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**INAUGURAL MEETING
NATIONAL BIOETHICS ADVISORY COMMISSION**

**October 4, 1996
8:39 a.m.**

**National Institutes of Health
9000 Rockville Pike
Building 31
Conference Room 10
Bethesda, Maryland**

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1 P R O C E E D I N G S

2 CALL TO ORDER, OPENING REMARKS AND INTRODUCTIONS

3 DR. SHAPIRO: Colleagues, let me turn to Ms.
4 Rachel Levinson, who is the Designated Federal Official, to
5 open today's meeting.

6 MS. RACHEL E. LEVINSON

7 DESIGNATED FEDERAL OFFICIAL

8 MS. LEVINSON: Good morning and welcome to the
9 inaugural meeting of the National Bioethics Advisory
10 Commission. My name is Rachel Levinson and I am the
11 Assistant Director for Life Sciences at the Office of
12 Research, Technology and Policy in the Executive Office of
13 the President.

14 As Dr. Shapiro mentioned, I will serve as the
15 Designated Federal Official for this commission for today.
16 That means that I carry out certain administrative duties
17 under the Federal Advisory Committee Act.

18 President Clinton established the National
19 Bioethics Advisory Commission on October 3rd, 1995, by
20 virtue of Executive Order 12975. In that order he
21 designated Secretary Shalala of the Department of Health
22 and Human Services to carry out administrative duties under
23 the Advisory Committee Act.

24 There are also, I should mention, several other
25 executive branch agencies that worked very hard on behalf
26 of the President in making the commission a reality today.

1 Those include the Department of Energy, the Department of
2 Defense, NASA, Veteran's Administration, National Science
3 Foundation, Department of Justice, and others who have
4 worked very hard to support this organization.

5 I should also mention the fact, very important
6 fact, that this commission would not be a reality without
7 the support and commitment of several members of Congress,
8 particularly Senator Mark Hatfield, who will be missed very
9 greatly in Washington; Senator Kennedy; Senator Moynihan;
10 Senator Glenn; Senator Stevens; and Congressman Markey.

11 Dr. Gibbons will be here later this morning and
12 he will give you a great deal more information about the
13 background on the National Bioethics Advisory Commission.

14 I just want to say that this is personally a
15 great day. I am sure it is for many people who helped to
16 work to make this come to pass. And I am very pleased to
17 turn the meeting over at this point to the Chairman of the
18 National Bioethics Advisory Commission, Dr. Harold Shapiro.

19 DR. HAROLD T. SHAPIRO

20 NBAC CHAIR

21 DR. SHAPIRO: Thank you very much. We will be
22 introducing ourselves in just a few moments, but let me
23 introduce myself to begin with. I am Harold Shapiro,
24 President of Princeton University, and it is a very
25 exciting moment for me to serve as chair of this committee
26 and to start off this inaugural meeting.

1 One of the great things about beginnings is
2 that everything seems possible. That is why I always like
3 the beginning of each academic year. It seems that all the
4 things we failed to do last year could easily be done this
5 year. We, of course, as Dr. Gibbons will talk about later
6 on this morning, stand in a long stream of groups that have
7 gotten together to focus on these issues, and of course our
8 own work will depend an enormous amount on the scholarship
9 that has gone on throughout this decade, a good deal of it,
10 by members who are sitting around this table. So it is
11 always great to be somewhere at the beginning and I am very
12 pleased to be here today.

13 I, also, like the idea of these types of
14 commissions because they seem to me to be both very old and
15 very new at the same time and I am always attracted to the
16 things that have that kind of mixture to them. They are
17 very new for all the obvious reasons that all of us talk
18 about each day, namely science and technology is rapidly
19 advancing and opening new ethical horizons for us all to
20 deal with and so on. Our moral sensibilities are changing
21 and redefining themselves day by day, week by week, and so
22 on. Those issues, of course, are very critical for us to
23 deal with and will be the center, I presume, of much of our
24 work.

25 But they are very old in another way. In the
26 sense that societies have worried from the very beginning

1 how to deal with new knowledge and what it meant. I do not
2 know how many other members of the commission have spent a
3 small part of their lives, as I have, studying Greek myth.
4 But if you look at the very earliest Greek myths, it deals
5 in many ways with the exact same problem we are going to
6 deal with here if you at least take a broad enough
7 perspective on it.

8 Namely I will just give you one example. For
9 those of you who are interested in this arcane subject I
10 will talk to you some other time about it. But if you
11 remember the myth about the Greek ship Argo, the first
12 boat, and people wondered as these wonderful new horizons
13 were opening up, new interactions between people that were
14 not possible are not possible, when at the very same
15 moment, the very same breath, they worried about the trees
16 that had to be cut down to build the ship and wondering
17 whether these new horizons would take away the moral limits
18 that people accepted for so long in the nature of their
19 community and so on. And there are many other Greek myths
20 which have similar stories.

21 So the work of this commission really fits into
22 that model at least in my own way of thinking about it.
23 These are very old problems, very new problems and I hope,
24 of course, that our own deliberations will make an
25 important contribution to the continuing national discourse
26 on the issues that we will be discussing.

1 We will have an opportunity later on this
2 morning for commission members to address directly what
3 they feel should be the agenda of the commission, the kind
4 of approach we should have to particular problems, and what
5 issues we may want to take on as we begin our work. We
6 can all talk at that time, those of us who wish to who have
7 an opinion on that issue, about what kind of structure and
8 ideas should give light to our work. So I will not speak
9 about those issues now. I will wait to discuss that with
10 my colleagues later on this morning.

11 I thought it would be helpful if we began our
12 session simply by introducing ourselves both to each other,
13 although I know many of you are very good friends and long
14 time colleagues, and to others who may want to know who
15 these commissioners are. Now in introducing ourselves, we
16 ought to strike some nice balance between excess modesty
17 and long speeches. I think it is important to use a few
18 sentences at least to describe your interest and your
19 backgrounds in a way that is informative. Of course, our
20 CVs are available for those who want more detail about just
21 who we are and what we are like.

22 I noticed in this morning's paper something
23 very directly related to CVs that came from a rather
24 surprising source. I do not know how many of you have seen
25 this morning's Washington Post, but somehow they put the
26 Nobel Prize in Literature in the "Style" section.

1 (Laughter.)

2 Now those of you who are Washington natives may
3 have some comment about this, if this is typical. But as
4 you know, a Polish poet won it and they spend the first
5 part of this article helping me, which was very helpful
6 incidentally, learning how to pronounce her name, which I
7 did not know how to -- which I did not know how to
8 pronounce. Szyborska. Szyborska. But they quote a
9 poem about CVs. I do not know why they picked out this
10 poem but I just want to give you a few lines from the poem
11 that is quoted in the Washington Post today. She is
12 talking about CVs.

13 It says, "Landscapes are a place by addresses.
14 Shaky memories give way to unshakable dates. All of your
15 loves mention only the marriage. Of all your children,
16 only those who were born."

17 And so as you think about what you might say in
18 a few minutes, you might keep some of those ideas in mind.

19 What struck me also as funny -- not funny, but
20 just wonderful about this report, I do not know how many of
21 you know that the Nobel Prize in literature is given by the
22 group in -- I believe a permanent group in Stockholm. The
23 Academy, who numbers perhaps 15 members in the Academy,
24 their Academy there. And I have often thought how
25 wonderful people -- 15 people think they can choose this
26 every year who keep on having confidence in themselves, and

1 I thought that was wonderful. But in describing the
2 winner, they described her as the Mozart of poetry,
3 elegance of language with the fury of Beethoven. So, I
4 guess, they think they are just as good in music as they
5 are in poetry.

6 (Laughter.)

7 But in any case, with all that advice, why
8 don't -- I will skip Dr. Gibbons, who I will introduce in
9 just a moment, but why don't we introduce ourselves
10 starting with Rhetaugh Dumas, a former colleague of mine at
11 the University of Michigan.

12 DR. DUMAS: I am Rhetaugh Dumas. I am
13 currently the Vice Provost for Health Affairs at the
14 University of Michigan where I served 13 years as Dean of
15 the School of Nursing. I also had a period here in
16 government at the National Institute of Mental Health where
17 I was the Deputy Director for a while. I am very pleased
18 to have been chosen for this very important task and I am
19 looking forward to working with all of my colleagues around
20 the table here and others that will join in this work.

21 DR. SHAPIRO: Thank you.

22 DR. EMANUEL: I am Ezekial Emanuel. I am
23 currently an Associate Professor of Social Medicine and
24 Medicine at Harvard Medical School. I am a medical
25 oncologist and I work on breast cancer but most of my
26 research is related to ethical issues. I work on "end-of-

1 life" care issues, issues related to allocation of
2 resources and managed care. I am also looking forward to
3 this with a number of colleagues I know and getting to know
4 new people as friends.

5 DR. FLYNN: I am Laurie Flynn. I am the
6 Executive Director of the National Alliance for the
7 Mentally Ill. We are a grassroots family and patient
8 organization. We are very supportive and very interested
9 in research issues and hundreds -- hundreds of our members
10 are, in fact, research subjects in a variety of medical
11 centers and research facilities around the country.

12 I am also the mother of a young woman with a
13 severe psychiatric disorder who has participated in several
14 clinical trials. So this is an issue of both professional
15 and personal interest to me and I am delighted to be able
16 to participate in this challenging task.

17 DR. SHAPIRO: Thank you. Steve?

18 MR. HOLTZMAN: Good morning. I am Steven
19 Holtzman and I am currently the Chief Business Officer of
20 Millennium Pharmaceuticals in Cambridge, Massachusetts, a
21 genetics genomics company, where I have been for about two-
22 and-a-half years. Previous to Millennium, I was a founder
23 of a company called GMX, another biotechnology company
24 engaged in transgenic animal research where I was President
25 of GMX biotherapeutics. I am trained neither as a
26 scientist nor as a businessman but, in fact, as a

1 philosopher in both undergraduate and graduate training,
2 and it is a delight to be here.

3 DR. SHAPIRO: Thank you very much. Ms. Kramer?

4 MS. KRAMER: I am Bette Kramer. I am from
5 Richmond, Virginia. I was the founding -- the founder and
6 the first President of the Richmond Bioethics Consortium,
7 which is a citizen based group seeking to expand the
8 education in the field of bioethics. We work primarily
9 with health care institutions helping them establish their
10 ethics programs and educate their ethics committees, and
11 with the general public hoping to provide education and the
12 issues for them. I am delighted to be here.

13 DR. SHAPIRO: Bernard?

14 DR. LO: I am Bernard Lo. I am also delighted
15 to be here. My son thinks I work for United Airlines, Seat
16 7A.

17 (Laughter.)

18 DR. LO: I am Professor of Medicine at the
19 University of California, San Francisco, where I practice
20 internal medicine and I direct the program on medical
21 ethics there. A lot of my work has been on end-of-life
22 decision making and ethical issues regarding HIV infection.

23 DR. SHAPIRO: If I could just interrupt here,
24 so we can treat these meetings as informally as possible, I
25 would prefer, if people do not object, to referring -- to
26 refer to each other by first names. So if you have any

1 preference for how we do that, whether we use Bernard or
2 Bernie --

3 DR. LO: Bernie.

4 DR. SHAPIRO: Bernie. I guess we can find out
5 Lawrence and Larry in a minute, but that would be helpful
6 for you to say so.

7 DR. MIKE: I am Larry Mike, currently
8 Director of Health for the State of Hawaii. Unlike Dr. Lo
9 who flies -- it sounds like it is kind of sort of first
10 class, my seat is 26H.

11 (Laughter.)

12 DR. MIKE: So clearly I represent the common
13 people.

14 (Laughter.)

15 DR. LO: No, this is just frequent flier miles.

16 (Laughter.)

17 DR. MIKE: I used to be the Scientific
18 Director of ALGEN (?) and a bureaucrat. I am actually a
19 long time policy analyst in disguise. I spent 17 years in
20 Washington at CDC, most of it working for Jack when he was
21 at OTA. I still have a house on Capitol Hill and a farm in
22 Berkeley Springs, West Virginia, so I have not lost my
23 ties. I am basically a policy analyst but right now I am
24 enjoying myself in the worst budget crisis in Hawaii, but
25 dealing with health issues in Hawaii.

26 And I should say that when I first came to

1 Washington in 1972 for the old National Center for Health
2 Services Research and Development I went off to a meeting
3 at Hastings-on-Hudson, which turned out to be one of the
4 very first meetings of the bioethics community, and I
5 remember the most inspirational speech was by Andre
6 Helliger (?), who told the group how to get federal funds,
7 and look at this.

8 (Laughter.)

9 DR. MURRAY: That is a tough act to follow. I
10 am Tom Murray. I am the Director of the Center for
11 Biomedical Ethics at the School of Medicine at Case Western
12 Reserve University in Cleveland, Ohio.

13 My training actually was as a experimental
14 social psychologist but I got interested in the ethics of
15 human subjects research. My interests have broadened
16 considerably since then and I have written about a lot of
17 areas but lately I have been writing a good deal about
18 genetics and am very interested in the ethical implications
19 of the Human Genome Project and modern genetics more
20 broadly. Also, parents and children are an issue that
21 interest me very much and having four children of my own I
22 have a lot of personal experience with relationships
23 between parents and children.

24 DR. SCOTT-JONES: I am Diane Scott-Jones. I am
25 a Professor of Psychology at Temple University. I am a
26 Developmental Psychologist by training and unlike many of

1 my colleagues here I have not undertaken a study of ethics
2 as separate from my own conducted research. So my interest
3 in ethics is in the way we incorporate it into our every
4 day research activities and into the training of our
5 graduate students.

6 I am editor of the Journal of Research on
7 Adolescents so I am concerned about ethics as it has been
8 conducted in research that we publish in the journal. I
9 recently participated in the revision of the "Ethical
10 Principles" for the American Psychological Association and
11 the American Psychological Society. So I am interested in
12 how we use ethics in research on an every day regular basis
13 and I am delighted to be here and be a part of the
14 commission.

15 PROF. BACKLAR: I am Patricia Backlar and only
16 my mother calls me Patricia. Everybody else calls me
17 Trish. I am a Senior Scholar at the Center for Ethics in
18 Health Care and a Senior Instructor in the Department of
19 Psychiatry at Oregon Health Sciences University. I am the
20 editor of the "Ethics Section" of Community Mental Health
21 Journal and write a great deal about ethical issues
22 concerning persons who have serious mental disorders and am
23 particularly interested in families and patients, and my
24 recent book is The Family Case of Schizophrenia.

25 I am hoping that this commission will be as
26 useful as it promises to be and I am very honored to be

1 able to participate in this work.

2 DR. BRITO: I am Arturo Brito. I am Assistant
3 Professor of Pediatrics at the University of Pediatrics at
4 the University of Miami School of Medicine. The majority
5 of my time is consumed by directing and also being the
6 pediatrician on the mobile clinic where we serve the under
7 served children of Dade County, meaning children who do not
8 have health care, which is a growing number on a daily
9 basis. And I, also, educate and train medical students and
10 residents in working in primary care and pediatrics with
11 the under served out in the community.

12 Currently my interests are working particularly
13 with the sickest of those sick children, the HIV infected
14 children, in the community that are not receiving the
15 services they need to be receiving. And I am, also,
16 involved in an NIH sponsored asthma study in the provision
17 of preventive asthma care to under served asthmatic
18 children in the community.

19 I am very pleased and excited about being on
20 this committee. I have not had a lot of experience with
21 the research aspect of the ethical -- the ethic aspect in
22 the research area, but I feel I have a lot to offer because
23 I am out there in the community on a daily basis. I, also,
24 feel that working with the under served really gives me an
25 idea of where some of the areas we need to head in terms of
26 providing care in the appropriate manner and doing things

1 in an ethical manner in the research area.

2 DR. CASSELL: I am Eric Cassell. I am a
3 Professor of Public Health at Cornell and I am in the 36th
4 year of a practicing internist, which I think is really
5 long enough, and your offer set me free.

6 I like the first name thing. It is going to be
7 a group therapy session and no matter how upset we get we
8 will always use our first names.

9 I was practicing for ten years before I went to
10 the Hastings Center for the first time 25 years ago, which
11 transformed my life, and I have been a fellow and a member
12 of the Board of Directors almost ever since then. I am
13 primarily concerned with the care of the dying, the problem
14 with suffering, and the evolution of our notion of the
15 patient and the person, who is that sick person. And I
16 think that that is what we are going to be facing always,
17 is the idea of the evolution of everything, but this is
18 where everything is in process and always in process, and
19 we are a part of that process, and we have a chance to not
20 only be part of the process, but have a big effect on it.

21 PROF. CAPRON: I am Alex Capron from the
22 University of Southern California, and my first wish is
23 that whoever is controlling our sound system will eliminate
24 the echo that we seem to be boomed.

25 Coming over here this morning, I guess it was
26 either Eric or Alta asked me if I had a sense of deja vu.

1 I have been involved with these efforts of public bioethics
2 for 20 some years. I was a consultant to the National
3 Commission for the Protection of Human Subjects of
4 Biomedical Behavioral Research, which operated under an act
5 of Congress from '74 to '78, and was based in the
6 Department of Health, Education and Welfare.

7 I served as the Executive Director of its
8 successor body, the President's Commission for the Study of
9 Ethical Problems in Medicine and Biomedical Behavioral
10 Research. I must say that when Congress names things they
11 tend to be longer names than Executive Orders.

12 And then served as Chair of the successor body,
13 the Biomedical Ethics Advisory Committee to the United
14 States Congress, which spent its life as an embryo and then
15 in a deep freeze when the board to which we reported fell
16 to disarray and loggerheads, and our statute lasted a lot
17 longer than our meetings.

18 I have been very concerned as a person, who
19 believes that these efforts can be worthwhile, to see that
20 something else happened and I am pleased to have the
21 privilege of serving with all of you.

22 PROF. CHARO: I am Robin Alta Charo. Only my
23 mother calls me Robin. I hope you will call me Alta. By
24 way of minor correction, I am merely Associate Professor of
25 Law and Medical Ethics at the University of Wisconsin with
26 appointments at the Schools of Biomedicine.

1 I have worked previously with the Federal
2 Government. Most recently on the NIH embryo panel with
3 Bernie Lo and Tom Murray. I also had the opportunity to
4 spend a year with AID learning about international family
5 planning and two years with the late great Congressional
6 Office of Technology Assessment.

7 The areas I have focused on so far in my
8 academic life beyond the environmental material I worked on
9 early has really been in the area of reproductive health
10 and genetics with a substantial interest in the politics of
11 biomedical research and biomedical ethics. The emphasis
12 continues to be on international issues and currently I am
13 working on transitional health systems, particularly in
14 Cuba.

15 And to beat Larry Mike in his representation
16 of the common people, I worked my way through college half
17 time cleaning bathrooms, but half time being a research
18 subject in just about every science experiment that went on
19 between 1975 and '79, so do not trust the data from those
20 years.

21 (Laughter.)

22 DR. CHILDRESS: I am Jim Childress from the
23 University of Virginia where I teach in the Department of
24 Religious Studies in the Medical School and co-direct the
25 Virginia Health Policy Research Center. Much of my writing
26 has been in the area of biomedical ethics where I have

1 emphasized theory and method as well as covering several
2 practical areas.

3 I approach this committee with a great deal of
4 anticipation and hope and having served as Alex only on the
5 last committee that did not go very far, I have a great
6 deal of confidence that this one will. I look forward to
7 working with all of you.

8 DR. COX: I am David Cox. I am Professor of
9 Genetics and Pediatrics at Stanford University School of
10 Medicine and I am co-director of the Stanford Human Genome
11 Center there.

12 What gets me out of bed in the morning is
13 figuring out how to apply genetic knowledge to the human
14 condition and, in particular, to apply it to human health.
15 So I have been doing that for a long time and I will teach
16 genetics to anybody who will listen to me or try to at
17 least share genetic information.

18 But over the past three or four years in terms
19 of trying to do this with respect to human health, I have
20 realized that genetics can really be a double edged sword.
21 So I have gotten particularly interested in the so-called
22 ethical issues of genetics but it is really how genetics
23 interfaces with society. So I am particularly interested
24 in that. I am interested in how genetics interfaces with
25 all the other aspects of society. So society not
26 circulating around genetics but genetics circulating around

1 society.

2 I am real interested in this commission and
3 real interested in being able to, as some people have said,
4 be successful and get some practical product.

5 DR. SHAPIRO: Okay. Thank you very much.
6 Well, once again let me just express my own gratitude to
7 everyone for agreeing to serve. I consider each person's
8 decision to say yes when asked an act of generosity for
9 which we should all be grateful and I am certainly very
10 grateful to all of you.

11 Before once again I turn to Dr. Gibbons, let me
12 just introduce some members of the staff who are here and
13 perhaps they could raise their hands as I introduce them.

14 First of all, our Acting Executive Director,
15 Bill Dommel, who is sitting on my right. That is Bill.

16 Pat Norris, who is --

17 MS. NORRIS: I am here.

18 DR. SHAPIRO: -- over here is our
19 Communications Director.

20 Margaret Quinlan is our Program Administrator.
21 She has probably been in touch with all of you regarding
22 various kinds of arrangements. Margaret is also sitting
23 here.

24 Michael Nguyen is Administrative Officer. Michael is
25 sitting over in the corner there.

26 And, of course, Randy Hull and Mariann Rapp,

1 you may have met in the hallway and wing today, are helping
2 with a number of the administrative tasks.

3 So today let me also express my thanks to the
4 staff, who at least during the last few months had to work
5 some considerable uncertainty about just how things would
6 settle down here and I really appreciate their continued
7 devotion to this task.

8 So now it is my great pleasure to turn to Dr.
9 Gibbons. I think everybody around this table either knows
10 Jack well or knows about him. I am not going to spend a
11 lot of time introducing him. Sometimes in introducing
12 someone as well known as Jack I think it is only -- it is
13 not left to the human imagination to add any more
14 superlatives to what has already -- only God so to speak
15 can add to what has already been said about your work here.

16 But let me say in a personal sense that the
17 last four years have been years of great challenge in the
18 Congress in the area of support for science and technology,
19 broadly speaking more challenges in some areas than others,
20 but Jack has been a great source of support for all of us
21 and for all of the programs that we care about in those
22 areas and we are very grateful to you and thank you very
23 much for coming here this morning. Thank you.

24 Jack Gibbons

25 CHARGE TO THE COMMISSION

26 DR. JOHN H. GIBBONS

1 ASSISTANT TO THE PRESIDENT FOR SCIENCE AND TECHNOLOGY

2 DR. GIBBONS: Thank you, Harold.

3 My name is Jack Gibbons and I have worked for
4 several people around this table, Larry Mike and Alta
5 Charo and others in their past incarnation, which brought
6 me to Washington, called the Office of Technology
7 Assessment, which was conveniently eliminated by the 104th
8 Congress. And it reminded me that in Washington you can go
9 from "Who's Who" to "Who's That" very quickly.

10 (Laughter.)

11 I also come from Virginia where a sense of
12 place is important as well as family lines and the Virginia
13 aristocracy is known as a family that has been descending a
14 long time. I will not comment further on my background,
15 but I have been descending now for enough years to have a
16 sense of joy to see some of my colleagues from the past
17 reassembled in this activity and, also, to find new
18 colleagues that I have known and worked with, and those
19 that I am meeting today. And I cannot tell you how much
20 joy I have in the kind of quality that comes to this table
21 in response to the President's concern about establishing
22 this commission and how much weight now in a sense comes on
23 your shoulders much to the benefit, I think, of the
24 American people in the years to come.

25 This is a long awaited establishment. It has
26 had a gestation period that I think reflects the

1 seriousness given to the effort. It builds on a past of a
2 number of activities. I would remind you that it was in
3 the '70s that the Department of Health, Education and
4 Welfare housed the Commission on the Protection of Human
5 Subjects of Biomedical and Behavioral Research, and it also
6 at that time had an internal Ethics Advisory Board.

7 In the late '70s and in the early '80s there
8 was an important work of the President's Commission on the
9 Study of Ethical Problems in Medicine and Biomedical and
10 Behavioral Research.

11 Both of those committees and commissions
12 contributed, I think, greatly to our knowledge of both
13 biomedical and ethical issues and raised the national
14 consciousness and even the national consensus about some of
15 the thorniest issues of the day including defining death,
16 the splicing of life and other things. And we still
17 benefit from that path breaking work that was done.

18 I think, for example, if we had not come to
19 grips with the notion of defining death, where would we be
20 now in terms of bringing the issues faced by families and
21 the medical community?

22 In 1989, Larry remembers well and I think Alta
23 also, the OTA hosted for Congress a single meeting of the
24 Biomedical Ethics Advisory Committee, which was established
25 by Congress, but it sadly failed because of ideological
26 struggles both within the Congress and between various

1 stakeholders that were involved.

2 We hope that in creating this commission we
3 have learned from those experiences. I think it is
4 Confucius that once said, "The wise person learns from
5 experience, the wiser from someone else's experience." And
6 we hope that the integration of that past experience will
7 enable this commission to have an even better opportunity
8 to contribute to the nation's needs here.

9 We do envisage the NBAC, as it is called --
10 that is not a first name, but a short name, Harold -- as
11 the bioethics body of the '90s that can carry us in and
12 across the millennium assured that we are aware of and
13 adhering to the highest possible standards for the conduct
14 of human, biomedical and behavioral research. The
15 commission has not only the strong support of the
16 administration, but also, I am very pleased, the bipartisan
17 support of congressional leaders. This is important and
18 somewhat unusual in recent times.

19 Now I would like to read a message from the
20 Vice-President, and it goes as follows:

21 He unfortunately could not be with us, but you
22 know that his own background both in the House and
23 particularly in the Senate was one of great concern about
24 bioethics and retains that concern as does the President.
25 So the Vice-President is going to be particularly
26 interested in following this work, Harold, and checking

1 with us at a later time.

2 He said as follows:

3 "The inaugural meeting of the National
4 Bioethics Advisory Commission is, indeed, a momentous
5 occasion and one that the President and I have both looked
6 forward to with great anticipation. As you know, the
7 ethical conduct of research is an issue that has concerned
8 me deeply from my earliest days in Congress and the
9 President's leadership and support for this commission
10 reflects his commitment to the issue.

11 "We have not been alone in bringing this
12 commission to birth since the day one year ago that the
13 President called for its creation. The time and dedicated
14 efforts of many people have helped us reach this day and
15 lead us forward into an era in which justifiable pride in
16 our scientific achievements is not over shadowed by public
17 concerns about unethical research. We must be certain that
18 our ethics are as good as our science and your mission is
19 to ensure that we hear and understand what is necessary to
20 conduct biological and behavioral research in an ethically
21 sound manner.

22 "We are most grateful to have such a highly
23 esteemed group of experts and community representatives to
24 embark on what will be a challenging endeavor. On behalf
25 of the President and the American people I want to thank
26 you for your generous commitment to public service as

1 members of the National Bioethics Advisory Commission. "

2 Now I would like to add my special thanks to
3 those of the Vice-President to Harold Shapiro for agreeing
4 to serve as the first chairperson of the commission and I
5 also want to thank the members of NBAC for whom I know this
6 is an invaluable personal commitment and one that we will
7 all benefit from. But it is also important, I think, in
8 looking ahead to also look back and I should tell you just
9 a few things about the path that led to the creation of
10 NBAC.

11 In the fall of 1993 the Office of Science and
12 Technology Policy, which I also direct, was approached by
13 the National Institutes of Health and also the Department
14 of Energy and later other agencies, to consider the
15 establishing of a standing expert commission on bioethics.
16 In other words, a common need that spread across agency
17 jurisdictions. This proposal stemmed in part from a
18 congressional request that the NIH and the Department of
19 Energy establish some kind of an advisory capability on
20 genetic privacy.

21 We felt the need for a high level group to
22 serve as a shared resource to address broad issues and to
23 compliment the more specialized committees and boards that
24 are supported by the various mission agencies. So
25 beginning at that point I held conversations with other
26 agencies within the administration, with others in the

1 White House, and also with key members on both sides of the
2 aisle in the House and Senate, especially the Senate.

3 In August 1994 we published a draft NBAC
4 charter and called for public comment. This evoked at
5 least 80 responses. Of course many of the responders were
6 interested in serving as members of the commission. We
7 could have easily had a 300 member commission. But those
8 responses, I think, evidenced the continued active interest
9 of the American people that together we resolve -- we
10 address, anticipate and resolve bioethics questions.

11 The comments that we received were integrated
12 into the final charter for NBAC, which I signed this summer
13 at the same time the President announced his choice of the
14 members for NBAC. I cannot over emphasize the point that
15 the establishment of NBAC throughout this course of time
16 has been a fully bipartisan effort. Over these three years
17 I have had many conversations with colleagues on Capitol
18 Hill and I want to acknowledge their work and their
19 collegial spirit in bringing us together today, and their
20 continued avid interest in the procedure as it goes
21 forward.

22 In particular, though, Senator Hatfield,
23 Senator Kennedy, Senator Glenn, Senator Moynihan, Senator
24 Stevens, and Congressman Markey have particularly shown
25 long-standing interest and commitment to the concept of a
26 National Bioethics Board and they have shown great patience

1 in helping us work through the process.

2 I spoke with Senator Hatfield yesterday as he
3 was departing to go back to Oregon and he expressed his
4 great gratification at the occasion of this first meeting
5 and his interest in continuing to stay with us. We could
6 not have achieved this time today without that kind of
7 long-term support.

8 Now during the months over which the mission
9 was refined by a variety of dialogues that went on two
10 events stand out in my mind that sort of put the commission
11 on the front burner of timeliness. One was reports of
12 experiments in human cloning, embryo cloning, and also
13 there was this Department of Energy's revelation of the
14 post World War II human radiation experiments and the
15 succeeding special commission that addressed those
16 questions since that time. Those events and some others,
17 but particularly those two, I think, underscored the need
18 for the administration and for the Congress to have advice
19 and recommendations concerning ethical conduct of human,
20 biological and behavioral research.

21 The President then decided that the issues
22 could not be resolved on an ad hoc basis, that we needed an
23 effective forum for open and informed discussion on the
24 sensitive issues that face the American people.

25 For example, questions such as how do we ensure
26 the well-being, the autonomy and the privacy of those

1 individuals who are first to undergo the newest forms of
2 medical treatment?

3 What, for instance, is the appropriate use of
4 genetic information? An issue that many of you have
5 wrestled with extensively.

6 How do we know when it is the right time to
7 administer genetic tests?

8 Who should be allowed access to the results of
9 such tests?

10 These were the first two classes of issues that
11 the President has charged NBAC to take up. It is important
12 to note incidentally that the commission has been granted
13 considerable leeway in determining its own agenda, taking
14 into account suggestions submitted by the executive branch
15 agencies, by the Congress and by the public-at-large, and I
16 think this is another mechanism by which we can strengthen
17 the commission's role as a forum for gathering and
18 exploring a wide variety of perspectives.

19 Then in announcing the establishment of NBAC
20 about a year ago today the President also charged the
21 executive branch agencies that are involved in the conduct
22 of human subject research to review their ongoing
23 activities and to identify gaps or weak points in the
24 system for protecting the rights and the well-being of
25 research subjects. The results of those reviews are to be
26 delivered to Chairman Shapiro today for your examination.

1 We certainly see the commission as a forward
2 thinking body looking at current and also anticipating the
3 kinds of future research to be supported or conducted by
4 the Federal Government. I hope you will also serve as a
5 forum in which individual voices can be heard, the
6 government and the public can be better informed, and our
7 policy choices from that will be better defined.

8 One thing occurred to me on the way over this
9 morning that I had not really thought about but it seems to
10 me may well be a question you want to address, we are now
11 trying to balance the Federal Budget over a period of time
12 much shorter than the time it took us to triple the
13 national debt in the last dozen or so years. But we are
14 trying to balance the budget by taking funds from only 18
15 percent of that budget and that 18 percent includes all
16 federal research and development. And it seems to me that
17 there well may be ethical issues about the choice of the
18 use of these resources as we have an increasingly difficult
19 time in making ends meet across these.

20 Of course, NBAC is not a regulatory committee
21 and it will not review or approve individual research
22 projects. Rather it will define and identify broad over
23 arching principles to govern ethical conduct of research.
24 And, as I mentioned a while ago, we can learn from
25 experience but preferably someone else's experience. But
26 we can learn from past experience how to avoid mistakes and

1 abuses.

2 One example I think I mentioned earlier was
3 that on the work on human radiation experiments. I worked
4 with the President to establish his advisory committee on
5 human radiation experiments early in 1995 and we are in
6 debt to that commission for the enormous efforts that they
7 made in examining the record and making recommendations to
8 the President. I cannot and do not propose to review all
9 the actions today that have been taken or will be taken as
10 a part of that process, but let me underscore that the key
11 departments, that is Department of Defense, Department of
12 Energy, and HHS, have made great strides in uncovering and
13 declassifying the historical record of those events.

14 Now that committee raised certain broad issues
15 about the ethical conduct of human subject research and the
16 effective oversight of that research and I think these are
17 issues that hopefully NBAC may wish to respond to. I
18 would only mention three of those issues.

19 First, the commission calls for a continuing
20 public forum on the interpretation and application of
21 ethics rules and principles for the conduct of human
22 subject research. We would like to see NBAC play a role in
23 fulfilling that need. That is clearly part of your
24 charter.

25 Second, the commission recommended that efforts
26 be undertaken on a national scale to ensure the centrality

1 of ethics in the conduct of human subjects research. It is
2 my understanding that 19 federal agencies and departments
3 have submitted reports to you for your review or will be
4 today. That is an extraordinary number of departments. It
5 shows in a sense the ubiquitous nature of these issues and
6 the need for a central intelligence about this question
7 that you constitute. I would encourage you to engage those
8 19 agencies individually as well as in a group to help
9 ensure that we meet uniformly high ethical standards for
10 human subjects research across the Federal Government.

11 And the third is that the commission recommends
12 changes to the Institutional Review Board, the IRB system,
13 that helps ensure protection of human subjects in federally
14 sponsored research. We would hope that NBAC will examine
15 the issue of IRBs and advise the administration on possible
16 improvements that can be made to that system. I can assure
17 you that you are going to have the full support of
18 government agencies involved in human subjects research as
19 reflected, I think, in today's agenda with presentations by
20 Francis Collins and Gary Ellis.

21 Well, finally, I think you have embarked on a
22 mission of the utmost importance to the President and to
23 the country. To me, this is democracy at work. We are
24 maintaining our ideals of research for a more perfect union
25 in an age that is dominated by science and technology. The
26 issues that you face will be difficult. They are worthy of

1 your wisdom. Especially because we will be dealing with
2 values as well as hard facts, opinions, various opinions
3 here will undoubtedly differ. That is expected and it can
4 be a sure sign of health.

5 In borrowing from Thomas Jefferson, I would say
6 that in the right forum, the right context and the right
7 spirit, "Freedom rings where opinions play." And I want to
8 add my gratitude to that expressed by the Vice-President
9 and thank you for accepting this challenge. I also want to
10 thank the members of the public so broadly represented here
11 this morning -- I do not think we have a seat left in the
12 house here -- for your participation and encourage you to
13 remain involved in this commission's activities.

14 Thank you very much. I am delighted to be with
15 you.

16 DR. SHAPIRO: Well, thank you very much. I
17 think that Dr. Gibbons can stay at least a little while for
18 any questions that the members might have.

19 Let me just say a bit of logistical advice.
20 Apparently we also have people in an overflow room. So if
21 you could speak as close to the microphone as possible it
22 would make it somewhat easier for them to hear our
23 proceedings here. So if you do wish to speak, and I will
24 open the floor in a second, just try to pull that -- grab
25 the microphone and pull it closer to you.

26 Are there any questions for Dr. Gibbons from

1 members?

2 DR. MURRAY: I have one.

3 DR. SHAPIRO: Yes.

4 DR. MURRAY: Jack, there is -- thanks by the
5 way, that was eloquent and left me feeling both -- mainly
6 awed, but we will do our best.

7 There is an ambiguity in our charge that I
8 think I -- I know -- but I think there is also a resolution
9 for it in the charge. The ambiguity is that there is an
10 emphasis on the ethics of human subjects research which is
11 -- which comes up repeatedly and it was in the Vice-
12 President's statement as well -- yet our charge, I think,
13 while it includes that as a major portion, it seems
14 significantly broader than that. And, in fact, quite open
15 as to the implications of biomedical research.

16 So I would like to take it in that broader
17 sense. Am I taking correctly if I do so?

18 DR. GIBBONS: Tom, I think the ambiguity is
19 purposeful. We did not want to give a charge to the
20 commission that would be so broad that you would be totally
21 swamped by the issues brought before you. We tried to help
22 define a space that was manageable and yet at the same time
23 we wanted to bow to the wisdom that we know is imbedded in
24 this group. So we provided words that give you the option,
25 if not the implicit charge, to go where the important
26 issues take you. We would hope that that combination of a

1 focus on human subject research, but the broader -- but
2 taken in a broader context of biomedical ethics would allow
3 you the freedom to move where you need to move.

4 DR. SHAPIRO: Thank you.

5 Any other questions this morning for Dr.
6 Gibbons?

7 Jack, let me thank you very much for coming.
8 We appreciate all of your own work in helping get NBAC
9 established. We know it would not have happened without
10 your efforts and the efforts of your colleagues. So we do
11 want to thank you. Thank you very, very much.

12 DR. GIBBONS: I also hope that your laryngitis
13 does not consume you, but --

14 DR. SHAPIRO: There are enough doctors around
15 this table and maybe I can get some advice. It is not an
16 ethical issue.

17 (Laughter.)

18 Any final questions, comments?

19 Okay. Let's turn to the next item on our
20 agenda. We have some presentations from the Congress from
21 a number of staff members who are here.

22 I believe Aaron Menikoff is here from Senator
23 Hatfield's office.

24 MR. MENIKOFF: Yes.

25

26

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1 PRESENTATIONS FROM THE CONGRESS

2 DR. SHAPIRO: Aaron, welcome. It is very nice
3 to have you.

4 MR. AARON MENIKOFF

5 LEGISLATIVE ASSISTANT TO SENATOR MARK O. HATFIELD

6 MR. MENIKOFF: Thank you. Well, it is an honor
7 to be here this morning. I know that Senator Hatfield is
8 certainly rejoicing and breathing a sigh of relief right
9 now. He is rejoicing because you are meeting and I think
10 he is breathing a sigh of relief because you are meeting
11 before he is retired.

12 (Laughter.)

13 So he sends his greetings. He is sorry he
14 cannot be here but he wishes you all well.

15 I would like to thank Dr. Gibbons and Dr.
16 Shapiro, and you, commissioners, for allowing me to be here
17 today.

18 I see Patricia Backlar, who I had the
19 opportunity to meet in Oregon a few weeks ago and it was a
20 pleasure.

21 I know that there is going to be a bright and
22 productive future for the National Bioethics Advisory
23 Commission and I am just here to try, I think, and give you
24 a little bit of a picture of what Senator Hatfield has been
25 thinking about over the course of the last several years as
26 he has been longing for this commission.

1 It was in the first session of the 103rd
2 Congress that Senator Hatfield, along with Senator Kennedy,
3 introduced a bill to establish the National Bioethics
4 Advisory Commission legislatively very similar to the one
5 you are now representing. At the time several issues were
6 brought up that it was thought could be tackled:

7 Health care reform, the whole idea of scarce
8 resources and federal dollars, that was an ethical issue.

9 Genetic privacy and issues of
10 nondiscrimination, that was an issue several years ago as
11 well.

12 Human growth hormones, an example of something
13 that NIH is doing research on. That reached the Hill, that
14 was an example of one of these issues that had been brought
15 up.

16 Surrogate motherhood, the Supreme Court refused
17 to hear the case of a surrogate mother who sought to
18 maintain the custody of the child that she had carried for
19 nine months. So that decision went to a lower body and
20 there were some ethical issues about how something like
21 that is being decided at that level.

22 Gene therapy protocols, with the RAC changing
23 that has become very public this year, but the issues
24 surrounding genetic -- gene therapy protocols has been
25 around certainly.

26 And then something new and dear to Senator

1 Hatfield's heart, patenting life, human and animal patents.
2 There are currently 27 animal patents in existence in the
3 United States and 511 animal patents pending. And one of
4 the reasons Senator Hatfield has been pushing for a
5 National Bioethics Advisory Commission is to be able to
6 look into that and have some of these decisions or have
7 some of these thoughts not completely made at the Patent
8 and Trademark Office, but let's have somebody think about
9 it and see if it is the right thing to do.

10 So those are just a few of the issues that
11 Senator Hatfield was thinking of and I think that some
12 congressional members were thinking of a few years ago.
13 And I think it was the existence of those issues that got
14 into play the desire to look into it more with this report.
15 I think you all have this Office of Technology Assessment,
16 Biomedical Ethics and U.S. Public Policy, and it was a
17 background paper that Senators Hatfield and Kennedy both
18 asked to look into the history of the National Bioethics
19 Advisory Commissions that we have had that Dr. Gibbons
20 touched upon. It is a wonderful history and I certainly
21 hope that everyone has read it. It is out of print so save
22 your copy.

23 In this report there are six suggestions, six
24 issues, six concepts that the writers of this report were
25 concerned that a National Bioethics Advisory Commission, if
26 we are to have another, must somehow address if it is to be

1 successful or at least if it is to be more successful than
2 the commissions that we have had in the past. And I would
3 like to share what I think would be Senator Hatfield's
4 three most important and pertinent of these suggestions
5 with you now and certainly the remaining are certainly not
6 important.

7 The first I would bring up would be the mandate
8 of NBAC and the second would be the targeted client of your
9 work, and the third would be the budget.

10 Well, first the mandate, and that is something
11 that was brought up in a question by Dr. Murray right
12 before I came up. NBAC cannot be charged to address every
13 issue that is out there, every ethical issue that is out
14 there, and if you choose to address issues surrounding
15 health care reform with the 105th Congress you might be
16 spending every hour of the day thinking about health care
17 reform. I do not know if that is what you want to do.

18 Senator Hatfield is strongly supportive of NBAC
19 carefully addressing human subject research, genetic
20 privacy and nondiscrimination, and gene patenting. So
21 clearly these are the mandates that you have already been
22 given, but I think the OTA report and Senator Hatfield's
23 interest would both say, 'You can only do so much with what
24 you have, do it well,' and the way to do that would be to
25 limit the issues that you cover.

26 The second issue, the targeted client. I think

1 the targeted client of the National Bioethics Advisory
2 Commission by very definition is broad. It is the National
3 Bioethics Advisory Commission. It is not held in Portland,
4 Oregon. It is not held overseas. It is here in
5 Washington, D.C. And so I would think that the targeted
6 client would be the nation. Now clearly you all have been
7 deposited in the Department of Health and Human Services,
8 but you do have bipartisan support from the United States
9 Congress and so the United States Congress should be a
10 targeted client.

11 I think perhaps more importantly when thinking
12 about the targeted client is thinking about all the
13 commissioners we have here. I do not know if we have the
14 eighteenth, I know of seventeen commissioners. Each of you
15 and those ten, twenty, thirty, forty, fifty other
16 individuals who have a passion for the things that you are
17 going to be talking about for at least the next two years,
18 the whole purpose behind Senator Hatfield introducing
19 legislation was the fact that there was not a dialogue.

20 There was just not a dialogue into the issue of
21 whether or not we should patent animal genes and whether or
22 not genetic privacy was an issue. There was no dialogue.
23 So to his mind bringing you together here is not to select
24 seventeen of these 300 individuals to come and gather
25 together, you know, and make recommendations, but it is
26 rather, as important as the recommendations are, to go back

1 to your communities and go back to your professionals and
2 spread that dialogue out everywhere so someone in Portland,
3 Oregon is talking about the things that you are bringing
4 up. Someone in France is reliving the meetings that you
5 might have held.

6 I think that is extremely important and I think
7 when we do not know what the future is going to hold -- we
8 have four or five ethics advisory commissions that have not
9 continued -- we do not know what the future is so that is
10 to make sure as many people as possible are able to share
11 in what you are doing, especially the professionals who
12 will continue that discussion.

13 Well, finally, the budget. Dr. Gibbons is just
14 -- is extremely right. I think balancing the budget on 18
15 percent of our federal budget is -- and trying to reduce
16 the deficit on that 18 percent is not a wise thing and I
17 say that on behalf of Senator Hatfield who has said it many
18 times. Senator Hatfield would also underscore that 18
19 percent does not include the defense portion of the
20 appropriations budget. So to the extent that the
21 Department of Defense participates in human subject
22 research and other areas of ethical concern, as we think
23 about limited resources, please know that that hit is not
24 going on and that is something that Senator Hatfield has
25 brought up.

26 With regard to the budget again I was listening

1 to NPR this morning. Most of you were probably already in
2 this meeting. But that issue was brought up on national
3 radio that the budget is very important. If you do not
4 have adequate resources, you know, why continue to meet?
5 And you were referred to as a "Yugo," not exactly perhaps
6 the best analogy.

7 Well, one thing that Senator Hatfield has tried
8 to do and has succeeded in this past few weeks is to enable
9 this body to draw upon the resources of other federal
10 agencies. Every agency or at least most agencies have an
11 interest and probably an investment in some of the topics
12 that you are going to discuss. So it is not out of the
13 realm that they should contribute to these discussions
14 financially. So I think by having the other executive
15 agencies do that this Yugo can clearly be a Corvette but it
16 is certainly in the hands of the other agencies.

17 Well, that is all I wanted to cover for Senator
18 Hatfield. It is certainly his hope that, whether it is
19 through subcommittee meetings as many dream of the whole,
20 that the mandate that you do have that is clear you are
21 able to address expeditiously and that whether or not NBAC
22 is able to continue into the future a dialogue is promoted
23 here that is going to last for a long time.

24 Thank you.

25 DR. SHAPIRO: Thank you very much. Thank you
26 very much for being here this morning and please send our

1 thanks to the Senator for his work on our behalf. We want
2 to thank you personally for all the help you have been in
3 the last few months getting this together so thank you very
4 much.

5 MR. MENIKOFF: It has been my pleasure.

6 DR. SHAPIRO: Let me now call on Dr. Leonard
7 Weiss, who is right here, who is here to speak to us. He
8 is Minority Staff Director of the Senate Committee on
9 Governmental Affairs.

10 DR. LEONARD WEISS

11 MINORITY STAFF DIRECTOR, U. S. SENATE COMMITTEE

12 ON GOVERNMENTAL AFFAIRS

13 DR. WEISS: Thank you very much, Dr. Shapiro.
14 Let me begin by saying first I have a theory about how the
15 Polish poet ended up in the Style Section of the Post. In
16 this rather interminable election season many people are
17 treating the political news with a great deal of disdain so
18 they turn to the Style Section now for substance.

19 (Laughter.)

20 So putting the Nobel Prize for literature in
21 the Style Section is a strategy for maximizing the exposure
22 of the Washington community to high culture. It is,
23 therefore, a good thing.

24 (Laughter.)

25 DR. SHAPIRO: If I may just interrupt a moment.
26 There was a piece, I think, yesterday in the New York Times

1 saying the trouble with this age is image has replaced
2 substance. The Washington Post apparently has married
3 them.

4 (Laughter.)

5 DR. WEISS: That is right.

6 First, let me say I am -- as Dr. Shapiro said,
7 I am the Minority Staff Director for the U.S. Senate
8 Committee on Governmental Affairs whose ranking member is
9 Senator Glenn. I have worked for Senator Glenn for nearly
10 twenty years on a variety of issues and I am appearing
11 before you today on his behalf. He regrets that he is
12 unable to be here himself today, but I can assure you he
13 has a keen interest in your mission and is very supportive
14 and was very supportive of the creation of this body.

15 I appreciate the opportunity to appear before
16 you and to provide some background and suggestions for
17 further inquiry on one of your priority missions, the
18 consideration of the rights and welfare of human subjects.
19 At the outset I want to thank you for the work you will be
20 doing in advance. This work will have an impact on policy
21 debate and formulation of some very important issues for
22 the United States.

23 While I understand that your primary customers
24 are the President, the Cabinet Secretaries, and their
25 respective advisors, I would note that your charter
26 provides that you may accept suggestions from Congress on

1 issues to study. Your charter also requires that any
2 reports you make be provided to Congress and I would expect
3 that some time within the next two years our committee, the
4 Governmental Affairs Committee, will convene a hearing to
5 learn of the progress you have made in addressing these
6 important issues.

7 Our committee under Senator Glenn's leadership
8 has had a long-standing interest in this subject. In 1979
9 we held our first hearing on a bioethics related issue when
10 we examined the provisions for radiation protection of U.S.
11 residents by the Federal Government and the states.

12 Among the issues discussed in that hearing was
13 whether American soldiers were given adequate information
14 on the consequences of their purposeful exposure to
15 radiation stemming from atmospheric nuclear tests detonated
16 as part of a military exercise. As we have learned since
17 then, the risks that those soldiers incurred were higher
18 than what they were told and the U.S. Government has a
19 compensation program in place for those who suffered
20 illnesses that are deemed radiation induced.

21 An area of current interest for the committee
22 and to Senator Glenn is addressing the problems facing the
23 nation as a result of the end of the Cold War. For
24 example, over the last ten years the committee has held
25 dozens of hearings on the environmental safety and health
26 problems associated with the nuclear weapons complex. When

1 the Cold War radiation experiments began to receive renewed
2 attention the committee's previous work and experience made
3 this a natural one to investigate.

4 Since November of 1993 the committee has held
5 three hearings and commissioned three separate General
6 Accounting Office reports on issues associated with the
7 Cold War radiation experiments and the protection of human
8 research subjects. I will not go into detail on these
9 hearings and reports, but if you are interested we can
10 brief you on them at your pleasure.

11 The committee closely followed the
12 deliberations of the President's Advisory Committee on
13 Human Radiation Experiments and continues to track the
14 administration's implementation of the ACHRE
15 recommendations. As you may know, several
16 recommendations by this previous advisory committee have
17 been forwarded to you for deliberation and action, and I am
18 sure you will take that seriously and examine it with
19 dispatch.

20 Beginning with the first hearing that Senator
21 Glenn chaired on the civilian radiation experiments in
22 January of 1994 he expressed his concern about whether such
23 experiments could still happen today and whether
24 experimenting on someone without their informed consent was
25 "against the law." The answer, as you all probably know,
26 is "no, it is not against the law." The question of

1 whether the concept of informed consent should in some way
2 be codified in law is still very much open to debate and I
3 believe this issue is one in which you could play a key
4 role.

5 To help us address this question we asked the
6 General Accounting Office to examine the current framework
7 for protecting human research subjects. GAO reported their
8 findings to us in March of 1996 and the ACHRE also examined
9 this issue. While everyone agrees that the system is much
10 better than at any time in the past, both GAO and the
11 Advisory Committee on Human Radiation Experiments
12 identified weaknesses. In fact, the ACHRE report states,
13 "Our review suggests that there are significant
14 deficiencies in some aspects of the current system for the
15 protection of human subjects."

16 For example, not every agency has adopted the
17 common rule which requires informed consent and IRB
18 oversight. Research that does not receive federal funding
19 is not necessarily covered by this rule. The GAO found
20 that insufficient resources may be threatening the
21 integrity of the system.

22 Other weaknesses identified by the GAO include
23 time constraints and conflicts of interest within the IRBs,
24 the near absence of follow-up reviews by the IRBs, problems
25 associated with IRB oversight of multi-institution trials,
26 lack of resources for the Department of Health and Human

1 Services Office of Protection of Research Risks, OPRR's
2 placement within NIH's own bureaucracy, and finally gaps
3 that exist in the FDA's inspection of IRBs.

4 I have provided copies of the GAO report as
5 well as an article by Joseph Palka which appeared in the
6 Hastings Center report in May 1996 for your review. And in
7 addition the committee has queried four federal agencies
8 who have not adopted the common rule concerning their
9 reasons for not adopting the rule. The committee's
10 letters and the agency responses have also been provided to
11 you.

12 While the GAO report and the ACHRE study
13 provided some helpful insights into the current framework
14 for protecting human research subjects there is still much
15 that is not known. At the heart of the matter is whether
16 the current system of ensuring informed consent is adequate
17 enough to deter abuse.

18 If abuse occurs is there a sufficient mechanism
19 for punishing the abuser?

20 What about the adequacy of oversight by IRBs to
21 ensure that inappropriate research is not going on,
22 particularly if it is done within the context of government
23 sponsored projects that are classified?

24 And what about inappropriate procedures carried
25 out with an approved protocol? Just recently in New York a
26 young woman died from an overdose of lidocaine delivered

1 during a bronchoscopy in a medical experiment she
2 volunteered for and which was approved by the institution's
3 IRB.

4 Your committee could also be helpful to
5 Congress by analyzing the human subject research that
6 occurs outside the purview of the common rule. Such
7 research may include experiments that are sponsored solely
8 by the private sector. How expensive is this research?
9 Does it involve more than minimal risk?

10 As I mentioned earlier, some federal agencies,
11 including some that sponsor human subject research, have
12 not formally adopted the common rule. What would be the
13 cost and benefits of requiring all agencies to adopt the
14 rule and is cost/benefit analysis appropriate in this
15 context?

16 Another area of concern identified by our
17 committee is research involving persons with mental
18 illness. Medical ethicists and doctors agree that this
19 group of people deserve special attention beyond that
20 governed by the common rule. However, unlike other
21 vulnerable groups, including children, prisoners and
22 pregnant women, research on the mentally ill does not have
23 additional specific safeguards spelled out in the common
24 rule. For these vulnerable groups NIH promulgated
25 additional rules in the late 1980's. However, because of
26 opposition by at least some doctors and advocates of the

1 mentally ill that group did not receive additional
2 regulatory protection. Testimony presented to our
3 committee earlier this year raised a number of concerns
4 indicating that it may be necessary to revisit this
5 decision.

6 Finally, it goes without saying that
7 legislation, regulations and procedures can only take you
8 so far in protecting human research subjects. Ultimately
9 there must be a sense of responsibility on the part of the
10 researcher for the ethical treatment of research subjects.
11 Our universities, medical schools and teaching hospitals
12 have made strides in instilling this personal
13 responsibility through education but much more needs to be
14 done.

15 Your commission's input, advice and research
16 into all these questions, as well as the issues raised by
17 the Advisory Committee on Human Radiation Experiments and
18 the GAO, will be extremely helpful. As you begin your work
19 I believe it would be helpful to involve in your
20 deliberations those people who have been the subjects of
21 research without their informed consent like the subjects
22 of the radiation experiments. Their stories are a sobering
23 reminder that this is not an abstract issue.

24 I thank you for your time and I would be glad
25 to answer any questions you might have.

26 DR. SHAPIRO: Thank you very much for those

1 very thoughtful and very helpful remarks.

2 Are there any questions from members of the
3 commission for Dr. Weiss?

4 Excuse me. Just jump in if I do not see your
5 hand.

6 PROF. CHARO: Dr. Weiss, given the number of
7 items that you have identified that might be worth some
8 attention, I wonder if you would feel comfortable giving
9 any kind of rough prioritization to that list?

10 DR. WEISS: I would hate to try to do that off
11 the top of my head but I would be glad to provide a
12 prioritization for you in writing in the next day or two.

13 PROF. CHARO: That is more than I asked for.
14 Thank you.

15 DR. SHAPIRO: Thank you. That would be very
16 helpful and we would certainly all look forward to that.

17 Any other questions?

18 Well, once again let me thank you very much.
19 We appreciate you taking the time and please send our
20 thanks also to Senator Glenn for his continued interest in
21 this area. We appreciate it very much.

22 Okay. The next item on our agenda is a
23 presentation from Michelle Russell-Einhorn on issues of
24 conflict of interest. She has not yet arrived so we will
25 proceed and then turn to her when she does arrive. My
26 understanding is that she will be here in just a few

1 moments.

2 Let me begin with what obviously is a
3 miscellaneous item but something which I would appreciate
4 some help or any advice that the members of the commission
5 might have. We will be establishing shortly a web site for
6 the commission. It could, of course, have many functions
7 and it could serve as a communication device amongst us.
8 It could serve as a way of broadcasting information. It
9 could serve all kinds of functions as you all know since
10 that is, you know, what the flexibility of that kind of
11 technology really is. Tom has his own site, which I have
12 used, that people use quite a bit.

13 I really would like some advice from the
14 commission. It does not have to come right now. But I am
15 going to be thinking about that some in the next week or
16 ten days or so, and so any thoughts you might have as to
17 the kind of functions we should really focus on of a web
18 site I really would appreciate it.

19 It is something obviously we can change as we
20 go along. It is not set in stone in some way. But any
21 thoughts you have please let Bill know or myself know in
22 the next weeks. If anybody has any thoughts right now that
23 is fine, but this is really not an item for discussion that
24 has been scheduled, but it was a conversation that came up
25 this morning as I was talking to somebody from staff.

26 Does anybody have any immediate advice on this

1 issue?

2 Okay. For those of you who care about that or
3 look forward to it, let me know. You might be helpful in
4 designing this site. I may be a little bit optimistic but
5 I am hoping that we can get that up in the next few weeks.
6 I am told here at NIH there is some kind of czar in charge
7 of web sites which we have to go through. My only counter
8 threat is I will establish it myself at Princeton if we do
9 not get it done.

10 (Laughter.)

11 So we will have to see what happens.

12 Ms. Russell-Einhorn is here. Thank you very
13 much for coming this morning. We appreciate it very much.
14 Perhaps you could introduce yourself to the committee and
15 then we can proceed.

16 PRESENTATION ON ETHICS IN GOVERNMENT

17 MS. MICHELLE RUSSELL-EINHORN

18 ASSISTANT SPECIAL COUNSEL FOR ETHICS

19 MS. RUSSELL-EINHORN: Well, good morning. Can
20 everybody hear me all right?

21 First of all, let me introduce myself. I am
22 Michelle Russell-Einhorn and I am the legal ethics attorney
23 for the National Institutes of Health. I am actually a
24 member of the Office of the General Counsel, like Bob
25 Lanman, and I am based downtown in the Humphrey Building,
26 but I am here at NIH to work with the NIH community on

1 ethics issues.

2 I always think that it helps people to have a
3 general overview of how ethics in government works. The
4 Federal Government has a lot of statutes and regulations
5 that control ethics for Federal Government employees. In
6 the White House there is an attorney who is dedicated to
7 working on ethics issues and we deal with that person quite
8 frequently. There is also a separate government agency
9 called the Office of Government Ethics. A lot of people
10 think that I work for the Office of Government Ethics, but
11 I do not. I work for the Office of the General Counsel.
12 They are two different things, two different agencies.

13 The purpose of the Office of Government Ethics
14 is to administer and implement ethics in government to the
15 executive branch of the government, not the legislative or
16 the judicial side, but the executive branch of the
17 government. We work very closely with the Office of
18 Government Ethics.

19 Every agency, every executive branch agency is
20 required by statute to have an individual appointed as the
21 designated agency ethics official. We call that person a
22 DEO, like that song, you know, "De-0, de-0." And our DEO
23 for DHHS is Jack Kress and Jack Kress is downtown, and he
24 is my supervisor, and there are other ethics attorneys in
25 the downtown office, some who work primarily with other
26 components of DHHS, like the Center for Disease Control and

1 Food and Drug Administration. Because it is not a huge
2 community of people who do government ethics we are in very
3 close contact with our counterparts at the Interior
4 Department or the Commerce Department, or what have you.
5 Again I just think it is helpful to have a sense of how
6 ethics in government works.

7 Now why does this pertain to you? Because when
8 you come here and you serve as advisory council members, we
9 are very pleased that you have all agreed to do so, you are
10 what are called "special government employees." And that
11 means that for certain purposes you are government
12 employees. Many of the conflict of interest statutes and
13 regulations apply to you. They apply differently than they
14 would to me because I am what is called a "regular federal
15 government employee." But some of them still do apply to
16 you and they do have consequences, and it is very important
17 for you to understand what these restrictions are.

18 Let me start by giving you a little background
19 on the criminal statutes.

20 Bill, you can tell me if I am talking too long.

21 There is a set of criminal statutes --

22 DR. SHAPIRO: You are starting there just to
23 make us all feel relaxed.

24 (Laughter.)

25 MS. RUSSELL-EINHORN: There is a set of
26 criminal statutes that go back to the 1800's that we

1 commonly call the "Criminal Conflict of Interest Statutes"
2 and I will not go into specific detail except to just cite
3 a few of them.

4 One of them is the Criminal Conflict of
5 Interest Statute. Basically what this statute says is if
6 you work for the government and you work on something in
7 your capacity as a government employee you should not have
8 an outside financial interest in the same thing you are
9 working on for the government. So let me give you a
10 concrete example of how this affects our scientists.

11 If we have a scientist working on a
12 collaborative research agreement with Bristol-Myers, and
13 for some reason I always love to malign Bristol-Myers, and
14 that person owns stock in Bristol-Myers at the same time
15 that they are working here on a collaboration with Bristol-
16 Myers, you run into a problem with that criminal conflict
17 of interest statute.

18 Now how does that affect you? It affects you
19 in this way: You as special government employees are also
20 covered by this statute. If you have a spouse who works
21 for Bristol-Myers or a pension plan with Bristol-Myers, or
22 stockholdings from Bristol-Myers, and anything you do here
23 in your capacity as advisory council members might have an
24 impact on Bristol-Myers, you run up against that statute.

25 So what do we do? Well, that statute actually
26 allows us to issue something called a "waiver" and some of

1 you may have already seen your waivers.

2 Let me digress for a minute. You all filled
3 out something called a "financial disclosure" form. This
4 financial disclosure form is something that has to be
5 filled out by every special government employee who serves
6 in an advisory council capacity throughout the executive
7 branch. So everybody has to do these. These are actually
8 created by the Office of Government Ethics and approved by
9 OPM

10 What these forms do is they tell us what your
11 situation is so we can look at your financial situation and
12 see if you are going to run up against one of these
13 statutes like the Criminal Conflict of Interest Statute.

14 If it does, then we have a couple of choices.

15 We can issue you something called a "waiver"
16 and that waiver will say, "Well, so and so works for Yale
17 University and Yale University has an interest in what this
18 committee is working on." We will give this person a
19 general waiver which means they can work in any general
20 matter that might affect Yale University, but we are going
21 to disqualify them from anything that specifically and
22 uniquely affects Yale University. That is what those
23 waivers are about and we get our information for those
24 waivers from your financial disclosure forms.

25 It is very rare that we have come up against
26 financial interests that we have not been able to resolve.

1 I do not know that we have ever asked somebody to leave an
2 advisory council because we could not resolve a financial
3 interest. There is always some way to work it out, but I
4 think it helps if you understand why you are filling out
5 these forms, what we do with the information that you give
6 us, and what the waivers are that you are getting.

7 In addition, we also have a requirement that
8 thirty days before each meeting you will be sent an
9 addendum, something where you are going to have to clarify
10 whether your financial interests have changed. Now this
11 may seem onerous, but let me explain to you the real issue
12 here. You come in to a meeting and you own stock in Merck
13 and to your knowledge Merck has nothing to do with anything
14 that this committee is working on.

15 But let's say your Merck -- let's say you have
16 sold your Merck yesterday, right, and you decided you did
17 not want it anymore, you went and bought a different stock,
18 and that stock happened to be something that would be
19 affected by something you are dealing with, but we do not
20 know about it because it happened the day before the
21 meeting.

22 Well, as a practical matter we cannot keep
23 track of all your financial interests up to the minute.
24 The best we can do is thirty days before a meeting and that
25 is why we have that restriction because you may have new
26 financial interests on January 1st and they may change on

1 March 1st, and they may change on June 1st, and that is why
2 it is very difficult to only deal with these issues one
3 time a year instead of before each meeting.

4 Anyway, that is a little bit about these
5 financial disclosure forms and the criminal statute.

6 Let me just also mention there is another
7 criminal statute which is commonly called the
8 "Supplementation of Salary Statute." What it basically
9 means is that if you work for the government only the
10 government pays you for what you do. So this relates back
11 to the 1920's when government did not have a lot of money
12 and big companies would send people to Washington and they
13 would pay for these people to work for the government. The
14 government would basically pay them one dollar a year. You
15 ran into a lot of questions of divided loyalties and things
16 of that sort.

17 So now there is a statute that says you cannot
18 do that. You can only get paid by the government for what
19 you do. So if Dr. Fauci says, "Gosh, you know, I think I
20 want to leave, they are not paying me enough here" and some
21 outside organization says, "We really want you to stay at
22 the NIH and we are going to give you an extra \$50,000 a
23 year just so you will stay in your position there," that
24 would be called supplementing his government salary.

25 Now why do you have to be careful of this?
26 Because you are here as special government employees. You

1 are here dealing with specific matters. Okay. You have to
2 be careful. If somebody outside, because you have your
3 personal lives, wants to hire you and pay you an honorarium
4 or have you do something on something you are doing here,
5 all right, you need to be careful about that. You all have
6 a much broader expertise than what you are doing for this
7 committee, but you have to keep in mind that what you are
8 doing for this committee is just what you are doing for
9 this committee and that needs to be kept separate from what
10 you do in your outside lives.

11 Let me just also mention that there is other
12 criminal statutes. There is also something called the
13 "Standards of Ethical Conduct for Employees of the
14 Executive Branch." These are issued by the Office of
15 Government Ethics. They apply to everybody in the
16 executive branch. They contain restrictions on teaching,
17 speaking and writing. There actually are some restrictions
18 in here that apply to you as special government employees
19 specifically.

20 But let me just reiterate that it actually
21 makes sense. If you are working on something here and
22 there is an identifiable outside party, and somebody says
23 to you, "Would you do something for me about that thing,
24 about that thing you are working on here, with that
25 identifiable outside party," please call Bill Dommel
26 because it is likely there is a problem. We may well be

1 able to resolve it but that is the kind of thing we need to
2 know about.

3 Like I said, I do not think it is too difficult
4 to put together because if what you are doing here for the
5 government and there is an identifiable outside party then
6 that should have a light bulb go off that there might be an
7 issue.

8 There are some post-employment issues that come
9 up as special government employees if you work on something
10 specifically here. I mean, if you were a council giving
11 grants, for example, if you gave a grant to, you know, Yale
12 University, you could then become their person to represent
13 Yale back to the NIH on that exact same grant. It does not
14 apply to any other grant, but only applies to that
15 particular thing you worked on when you were here. So you
16 need to keep that in mind. Something particular that you
17 work on here involving outside specific parties could have
18 some post-employment repercussions.

19 Anyway, that is basically a general overview of
20 ethics in government. It is not as onerous as what people
21 think it is. There usually are ways to resolve problems
22 that come up. I am always available to talk to people
23 privately about any situation that raises a concern. I
24 know Bill will give you all a break now.

25 DR. SHAPIRO: Thank you very much. We will
26 have an opportunity later today and later this afternoon to

1 discuss individual issues together, that is if there are
2 any conflicts any of us perceive or want other committee
3 members to know about. That is something we will address
4 together later on this afternoon. I think you are going to
5 be here at that time to help us if we need any help in that
6 area.

7 MS. RUSSELL-EINHORN: I will be back.

8 DR. SHAPIRO: Are there any particular
9 questions right now?

10 Jim?

11 DR. CHILDRESS: Could I just ask for a
12 clarification? You said that we should be careful, for
13 instance, about accepting honorarium to give a lecture on
14 something related to the work of this group. Obviously a
15 lot of us give lectures that touch on the topic such as
16 ethics in clinical policy and health care where we might
17 well use this as a major portion of the talk. You said be
18 careful about that. Could you be more specific?

19 MS. RUSSELL-EINHORN: If you go out and give a
20 talk on what this committee is doing and get paid for it,
21 it begins to look like you are going out there as a
22 representative of the committee. You are there in your
23 capacity as a committee member. I mean, this is another
24 issue that is very important, which is you have to separate
25 what capacity are you in. Are you in your capacity as a
26 private citizen with your other credentials or are you

1 there representing your government office?

2 If you give a lecture and you say, "This is
3 what the National Bioethics Advisory Council is doing," you
4 may well not be able to accept compensation for that
5 because it may well be perceived to be too related to your
6 official duties. On the other hand, if you give a general
7 talk about what is going on in bioethics generally and you
8 talk a little bit about what is going on here, that is not
9 necessarily going to be perceived as focusing on what you
10 are doing here.

11 DR. SHAPIRO: Yes?

12 DR. BRITO: That is a little confusing to me
13 because part -- it was mentioned earlier that part of the
14 reason of bringing the seventeen of us together is not just
15 to draw on our ideas, but ideas nationally from the people
16 we come in contact with, and part of that contact and
17 influence, and other ideas can come from giving these talks
18 and discussing particularly the university -- well, from my
19 point of view from my university and speaking with the
20 bioethics groups there and getting feedback.

21 So am I understanding that we cannot -- we can
22 only utilize general ideas, but we cannot specifically say
23 that the National Bioethics Advisory Commission has
24 recommended such and such or is contemplating doing such
25 and such?

26 MS. RUSSELL-EINHORN: Okay. Compensation is

1 the issue. If you are not getting any money for what you
2 are doing you still need to be worried about it in the
3 sense that, you know, if you are going to give a lecture
4 and you are not going to get compensation and you are going
5 to talk about what the Bioethics Committee is doing, are
6 you trying to make a statement on behalf of the entire
7 committee? That is a different issue. But in the context
8 of ethics issues you can do that. Okay. You are not
9 accepting compensation.

10 On the other hand you are offered money for
11 what you are going to do and if you are offered money then
12 we do need to make an assessment about whether what you are
13 going to talk about is just so closely related to what you
14 are doing here that it might raise a problem.

15 Yes?

16 DR. SHAPIRO: Alex?

17 PROF. CAPRON: Well, I thought that Jack Kress'
18 memorandum on this, which is not to us but was just a
19 standing statement of these ethics rules, there was a
20 fairly clear differentiation which we may all want to look
21 back at. It says that the statute does not preclude
22 special government employees from receiving compensation
23 for teaching, speaking or writing on a subject within the
24 employee's discipline or generic area of expertise based on
25 the employee's educational background or experience even
26 though the teaching, speaking or writing deals generally

1 with a subject within the agency's area of responsibility.

2 That is differentiated from a situation in
3 which an invitation is issued and circumstances would
4 indicate that the inviter expected you to come and speak on
5 behalf of the, in this case, NBAC. In my experience as a
6 long time special government employee this does not raise
7 real issues for us. I mean, if any people here are being
8 invited because of their expertise it is not an issue that
9 you along the way mention the activities of a group in
10 which you are a member. Being a special government
11 employee does not extinguish the First Amendment.

12 MS. RUSSELL-EINHORN: That is right.

13 DR. SHAPIRO: Alta?

14 PROF. CHARO: Okay. First to follow-up just
15 briefly on a couple of these picky things. Compensation,
16 definition of? Okay. Also, I have -- I waive honoraria
17 and ask that they make a contribution to one of several
18 charities that I identify for them. Is that considered
19 compensation?

20 MS. RUSSELL-EINHORN: Well --

21 PROF. CHARO: It does not go to me. I do not
22 take a tax deduction.

23 MS. RUSSELL-EINHORN: Yes. The definitions of
24 compensation is frequently derived from IRS regulations.
25 We do not have any control over them. Usually they are
26 defined as saying if you suggest a charity, that is okay.

1 If you direct a charity, then it is construed that you have
2 received it even if you really have not.

3 PROF. CHARO: Good. That is clear. Thank you.
4 Reimbursement for travel expenses, dollar for
5 dollar.

6 PROF. CAPRON: It counts as compensation.

7 PROF. CHARO: Excuse me?

8 PROF. CAPRON: It is in the definition of
9 compensation.

10 MS. RUSSELL-EINHORN: There is actually a legal
11 battle about that right now. I would, to be on the safe
12 side, assume that it is compensation, but it may change.

13 PROF. CHARO: I wish I really were all that
14 compensated.

15 (Laughter.)

16 PROF. CHARO: And supplemental income. Now my
17 understanding is that we are not getting anything other
18 than per diem to cover our costs while we are here and my
19 university does not consider this to be away from work. It
20 is part of my work. But are you suggesting that we need to
21 take leave days so that we are being paid by our home
22 institution?

23 MS. RUSSELL-EINHORN: No, no, no. These are
24 different rules for government employees.

25 PROF. CHARO: Okay.

26 MS. RUSSELL-EINHORN: These are very different.

1 You will find that there are very different rules for
2 academic institutions and government in certain cases.

3 Let me also just make one other point. Under
4 the Hatch Act, which is the statute that governs political
5 activities for special government employees, you only need
6 to be concerned about the time that you are actually
7 serving as a government employee. Okay. When you come to
8 Washington and you want to do something else, you want to
9 go up on the Hill, I would not suggest that you come here
10 from 9:00 to 12:00, go up to the Hill, and then come back
11 here from 2:00 to 4:00. You need to be able to delineate
12 when your service as a government employee ended and so
13 long as you do that you will have no trouble.

14 I will be back again.

15 DR. SHAPIRO: I want to ask a question.

16 MS. RUSSELL-EINHORN: Sure.

17 DR. SHAPIRO: I think it has already been asked
18 and I just did not focus on the right answer to that. I am
19 chairman of the committee so I have already been asked by
20 many professional organizations, academic organizations, to
21 come and talk about the work of the committee. There is no
22 honoraria involved or anything like that, but there is
23 travel expenses involved and what you are telling me is
24 that travel expenses are compensation.

25 MS. RUSSELL-EINHORN: The Office of Government
26 Ethics put out a regulation that said that you cannot do

1 teaching, speaking and writing activities if you get
2 compensation for that and this regulation affects you as
3 special government employees. They defined compensation
4 for the first time as including travel. Okay. Basically
5 the regulation says if you want to teach, write, speak
6 about what you do for the government, relates to what you
7 do for the government, so long as you do not take
8 compensation for it, it is okay, but then they included
9 travel.

10 Now what happened was that somebody went and
11 sued. Two people from EPA. And these two people from EPA
12 said, "This is a violation of our First Amendment rights."
13 Just for your information, the Department feels that way
14 too. We do not believe that travel should be defined -- it
15 should be included in the definition of compensation.

16 The U.S. District Court agreed and said, "You
17 are wrong, OGE, the Office of Government Ethics. You
18 cannot include travel as compensation under this regulation
19 because you are violating the First Amendment rights of
20 these two individuals from EPA."

21 But then the most bizarre thing happened, which
22 is that the Department of Justice came out and said, "Well,
23 we think this case only applies to the two people who
24 sued." And this was a very interesting interpretation.

25 There is -- so what they have said is, "You are
26 at risk here. We think it is only the two people at EPA

1 who can get travel and nobody else."

2 Apparently there is --

3 MR. HOLTZMAN: Bill it to them.

4 (Laughter.)

5 MS. RUSSELL-EINHORN: There is an attempt in
6 progress to amend these regulations and take away this
7 problem in total. So my answer to you is that I think a
8 U.S. Attorney would be hard pressed to say that travel is
9 compensation and would be hard pressed to say that the
10 Santor case does not apply across the board to all federal
11 employees, and that the department is behind you all one-
12 hundred percent in the sense that travel is not
13 compensation. But I cannot ignore the fact that this
14 little tip is out there and so that is my answer.

15 PROF. CAPRON: I mean it is not a totally
16 unreasonable position. After all it, I think, aims at
17 people who hold meetings in very comfortable surroundings
18 and bring government employees who have an interest in the
19 area there, and the travel is, in effect, a perk.

20 The flip side of that is that those people can
21 go to those meetings and the government can pay for them to
22 be there if it is considered a legitimate thing. I would
23 assume that if our chairman is being asked to go places and
24 this rule applied that we ought to pay for him to go there
25 and give that talk on our behalf. So it is not that
26 special government employees are put -- to expend these

1 funds themselves.

2 If I have a federal, as I say, grant officer
3 that is involved in a grant we have comes to a meeting,
4 with all the rules that he or she has to be on government
5 travel and so forth to that meeting if it is important to
6 them to be there monitoring what is going on. It is just
7 that I should not be paying them because then it looks as
8 though I am trying to influence their attitude towards the
9 project.

10 MS. RUSSELL-EINHORN: All right. Let me just
11 add something. You know, I am not involved in the
12 administrative day-to-day work of the Institutes. So
13 sometimes my knowledge stops here. But there is a process
14 where if you were on official travel you can get sponsored
15 travel where the organization reimburses the government to
16 pay for the travel so long as there is no conflict.

17 Now I have to say I have not been consulted too
18 much about using that for special government employees but
19 it is certainly there. In other words, instead of you
20 going to the professional association on your own and not
21 taking honorarium and, you know, worrying about how you are
22 going to deal with the travel, you make it an official
23 activity in your capacity as chair of this committee or in
24 your capacity as a member of this committee. The money
25 gets funneled through a 348, the legitimate travel process.

26 DR. SHAPIRO: Thank you. Any of you with

1 continuing questions as it evolves can speak to Bill or we
2 can get in touch with you.

3 Thank you very much.

4 PROF. CAPRON: Could I ask --

5 DR. SHAPIRO: Yes.

6 PROF. CAPRON: -- another question?

7 DR. SHAPIRO: Yes.

8 PROF. CAPRON: I am curious in part because of
9 the way my own thing is handled, do you have a separate
10 category for something that in the academy complex, we have
11 talked in the National Academy, we have talked about, which
12 is the conflicts of commitment?

13 In other words, you seemed to focus so much on
14 the notion that it is one's financial interests that are
15 most important and for many of us, who are academics we do
16 not have any business connections and do not own a lot of
17 things, money is perhaps less important than our conflicts
18 of commitment to certain activities, certain conclusions
19 and so forth. And in a scientific process that is
20 considered something that is important that has to be known
21 by people.

22 Do you do any work like that or you are just
23 looking at --

24 MS. RUSSELL-EINHORN: No, that is part of a
25 policy matter because when you are talking about laws and
26 regulations you need something specific. That is why it

1 focuses in on something that is identifiable. Some kind of
2 an asset. We focus in on financial assets. Even the
3 appearance standard, you know, where it is not -- you
4 cannot just say the situation does not feel good or look
5 good and so, therefore, there is an appearance of conflict
6 of interest, you have got to meet certain legal standards
7 before you can say that that happens. So commitment,
8 conflict of commitment is much more of a policy issue.

9 DR. SHAPIRO: Any other questions just before
10 you go? Any other questions?

11 All right. Thank you very much. We will see
12 you later on today. Thank you.

13 One last item before we break. I think it is a
14 very brief item but it is important for us to discuss it
15 and see how the commission feels about it. It is a little
16 bit late into this last issue. That is who is it that
17 represents the commission to the press, and particularly
18 the media, broadly speaking? I think Alex said in
19 conjunction with another comment this morning that we do
20 not want to hold back the First Amendment rights anybody
21 has and, of course, all of us are free to speak about the
22 work of the commission in any way that you feel like
23 speaking about to anyone you want to speak to about it.

24 However, it seems to me it would be somewhat
25 more orderly and help us if I handled speaking for the
26 commission itself through our office here in Washington.

1 If that is satisfactory to people we will just proceed on
2 that basis and if anyone has an issue with it or wants to
3 clarify it that is available any time. I am available any
4 time to anyone on the commission.

5 So this is really not meant to discourage
6 discussion or to talk about the committee's work, which
7 really I encourage every commission member to do, but
8 simply in question more formally speaking for the committee
9 and whatever conclusions that we might reach and
10 recommendations that we will make over time.

11 Does that seem sensible to members of the
12 commission?

13 DR. DUMAS: Sure.

14 DR. SHAPIRO: Okay. We will proceed with that.
15 If issues come up we can always discuss it at any time.

16 All right. Let's take a 15 minute break and be
17 back here at 10:30. Thank you.

18 (Whereupon, a break was taken from 10:20 a.m.
19 until 10:45 a.m.)

20 VISIONS FOR THE COMMISSION

21 CHAIR AND MEMBERS

22 DR. SHAPIRO: Okay. Colleagues, let's call the
23 meeting to order. Can I have your attention please?

24 There are deadlines and there are deadlines.
25 We have an important one in front of us. Namely I am told
26 that if we do not break at 11:45 for lunch we may have a

1 very long line to stand in. So we are going to break
2 promptly at 11 -- no later than 11:45 so that you can take
3 some reasonable amount of time for lunch without any undue
4 inconvenience.

5 So we do have an hour and we will have more
6 time later today to talk about the future of our role.
7 This is the first time we have had a time -- a moment to
8 talk together about it, although I have talked individually
9 to some members of the commission before now. And it
10 really is an appropriate moment to speak either to the
11 broad role of the commission as you see it or to specific
12 tactics we might pursue, i.e. which agenda items should we
13 take on at the moment and how should we deal with them.

14 There are two activities which I would like to
15 bring you up-to-date on very, very briefly. First of all,
16 as you know, there is the World Congress, I guess the Third
17 World Congress.

18 Is that right, Alex?

19 PROF. CAPRON: Yes.

20 DR. SHAPIRO: The Third World Congress on
21 Bioethics which will be held out in San Francisco in the
22 end of November. I think it begins November 22nd if I
23 remember correctly. That one begins the 22nd.

24 Really Alex made what I thought was a very good
25 suggestion that we try to assemble the day before the
26 Congress starts in San Francisco not only ourselves, those

1 of us with an interest to be in such a meeting, but members
2 of various types of bioethical commissions from around the
3 world who could share their experiences with us not only in
4 terms of the recommendations that they may have come up
5 with, with respect to issues of concern to both us and
6 them, but also their views on what it took to make
7 commission activities, using the word "commission" just in
8 the generic sense, successful.

9 I thought that was really an excellent idea to
10 take advantage of both the fact that we are just starting
11 and the Congress meeting to do that. So we have scheduled
12 a meeting to which you have all been invited, which takes
13 place in San Francisco on the 21st. I think it is
14 officially a subcommittee meeting as a way this shall
15 happen. It is a panel that is meeting. But we have
16 invited all members of the commission to be members of this
17 panel if they choose and if their schedules allow.

18 So just before we begin a more general
19 discussion let me turn to Alex to update you on where those
20 plans are now and to express my gratitude to him for taking
21 initiative to get this meeting going.

22 Alex?

23 PROF. CAPRON: Thank you. The office has done
24 a superb job of contacting hundreds of people around the
25 world and issuing invitations. One of the things about our
26 commission starting so much later than, I guess, some of us

1 had hoped when the initial process began was that letters
2 of invitation to go out in August and September to invite
3 people to a meeting in November from around the world meet
4 with conflicts in their schedules and difficulties of
5 organizing their own official process of getting approvals
6 and so forth.

7 We have had 22 affirmative responses. They
8 represent actually a very excellent cross selection of the
9 people from around the world. I am pleased to see that
10 they include people such as Jean Pierre Changeux, who is
11 the President, the Chairman of the French Consultative
12 Committee which has been in operation for about a decade,
13 people from China, from a number of the Asian and Latin
14 American countries, and from the international bodies that
15 have shown a strong interest.

16 I expect that we will have substantially more
17 people than that by the time we gather. In some ways it
18 will be advantageous that the group will not be too
19 unwieldy and I hope that we get the kind of advice that the
20 chairman has indicated we are seeking, as well as the free
21 exchange of ideas both during the session and for those
22 people who are staying longer over the next couple of days.

23 We have -- Harold and I had worked out kind of
24 a rough agenda for the meeting which is included in the
25 brochure that is going out about the whole Congress and the
26 Associated -- American Association of Bioethics annual

1 meeting on the 20th and 22nd, and a number of other sub --
2 post Congress sessions.

3 And I have for anyone who would like a couple
4 of copies I brought along of the entire document. I think
5 that one of the things Harold would like to do during the
6 meeting now, not at this moment necessarily but at some
7 time today, is to get reactions to the kind of rough agenda
8 that has been established.

9 We are extremely fortunate that Professor Amy
10 Gutmann (?) has agreed to give a luncheon address. Amy and
11 Dennis Thompson are working on a book about deliberation in
12 democracy.

13 Excuse me?

14 DR. EMANUEL: It is already out.

15 PROF. CAPRON: It is out. It is out. Have
16 worked on.

17 DR. SHAPIRO: And reviewed in the Post already.

18 DR. EMANUEL: Right.

19 PROF. CAPRON: And some of her comments about
20 the role of ethics deliberation will be, I am sure, based
21 on that work with Dennis. I think it is not a conflict of
22 interest that she happens to come from Princeton University
23 where I guess she is now the dean of the faculty.

24 Perhaps I could give the staff the one page out
25 of this document which sketches the tentative agenda. The
26 fact that it is going to be published in the brochure,

1 unlike the Federal Government, which once it publishes what
2 the agenda is in the Federal Register gets subject to all
3 sorts of problems if it tries in any way to rearrange
4 things, I think we at this point from this brochure that is
5 published have a good deal of liberality.

6 The idea was simply to indicate to people who
7 might be interested in coming to the meeting obviously that
8 portion of the Congress was open to the public because it
9 is a -- because we are gathered there in observer status.
10 Just to indicate the kinds of topics that would be talked
11 about.

12 So I will give that one page and then be happy
13 to share with all of you, anyone who would like to look
14 during the lunch hour or whatever, the full agenda for the
15 other -- the Congress if you are making up your own mind as
16 to whether or not there will be things there that interest
17 you enough to attend.

18 DR. COX: Alex?

19 DR. SHAPIRO: Do you have a question?

20 DR. COX: Yes. What is the time on that? Was
21 that all day the 21st?

22 PROF. CAPRON: It is set up to be a basically
23 all day discussion.

24 DR. MURRAY: On the 21st, not the 20th?

25 PROF. CAPRON: The 21st. That is correct. The
26 day before, the Thursday.

1 DR. EMANUEL: The 20th is the start of the
2 American Association of Bioethics annual meeting.

3 DR. SHAPIRO: Any questions regarding that
4 particular meeting which will take place late in November?

5 Again, if any of you have any questions, Alex
6 is the best person to address them to, although if you
7 would call me I will try to answer them if I can.

8 Okay. Thank you very much.

9 Now I would like to open the floor for a formal
10 discussion amongst the commissioners regarding, as I said a
11 few moments ago, their perspectives, both short-term and
12 long-term, regarding the work of the commission. I sent
13 everybody a note saying we would have such a discussion at
14 this meeting and that will take place now and again later
15 this afternoon after we hear from Dr. Collins. Indeed,
16 encourage anybody who thought that they might want to
17 commit their thoughts to writing to do so.

18 I have received -- we have received I should
19 say -- some remarks from Bernie Lo, from Alta Charo, and
20 Patricia Backlar, and that you should all have copies of
21 those at your place. I will leave it to them to
22 characterize these notes. Some are rhetorical questions,
23 some are observations and so on. But I am really very
24 appreciative. It really does help a lot for people to
25 submit things in writing and we can share them amongst each
26 other in ways that are very difficult otherwise.

1 So rather than turn specifically to any one of
2 those, let me just see which commissioner would like to
3 speak.

4 Yes?

5 PROF. CAPRON: I do not know if it is
6 appropriate. I did not -- this is not an arranged colloquy
7 and I may be out of order, but my own thinking about what
8 kinds of things we should be dealing with is affected by
9 what ability we have to deal with them. And is that
10 something that you are in a position to share or not?

11 DR. SHAPIRO: I think I am in a position to
12 share that since it is not a deep dark secret as far as I
13 am aware.

14 As you know, the Executive Order or at least
15 one of the pieces of paper that came through the official
16 channels mentioned a project of \$500,000. More than a few
17 members of the commission asked me what on earth I expect
18 to accomplish with that amount of money. As you know, from
19 what I said to some of you last night that our real wealth
20 is the intellectually endowment of the commission members,
21 but that is hardly an answer to that question as true as
22 that might be.

23 I expect that our final budget will settle down
24 somewhere between three and four times that amount per year
25 and that is the basis on which we ought to be planning. I
26 do not expect more than that, although I think that that is

1 -- that may, in fact, occur. But what I expect is to meet
2 the requirements set down in that report that someone
3 referred to as now out of print that we all have in the
4 back of our book which suggests that that is an appropriate
5 budget target for a commission such as these and that is
6 what we are planning and as we all ought to plan.

7 So is that responsive to your question?

8 PROF. CAPRON: Precisely. Thank you.

9 DR. SHAPIRO: Thank you.

10 Yes, Larry?

11 DR. MIKE: I am more interested in short-term
12 productions since I am a short-term member. I have a two-
13 year term. So I am not worried about the long-term.

14 We have two specific charges and I guess we
15 will have to wait for Dr. Collins to talk about the work in
16 the genetic area that is already being done and what we can
17 add to it or leave it up to other people. It seems that in
18 a subject area we can do one of several things. One is
19 simply try to strengthen the current system that if people
20 have identified short-comings among specific population
21 groups, as Dr. Lo has mentioned, improving and setting the
22 process of review like the IRB.

23 I would add another thing since I am supposed
24 to be here representing a particular ethnic side or
25 whatever you want to look at it, is I think there is more
26 increasing research among communities. The curious phrase

1 that the Canadian study mentions is "collectivities."
2 Interestingly enough a little community in Hawaii has done
3 exactly what the Canadian group has mentioned as
4 collectivities.

5 But I only raise that in a sense that so much
6 of what the focus is on human research is the protection of
7 the individual in the research, but we are moving much more
8 toward communities or groups. And I think there is much
9 more awareness now about the rights and responsibilities
10 and the protection of whatever the communities that those
11 people come from. So I think that is an issue worth -- I
12 think it is realistic to address that.

13 Researchers will not like what comes out of
14 that, but I do not think researchers liked at least in the
15 initial stages what came out of this whole field of
16 protection.

17 DR. SHAPIRO: Bernie?

18 DR. LO: Let me try and follow with what Larry
19 said. I had a number of episodes happen to me just this
20 past fall which really struck home that there may be some
21 real problems with the way research is carried out in an
22 institution like mine which supposedly has a good review
23 process.

24 About three weeks ago, if I could just tell a
25 brief story, one of my clinic patients came in very, very
26 upset saying that she had volunteered to be a subject in a

1 big NIH funded study and at her initial intake interview
2 there were three other prospective subjects in the room and
3 the researcher started to ask her fairly personal questions
4 and she said, "I do not think we should be doing this with
5 the other people here," and the research assistant said,
6 "Oh, that is okay, we will just go right ahead."

7 I worked out by calling the principal
8 investigator who was shocked that this happened and said
9 that was a problem with sort of the training. But it
10 really struck -- my patient really had her confidence in
11 the whole research process undermined.

12 Now this may be just an isolated event that
13 will never happen again, but I think it struck home to me
14 that we have a model for regulating research in this
15 country. It is really a decentralized IRB type model. The
16 assumption is that this will take care of the salient
17 problems. And a number of you in your other statements
18 point out that we have had some episodes over the past
19 couple of years where perhaps the IRB was not doing its
20 job.

21 I would stress that maybe we want to reconsider
22 whether the IRB model really is up to the task. I think
23 there are some real pressures that might lead one to
24 question how -- whether it is set up to do what it is
25 supposed to do.

26 First, there are so many studies that IRBs

1 review. Our IRB averaged about seven minutes per study.
2 If you average the meeting times versus the number of
3 protocols that is about what it comes out to. Real
4 disincentives to top rate scientists to serve on these
5 committee. It is a time statement and lots of controversy
6 in the areas of research.

7 I am very concerned about researchers that have
8 a financial stake in the outcome of research in equity or
9 consultantships or whatever. Also, just the lack of
10 ongoing monitoring of these processes, which is what I
11 think happened to the situation I alluded to.

12 So, I think, I liked very much as we went
13 around the table the sort of practical vent people have
14 echoed people's concerns that I would like this to be a
15 productive committee and that it does something that is
16 going to have an impact. Maybe it is not on regulations
17 but at least on standards of practice among researchers.

18 I outlined a couple of things we might want to
19 look at. Should IRB membership be enlarged to include
20 community representatives, representatives of the subjects
21 for the research to go back to Larry's sort of community
22 theme? Should IRB members have some training? Should
23 there be some sort of standard expectation of expertise?
24 Should potential participants in research be routinely
25 informed of any financial stake either of the institution
26 or the individual researchers have in the research? Does

1 it matter to a potential subject what financial profits
2 might go to the investigator institution?

3 Finally, I think I have some real concerns
4 about ongoing monitoring especially of complex
5 controversial studies. I sit on a couple of data safety
6 monitoring boards which have maybe sometimes a conflict of
7 interest. But the themes that we see on data safety
8 monitoring boards remind us that -- that if there is not a
9 procedure in place to identify issues as they come up after
10 the initial IRB approval, that will not be picked up in the
11 yearly review. There may be problems that go unaddressed.

12 So these are just issues to think about and it
13 may be a way of starting a broader discussion of sort of
14 our public policy towards human subjects research.

15 DR. SHAPIRO: Thank you very much. There are
16 quite a few members that want to speak. I have Zeke and
17 Diane. Trish, I think you wanted --

18 PROF. BACKLAR: I just wanted to make one point
19 addressing that.

20 DR. SHAPIRO: All right. Let's just keep in
21 order here because that is the way I can recognize you. If
22 I am not seeing your hands let me know. Okay.

23 Zeke?

24 DR. EMANUEL: I just wanted to pick up on some
25 of the things mentioned and really put my comments into
26 three areas. One is the sort of moral issues we were

1 charged by Dr. Gibbons with sort of outlining moral
2 principles or identifying them.

3 I guess my feeling is, and it really goes back
4 to the issue that Larry mentioned about community, it is
5 less a matter for us of identifying than of balancing all
6 the different values we have. I think many of the interest
7 in values and principles we know. It is not a problem of
8 the fact that we do not -- cannot identify them or know
9 them. It is really a problem of balancing them in this
10 complex, ever changing world. And that is going to require
11 a lot of judgment. Unfortunately, that does get us into
12 sometimes politically very controversial areas.

13 But one of the values which I think has sort of
14 evolved over time and maybe has not received as much
15 attention is the one Larry mentioned. A lot of the focus
16 of bioethics has been autonomy, individuals and much less
17 has been our focus on community or what some people call
18 solidarity. That balance arises a lot in the very issues
19 that we have been charged with. The issue of research and
20 the issue of genetics very much impinge not just the
21 individual but the family and beyond the family, ethnic and
22 racial groups, and beyond that the community at large.

23 I think that balance between the individual and
24 community is something that this committee really does need
25 to look at in these particular areas that I do not think
26 has been well looked at, but certainly in the bioethics

1 community, which I know better than others, that balance --
2 a lot of people are upset about the over emphasis of
3 autonomy and the under emphasis of community, and I would
4 suggest that would be important.

5 The second point I wanted to make just to pick
6 up something about the individual research topics we would
7 address, and I would, I guess, make my comments in the
8 following order: One of the experiences I have recently
9 had is running a multi-institutional research project. It
10 is enormously difficult. I have been through 40 IRBs now
11 and I will only say that the review process is vastly
12 different in places. The concerns are vastly different and
13 the judgments are vastly different.

14 My protocol has been approved and rejected at
15 many different places and it is, I think -- my own
16 experience is that when you do multi-institutional
17 research, and that is increasingly becoming the norm, it is
18 too haphazard in this country. I am not sure a national
19 board is the answer, but I think some other process than
20 you have to go through 40 needs to be thought about.

21 The second area I would suggest is conflict of
22 interest. Not that we need again to identify the
23 principles, but we need a bit of a better balance. The
24 commercialization of medicine, of research raises a lot of
25 issues and I think my own experience and probably the
26 discussion this morning raised it clearly. We have a lot

1 of different intuitions and rules about it. The government
2 has different rules than academic. Having a sort of broad,
3 but useful comment by the committee I think would be
4 helpful.

5 Finally, I would suggest the issue of
6 confidentiality and privacy. It has been raised and I am
7 sure Dr. Collins is going to raise it. I think this is a
8 prime subject for the moment. This committee is primed to
9 do it. It impinges on the issue of research and genetics,
10 as well as many others.

11 Finally, if I could conclude these comments --
12 I am sorry they are too long -- just about certain
13 procedural issues. I am a practical guy. I like to get
14 things done and I think regulations are important. But I
15 would also urge this committee, some of the concerns that
16 are raised, some of the reasons that we have been brought
17 into existence, I think, go beyond the practical and
18 changing regulations. You might call them, as Steve
19 Holtzman did in our cab ride over here, metaphysical,
20 spiritual, whatever, going to the soul as it were.

21 They certainly -- if we ignore those and only
22 focus on what is practical we may do a disservice and many
23 people may feel short-changed by what we do, especially in
24 the area of genetics. I think the questions, while poorly
25 articulated, really go to who we are in a spiritual
26 metaphysical way. And I think that is as important for us

1 to wrestle with and if we cannot say anything meaningful
2 then that is also an important conclusion.

3 Finally, I would say something about our
4 meetings. We are meeting here at the NIH, a wonderful
5 institution. We are a national commission and not just --
6 I think we will have profound effect if we direct ourselves
7 not just to the federal government, but to the whole
8 country. Our other meetings are scheduled for Washington,
9 D.C., I would -- a road show would be useful.

10 DR. SHAPIRO: Thank you.

11 DR. EMANUEL: As much as I hate traveling.

12 (Laughter.)

13 DR. SHAPIRO: Diane?

14 DR. SCOTT-JONES: I am glad to hear the
15 comments that have proceeded mine because one thing that I
16 think about being in a forum like this is that our entering
17 ideas get enriched by the exchange that we have among
18 ourselves. So some of the things that I think about and am
19 concerned about I am glad to hear reflected in the comments
20 that have already been made so I will be brief.

21 Bernie Lo's comments about the incident in
22 which a person was talked to in the presence of others
23 rather than in a private setting led him to talk about the
24 role of the IRB and I think that is important. But I think
25 it also highlights for us the importance of training and
26 monitoring ourselves as researchers and how we can do

1 something to encourage that process.

2 I think that we have a reverence for science in
3 our society and that when we train students we encourage
4 them to have that reverence for science and some of us may
5 think a lot less about the role of the participants in
6 research. So I think the IRB cannot do it alone. We
7 somehow have to have a greater sense of responsibility in
8 individual research projects because the IRB cannot really
9 monitor the day-to-day doings of a project and they could
10 not really prevent the incident that you described.

11 I also am glad to hear the concern about
12 communities and not just concern about individuals. I
13 think often of an incident that happened to me when I
14 started a research project at a university where I worked
15 before my present position. I had to go into the community
16 and ask for permission to work in a child care center that
17 was near the university I worked and the child care center
18 for a time enjoyed the support of the university.

19 When I spoke to the person who was in a
20 position to give me permission to work there, he pointed
21 out to me that the building built most recently at the
22 university where I worked had no doors and no windows on
23 the side of it that faced the African American community.
24 And as we sat in his office I could see this building
25 across the street and in the distance a bit, and he was
26 exactly right but I had never thought about it.

1 I think what he pointed out to me was a
2 metaphor for the way that we do science. We set up
3 barriers between ourselves and the communities that we
4 should serve and I think that is an ethical issue because
5 it prevents communities from benefiting from the research
6 in the way that they should. It also penalizes us as
7 researchers because we have a situation where persons who
8 we want to participate in our research are wary of us, they
9 are suspicious of us, and so I think we lose on both sides
10 when we set up barriers or divisions between ourselves and
11 the communities we want to study.

12 So I think although, you know, some reverence
13 for science is perhaps appropriate, I think we should aim
14 more for a model where science is seen as part of person's
15 everyday lives and as a vehicle that they can use for
16 improvement rather than something that stands apart from
17 them. So those are some of the issues that I think we
18 should deal with.

19 Also the issue of informed consent. Others
20 have made mention. I think that is one that we need to do
21 more with because IRB regulations are sometimes so involved
22 that we end up with a consent letter that parents often do
23 not read. It causes people to question us more than it
24 causes people to want to participate in the study. So we
25 need to find a way to take a prospective look at what we
26 are studying when we are going about doing our research.

1 DR. SHAPIRO: On the issue of informed consent
2 a lot of people have written me since my appointment was
3 announced. The single most common item I have received
4 comes from physicians engaged in clinical research and
5 deals with the issue of informed consent and whether we are
6 handling that right. So we will certainly come back to
7 that.

8 Patricia?

9 PROF. BACKLAR: I feel that much of what I was
10 going to say has been said.

11 DR. SHAPIRO: It is possible to pass.

12 PROF. BACKLAR: Right. I think there is one
13 aspect of the IRB that Bernie was talking about that I do
14 want to get back to and people have also mentioned, and
15 that is some elements of conflict of interest that just
16 innately lie within the IRB process, and that is a
17 considerable concern.

18 The rest of the issues you can read in my piece
19 that I passed out, but I want to say out loud that we do
20 need to balance the need to develop the specific policies
21 and standards and procedures with the need to maintain an
22 evaluative system that is flexible and open to the
23 particulars of research projects. That is what we have to
24 do with our collectives and individuals as well.

25 DR. SHAPIRO: Thank you very much.

26 Eric?

1 DR. CASSELL: Well, like all clinicians no
2 matter how long they have been working or how fancy they
3 are, they take care of common colds. We -- certain gut
4 issues, the conflict of interest and so forth, will never
5 go away and have been, in fact, in ethical boards forever.

6 However, in the generation since all this
7 really started a lot of things have changed in this country
8 around those same gut issues. One of them is that we have
9 a lot of experts on ethics in the world. As a matter of
10 fact, as everybody knows, everybody knows everything. And
11 ethics is one of the things everybody knows everything
12 about.

13 It is my hope that as we work along that we
14 begin to move that community into a more sophisticated
15 understanding. Zeke pointed out what Dan Callahan called
16 the desert of paternalism and autonomy and we move past
17 that concept. One of our functions, I think, is an
18 educational function in which people see a more
19 sophisticated understanding.

20 The second thing that has happened in all this
21 generation is that we are now firmly in a technological
22 era. We are not in the beginning of one. And as such
23 there was a sort of antiscience bias in the early ethics
24 time and that just will not do now.

25 On the other hand, scientists have a certain
26 vaulting optimism sometimes and blinders that keep them

1 from seeing distress in their fields, although as David
2 pointed out that is not always the case. We are obligated
3 in part to educate our colleagues and scientists. We also
4 have to understand why Aristotle said in the beginning of
5 metaphysics, "All men by nature desire to know. The
6 pressure to know is irresistible," and we have to be a part
7 of that.

8 Finally, the other thing that has happened in
9 the same era is there has -- somebody said that in the
10 beginning of this century that it was going to be the
11 century of over-simplification. So it certainly happened.

12 (Laughter.)

13 It certainly has been that in relationship to
14 understanding human beings. In the last generation the
15 increasing complexity and what it means when you say
16 somebody is a person is becoming apparent and the same
17 thing about the collectivities and communities. We are
18 just beginning to know what persons are, what families are,
19 what relationships are, and it is this interaction of these
20 trends that I think we sit right in the middle of. It is
21 our function that when we do a simple thing like a conflict
22 of interest question or informed consent, it is always with
23 this philosophical background. We have moved ahead a whole
24 new generation and we have to keep it in mind.

25 DR. SHAPIRO: Thank you.

26 Alta?

1 PROF. CHARO: I think I will let the written
2 piece, and I again apologize for having done it with
3 handwriting, speak for itself.

4 PROF. CAPRON: But you write so neatly, Alta.

5 PROF. CHARO: Especially when I am trying to
6 make it legible. I will let it speak for itself with
7 regard to the generic points about uniformity of coverage
8 of human subjects research guidelines or regulations,
9 specific populations are omitted from the regs, and these
10 are the types of protocols involving human tissue and
11 genetic information.

12 But I would like to add to it because I did not
13 have enough coffee when I wrote this to have remembered to
14 add to it. Number one, a hearty endorsement of all of
15 these things circling around having to do with
16 multicultural issues and I am embarrassed that I only refer
17 to it indirectly in transnational context, which is really
18 horrific.

19 I think we need probably to take notice
20 specifically of the existence of the Tuskegee Project which
21 is still working to get an apology and the lessons that can
22 be learned from that experience and the radiation
23 experience, et cetera, not only in the context of how
24 people are treated, not only, I think, implicit in Larry's
25 comments about how people want to be approached. But also
26 with regard to an issue that I think really goes to what

1 Bernie has been focusing on and that is kind of structural
2 incentives that drive things regardless of these specific
3 choices.

4 What I mean is the following: I have a feeling
5 that no matter what you choose as specific policy that it
6 will be overwhelmed by driving forces like the scientific
7 imperative which will always give incentives for people to
8 go out and say there is a good reason to want to know
9 something, that is one of the very important lessons of
10 Tuskegee, which leads to really over arching decisions
11 about whether the overall thrust of the approach at the
12 federal level ought to be one that is protectionist and
13 always on the side of protectionism or is one that tries to
14 get a more kind of nuanced balance between research that
15 offers an opportunity to subjects versus research that does
16 not.

17 I think that those questions cannot be answered
18 in a vacuum, but have to be answered against these kind of
19 structural forces.

20 Second, a more nuanced attention to the actual
21 uses of information. For example, in the area of genetics
22 a lot of concern is focused on health insurance. Alex, I
23 will defer to for sure because he has been working on this
24 issue for a long time. But it strikes me that the
25 existence of large population based programs in which
26 people are automatically entered through their employer, et

1 cetera, to the extent that they grow really changes the
2 nature of the potential for use of individualized genetic
3 information as opposed to the continuing kind of
4 demographic epidemiological based stuff.

5 Paying attention to the structure of things out
6 there may make it easier to identify the real trends that
7 may drive things so that you might want to have some kind
8 of counterbalancing force via regulation.

9 And finally on that list would be a genuine --
10 I am sorry, I also left off this paper -- the way in which
11 we approach not only the researcher's financial and
12 professional interests in pursuing their research and
13 obtaining subjects, but in the whole phenomenon of
14 compensation for subjects, both financial inducements as
15 well as compensation in the event of injury.

16 The Canadian report comes out very strongly
17 suggesting that compensation should not be very high for
18 people that do not have high incomes because you do not
19 want to induce them to become subjects. On the other hand,
20 it seems like therefore you pay poor people less to take
21 the same bodily risk as rich people.

22 You know, as a professor who teaches torts and
23 all the questions around damages, I am familiar with the
24 fact that this is insoluble. But I think a much closer
25 look at this whole phenomenon might pay off in helping to
26 balance that and whatever decisions you make there against

1 how protectionist your whole approach is going to be when
2 it comes to which kinds of subjects you enroll.

3 DR. SHAPIRO: Thank you.

4 Jim?

5 DR. CHILDRESS: My comments will echo and build
6 on the important points that my colleagues have already
7 made. I would start from one of Zeke Emanuel's comments
8 about we already know the over arching principles.

9 I believe the language that appears in the
10 charter or in the authorizing document along those lines,
11 Congress meant really to distinguish our enterprise from
12 regulation from making judgments about specific protocols
13 because it seems to me -- and we heard Dr. Gibbons say
14 today -- that really the task to a great extent is that of
15 interpretation. But interpretation of those broad over
16 arching principles, if we assume that we have some
17 consensus in the society about those, involves at least two
18 things.

19 Zeke mentioned balancing and that is certainly
20 an important one. But also making these principles more
21 concrete and specific for particular areas. Areas that we
22 may not have covered as well in the past such as, something
23 that several on the committee have a particular interest in
24 this area, contemplating paired subjects. But one might
25 also add areas that we have not covered such as a lot that
26 is going on in the area of research involving

1 collectivities. I would say particularly health services
2 research, outcomes research, an area that we are really not
3 paying that much attention to from the standpoint of
4 evaluation.

5 Several colleagues have also mentioned, and I
6 would strongly affirm the need to pay attention to
7 structures, and by this I mean first of all the structure
8 of IRB and its role in the overall system of evaluation,
9 approval and monitoring of research involving human
10 subjects, but we really do not know a lot about how that
11 works in practice. Just glancing over the GAO report I am
12 not sure how far this takes us. It may well be this is an
13 area where we will need to commission some research in
14 order to become really very learned to know what kinds of
15 changes perhaps should be recommended. And to attend
16 to the competing structures that may well be at work also.

17 And I would suggest that structural point comes
18 into play in the area of genetics as well where at NIH and
19 the Human Genome Project there is reconsideration now of
20 the role of the RAC, the role of the Ethics Working Group,
21 and without in any way suggesting how I think those things
22 ought to come out, it seems to me that we ought to look
23 very carefully at this process evaluation and determine
24 whether some alternative structures may be needed to make
25 sure that some of the legitimate concerns are met such as
26 public participation, accountability and the like.

1 DR. SHAPIRO: Thank you very much.

2 Tom?

3 MR. HOLTZMAN: Rhetaugh Dumas has been trying
4 to get on your list for quite a while.

5 DR. SHAPIRO: I am sorry. I will call on you
6 in a second. I am sorry.

7 DR. DUMAS: Thank you.

8 DR. SHAPIRO: Tom?

9 DR. MURRAY: Thank you. First about research
10 ethics. I have been trying to listen carefully to the
11 remarks of my fellow commissioners and see if I can
12 categorize what strikes me as the central issues that we
13 probably ought to have on our agenda and you can tell me if
14 I have got it wrong or if I am at least close to the mark.

15 I have put it in four categories. One is
16 community involvement, involvement generally of communities
17 and relationship with communities to researchers and the
18 scientific enterprise. I agree that has been
19 insufficiently discussed.

20 The NIH Task Force which had a very long name
21 that was essentially looking at research on violence tried
22 to give emphasis to this, a piece of what we thought was
23 important. Communities do care about research on violence
24 in communities.

25 The second category has to do with adequacies
26 or inadequacies of the current IRB system and we have had a

1 long list of possible deficiencies and worries about IRBs.

2 Third, and I say this with great caution in the
3 year of the 50th anniversary of the Nuremberg trials, which
4 those of you who are in ethics will remember that the first
5 sentence of the first principle of the Nuremberg Code says,
6 "The consent of the human subject of research is absolutely
7 essential." Nonetheless it is not the whole story.

8 There are large classes of human beings,
9 persons, who cannot give their consent because they are too
10 young, too demented, too mentally ill, or otherwise not in
11 the position to have -- to give an informed consent in a
12 way that we regard as knowingly meaningful. And I think
13 that the -- our discussions and perhaps also our IRB rules
14 have not always done the best job of sort of understanding
15 what is morally significant about those kinds of research
16 relationships.

17 So, I think, a look at informed consent. Not
18 to dislodge it where, in fact, it is an absolute
19 requirement, that is with competent subjects, but in places
20 and for groups where it simply cannot be the whole story we
21 need to take another look.

22 And the fourth category under research ethics
23 is at this point a miscellaneous category. As mentioned
24 compensation and issues of equity and also noncoercive
25 compensation. There have been some other issues as well.

26 I am going to speak a bit about genetics

1 although I suppose some of that conversation will also be
2 looked at by Francis in Francis Collins' participation this
3 afternoon.

4 Genetic information is a part of our mandate.
5 I hope that we will tackle some questions that are, I
6 think, just beginning to be addressed and those questions
7 like is genetic information genuinely distinctive and
8 different from other kinds of information related to
9 health. Should we treat it as different from those other
10 kinds of information? Does treating it differently have
11 generally overall good results or is it, in fact, a
12 contribution to what I take it sometimes to be an
13 overselling of the importance of genetics and human life
14 and welfare? Does it contribute to such things as genetic
15 reductionism and genetic determinance?

16 There continues to be concern about genetics
17 discrimination. Is it appropriate that a woman who happens
18 to have a mutated form of the BRCA-1 gene, a gene that
19 predisposes to breast cancer -- if you have a mutation in
20 it you have about an 85 to 90 percent lifetime risk of
21 breast cancer -- should a woman who has that gene,
22 therefore, have difficulties getting health insurance
23 coverage because of that? There have been concerns about
24 genetic privacy and, in part, that question is subsumed, I
25 think, under the first set of questions I have asked, that
26 is are genetics different. But clearly many people find

1 possible release of information about genetics information
2 about them especially threatening.

3 And I also note that in our mandate the issue
4 of gene patenting came up. I think that might be a
5 particularly good issue for us to take on because I suspect
6 there is a lot of opinion out there about gene patenting.
7 But I suspect it is also fairly thick as people have
8 thought a great deal about what is good or bad about the
9 patenting of genes.

10 The last word about our mission, as I conceive
11 of what we can do, I want to be very practical about it so
12 I endorse everybody who I think has spoken so far who has
13 also said we ought to do something and not just talk. I
14 want to say in the course of that doing I think our job --
15 I would urge that we not think of our job as simply
16 contributing to the government decision making. But rather
17 as promoting a dialogue among the broader public about
18 these issues. If all we do is even provide very sage
19 counsel to Congress and the executive branch then that is a
20 good thing, but that is only part of what I hope we will
21 do. We will, in fact, encourage a very broad public
22 debate, an informed public debate about the issues we take
23 on.

24 Thank you.

25 DR. SHAPIRO: Thank you. Alex?

26 PROF. CAPRON: The comments that I want to make

1 will go over some ground, but it maybe useful just because
2 it gives an indication of those areas which, independent of
3 the comments of fellow commissioners, I regarded as being
4 important.

5 I want to frame this by saying I think we need
6 to figure out, both because our life is of indefinite
7 duration and because our budget is -- although not
8 inconsequential -- not enough to do everything that we
9 might want to do. How we are going to do what we do, that
10 is to say by having research projects or investigators or
11 calling witnesses, or whatever, that will issue from this
12 report of this commission, and what are the things that we
13 see the need for others to do that they have a potential
14 capacity for doing but maybe are not doing it at a
15 sufficient level in our view, both within the government
16 and without.

17 On the immediate agenda I suppose I would agree
18 with several of the comments that have been made today. I
19 think the persistent issue of compensation of subjects is
20 something that has been around -- for injuries is something
21 that has been around as a topic for a long time and there
22 have been a number of reports on it. I am not even quite
23 clear where we are in the status of that beyond the
24 published rule and how much is going on, on the subject.

25 The failure of the adoption of the National
26 Commission's recommendations vis-a-vis research on the

1 mentally ill and institutionalized. The need for careful
2 consideration of different rules that may apply in
3 epidemiological research and the grave under representation
4 of research in that area which has hampered the development
5 of a real understanding of issues that arise out of the
6 work place and the environment, and so forth.

7 Changes in the paradigm of research. We used
8 to think primarily of the need to protect people from being
9 in research projects in which they would be harmed. The
10 HIV epidemic has changed the view of potential research
11 subjects to claims about the right to be a research subject
12 and the right to access the untested means. And it has
13 really caused a C change in some ways at least in the way
14 some research is conducted, and I think a way to evaluate
15 it by OPRR and FDA. And yet we have not really talked
16 about what difference that should make for the paradigm
17 that we are employing.

18 The quality of the IRB process has been
19 mentioned and I have always been curious by our absence of
20 a real definition of why we have diversity in those
21 committees. Is it a representative function? I mean,
22 should the person who happens to be a noninstitutional
23 person think of all the communities? If it is a woman, if
24 it is a minority, if it is a person of particular religious
25 views, is that person a representative of those views at
26 the table or are they a committee member like the

1 scientists or physicians who happen to sit on the
2 committee? Or do those people represent the interests of
3 science or medicine there as opposed to applying judgment?

4 But we have never really explained why it is we
5 have this group of people. Therefore, I would expect that
6 the kinds of differences that Zeke has experienced in the
7 multi-institutional world of multi-institutional studies
8 can look as though we have a lot of chaos going on because
9 different committees see their roles differently. Is that
10 good or bad? I mean, I do not know that we know. Maybe it
11 was good that some of those committees rejected you and
12 some accepted. It may have reflected legitimate factors as
13 opposed to just arbitrariness.

14 Our expectations of the oversight by OPRR and
15 its sister bodies and other agencies. How well is the
16 common rule working? People talked this morning. I think
17 we had several comments suggesting there was a need for
18 somebody to be looking at the whole thing. Well, there is
19 supposedly some interagency coordination on that which I
20 think OPRR is taking the lead. I would like to know more
21 about that. That might be an example of something that is
22 really happening or it could happen at a greater level. We
23 do not have to take that on necessarily, but we would need
24 some assurance that it is happening.

25 In the genetics area I think the gene patenting
26 issue is absolutely one we have to talk about, not only the

1 patenting of animals, but of human genes. This is
2 something where I think that the patent trademark office
3 has felt itself constrained by the statutory language and
4 not in a position to make policy, although in effect they
5 have made policy.

6 We need to talk more about the means of and
7 reasonable expectations for privacy about genetic data and
8 to ask the question that Tom Murray just mentioned. Is
9 genetic information that different? There have been a
10 number of attempts and there is a model bill to protect
11 genetic information very differently. Perhaps all that
12 does is give people a false sense of this being something
13 different.

14 I mean, there is a lot of genetic information
15 that has been collected. It just has not been labeled
16 genetic along the way. I mean, family histories are a form
17 of genetic information. They have not excited quite the
18 same concerns, but perhaps the molecular based information
19 ought to be different. That is something that needs
20 further thought.

21 If those are the most immediate things I think
22 we need also a process for figuring out how new topics will
23 come to our agenda and be prepared for us so that we do not
24 just start at the beginning of a topic where there is a
25 little bit of prior work where we could get up to speed
26 more readily.

1 Mention was made by Jack, I was interested
2 about the ethics of the allocation of federal research
3 dollars, how decisions are made, and the way in which -- I
4 mean, a decent economist will tell you that the allocation
5 of funds is a set of implicit ethical judgments. One could
6 say also the ethics of health care reform, and I would
7 think both of those would be good topics to have.

8 The reproductive developments have been an area
9 which interestingly none of the past commissions have dealt
10 with. The group -- the congressional body was starting off
11 by looking at some of those and perhaps that was one of the
12 reasons for its demise.

13 The issues of organ and tissue transplantation,
14 an area which has sort of slid into the background of
15 people's thinking. There remain marked racial disparities
16 in the rate of organ transplantation and in the rate of
17 organ donation. The whole set of rules which are full of
18 ethical judgments behind the way in which potential
19 recipients are graded and so forth are largely in the hands
20 of the experts who are engaged.

21 There is an active process which is very
22 broadly based in that community of setting those rules and
23 these issues are debated, but I do not think they have had
24 very much public attention of late. And within that there
25 is also this emerging issue of the new technology of the
26 transplantation of human stem cells from cord blood and the

1 potential interest which has generated already extensive
2 commercial activity. And in some ways that is an example
3 that may offer us an opportunity to get into concerns which
4 I think the public has about the ways in which basic
5 scientific discoveries are so quickly commercialized to the
6 apparent financial advantage of a few people.

7 So I hope that we make some decisions both
8 about how we will figure out those things which we want to
9 focus on and those things which we may not be capable of,
10 but we do not want to push off our table and we want to say
11 let's find out what is happening here. And if we do not
12 think the efforts are all that they could be, recommend
13 ways in which these other structures can deal with it.

14 DR. SHAPIRO: Thank you very much.

15 David, then Rhetaugh and Laurie.

16 DR. COX: The first thing I would like to do is
17 just make a comment about genetics. Many people have
18 brought up the point about genetics. I think that I share
19 some of Tom Murray's concerns that the great interest in
20 genetics in our society is a plus and a minus. The plus is
21 it gives you an opportunity to get people's attention. The
22 minus is people look at genetics in a very deterministic
23 way and it will make things simpler. So I would like to be
24 aware of both of those on our commission and I would like
25 to use genetics in the plus way.

26 The plus way is a specific starting point for

1 more general problems. Zeke said this very nicely I
2 thought. He said that you do not want to get rid of the
3 bigger philosophical, bigger picture, but yet you have to
4 have some specific place to start. And I think genetics
5 gives us that. It is just a starting place for some
6 specific things that we can get our teeth into. But I
7 would like to say that I would only like to consider those
8 that have broader implications outside of genetics.

9 So one of those areas is in the area of
10 informed consent let's say. We have already heard informed
11 consent goes extremely broadly in many different areas, but
12 there is some pertinent issues with respect to informed
13 consent in genetics. So that may be a place to get
14 started.

15 As an example, stored tissue samples in terms
16 of tissue banks, it really has people's attention because
17 it is a practical problem. It has real genetic
18 implications, but it has broader implications for informed
19 consent. So I am not saying, you know, stored tissue is a
20 specific thing we should do, but it is an example of a
21 process.

22 The second point I would like to make,
23 particularly after the past three years dealing with
24 ethical, legal and social issues in genetics in the Genome
25 Project, is that we are not at a loss of facts on these
26 various issues. There are more statements published on

1 each of these areas that we could all read. Every society
2 has their statement and their point of view. Zeke brought
3 this up in the context of IRBs, how do you adjudicate how
4 you put this together?

5 You cannot have -- well, actually Alex brought
6 this up, too. You can, in fact, have 200 different points
7 of view and maybe they are all valid. That is one thing.
8 Or you could try and adjudicate them into one point of
9 view. I would just say my personal observations are these
10 individual statements that are made by the individual
11 groups. I do not have to have the name of the group that
12 wrote the statement. It is implicit in their
13 recommendations. So there are stakeholders' aspect of this
14 are all over the recommendations.

15 I think this commission has a special
16 opportunity to be able to take all these facts the
17 different groups have put together and say should there be
18 40 things or can we as a -- we each have our own stakes,
19 but as a commission can we put this together in a straight
20 forward set of recommendations that people can follow so we
21 do not have to get it from the IRB.

22 The final thing that I would like to say is
23 this issue about an IRB. Every -- the different groups I
24 have been involved with in genetics, all the solutions end
25 up being and the IRB will be the one that adjudicates them.
26 I am extremely concerned about this because -- not because

1 I do not think IRBs can do it, but I do not think -- I
2 think we have to pay a lot of attention if all of our
3 implementation is through IRBs then we better pay a lot of
4 attention to can they do it or helping them do it better.
5 Or even come up with a different model, which I do not have
6 in mind, and I would really like to hear people's views of
7 what other models there are besides IRBs.

8 DR. SHAPIRO: Thank you.

9 I would just make one comment on the stored
10 tissue issue because I expect that Dr. Collins will talk
11 directly about that issue. It is a very interesting issue
12 and I expect he will talk more about that this afternoon
13 and we can have some discussion with him.

14 David, that is a question at that time.

15 Rhetaugh?

16 DR. DUMAS: Yes. I certainly share many of the
17 concerns that have been voiced already and I would like to
18 urge that we find ways to tease out in our considerations
19 ethical issues that are related to who gets chosen to
20 participate in the research and who are the major
21 beneficiaries of the outcome of these studies. I think
22 that has been alluded to in many of the comments that I
23 have heard.

24 But I believe that it is very important to
25 consider who is -- what kind of decisions really influence
26 the opportunities that are available to become a part of

1 the subjects -- to become a subject in the research, or the
2 kind of decisions that influence what the subject of the
3 research is going to be and who will benefit, as well as
4 the measures to protect their rights and their welfare.

5 DR. SHAPIRO: Thank you.

6 Laurie?

7 MS. FLYNN: I will not restate the views of the
8 others because I certainly endorse them. I think we have
9 identified a series of topics that are very important and I
10 look forward to participating in them.

11 I want to try to represent perhaps a little bit
12 more of a lay oriented response to the discussion and
13 acknowledge that we are operating at a time when our public
14 out there, our general public, those individuals who are
15 not trained as ethicists, those individuals who are not
16 trained as scientists, who do not know what IRB stands for,
17 and who are generally not in touch with the language and
18 the issues that have been on discussion in this room.

19 There has been over the last some years, I
20 think, a disturbing loss of competence in our ability to
21 make these tough decisions. A sense that there is no value
22 based well understood moral framework that undergirds what
23 it is that we are about. I think that is a significant
24 issue. I think it is significant if the general public has
25 both an enormous hope for research and yet a deep suspicion
26 about the research process.

1 I think it is more troubling when organizations
2 and patients who have been traditionally strong supporters
3 of research find themselves less than totally confident
4 that these issues are being well and substantively
5 addressed. Some of that lack of competence is because
6 those of us who represent the patient and family concern
7 have not been well and substantively represented in the
8 dialogue.

9 So as we look at our work and we have
10 identified some critically important issues, I certainly
11 agree with the shape of the agenda that has been
12 articulated, I would ask that we think about not just
13 perfunctorily, but meaningfully and specifically, seeking
14 ways to engage those who are the subjects of research, to
15 engage those who are most impacted by some of the moral
16 dilemmas in research difficulties that we have addressed,
17 and really use this commission as an opportunity to do some
18 of the education beyond our own community research
19 advocates and ethicists, but some education of the public.

20 The public, who all at some point in their life
21 will be touched by these issues and we do not know when
22 that will be. We do not know how that will occur, but one
23 would like to think that folks at that point would feel
24 both capable of making good decisions and confident that
25 the establishment supports wise choices.

26 I would, I guess, close by reminding us that if

1 we do not find ways to do this job well and meaningfully,
2 and substantively involve those whose lives are affected by
3 these decisions, we may find that some of our friends in
4 the political arena will, in fact, take this task from us.
5 I think none of us would see that as the preferred outcome.

6 DR. SHAPIRO: Thank you.

7 Steve?

8 MR. HOLTZMAN: Thank you. I would like to
9 start off with just some sort of primary pragmatic thoughts
10 about how do we do whatever it is that we want to do and
11 how are we going to get it done. People at this table have
12 said they want to accomplish something. We have an
13 incredibly broad agenda since it also includes the meta-
14 agenda of take on anything you think is important. But
15 getting a little more pragmatic, the charge to us seems to
16 me to have two major elements right in front of us,
17 protection of research subjects is one, genetics is
18 another.

19 If you take that on its face, I do not think
20 necessarily the idea of using genetics as an exemplar of
21 protection of research subjects is necessarily the best way
22 at it. So how does the committee go about asking the
23 question of what are we going to do if we want to take on
24 both of these pragmatically? Do we set up two working
25 groups? I would be interested in a discussion by the
26 committee of how to get the job done and, for example, if

1 we want to take on these two that we want to focus.

2 DR. SHAPIRO: Let me -- you have other things
3 to say so let me just apologize.

4 MR. HOLTZMAN: Okay. So that was just one. In
5 that context, given that I come from a genetics genomics
6 company, I want to put forth a plea for keeping genetics on
7 the table as an important subject and not just focusing on
8 the protection of research subjects. And maybe in the
9 spirit of Alex's statement that maybe you should -- this is
10 an opportunity to introduce everyone to you. I wrote some
11 thoughts this morning about why I felt it was important to
12 be sitting here and if I can read them -- and it has to do
13 with why genetics, I think, is very important to this
14 commission.

15 It is that the explosion of knowledge of the
16 biological underpinning of ourselves arising from the Human
17 Genome Project and the biotechnology evolution holds
18 enormous promise for the new practice of medicine. However
19 these same technologies pose the potential undoubtedly for
20 misuse, to stigmatize, to terminate, or to promote social
21 agendas for human improvement as conceived by this or that
22 group.

23 These technologies as they provide us with a
24 new understanding of the basis of ourselves as physical
25 beings also challenge our concepts of ourselves as self-
26 determining beings and, indeed, as spiritual beings.

1 Respecting the profundity of these challenges,
2 acknowledging and addressing the deepest platitude that
3 this technological evolution occasions, and providing
4 safeguards against the misuse of guidelines for the social
5 responsible use of the biology are to my mind the
6 preconditions of our societies realizing the benefits of
7 the biology evolution.

8 Particularly for those of us who would seek to
9 profit financially from the new biology we have a special
10 responsibility to the public to participate and encourage
11 more enlightened discourse on the implications of the new
12 genetics.

13 The lesson of the new genetics is not the
14 differences that should set us apart, but rather the
15 diversity that should be the cause for our celebration.
16 And the lesson of the new genetics is not that genes are
17 destiny, but rather the profoundly complex interaction of
18 our underlying biological selves with the environment,
19 including our social environment.

20 What I would like to see this commission do is
21 somehow play a role in moving the discourse forward so that
22 we can have the new terms of debate which will allow us to
23 have an underlying social policy.

24 DR. SHAPIRO: Thank you very much.

25 Let me just make one brief comment before we
26 allow people to break for lunch and it has to do with an

1 issue which has come up in a number of different comments,
2 that is, you know, people's expressions let's do something,
3 let's not just talk, or other versions of that plea, of
4 course, which I think is really extremely important to the
5 point.

6 Let me remind the commission that we have one
7 very specific task, which is essentially mandated before
8 us, and that is to review the status of the work in the
9 various agencies regarding human subject protection. Each
10 agency has made a report and we have that report. Those
11 reports need to be evaluated and that is a very simple
12 task. But it seems to me that within that task we will
13 have a capacity then to, one, evaluate the status quo, but
14 then to ask ourselves a question. Is the status quo
15 working and how should it be altered? In what way should
16 we try to sculpt the future in this area?

17 So that is a task which is right before us. It
18 incorporates many of the issues brought up today regarding
19 human subject protection within it because, for example,
20 how do you deal with dependent populations, however those
21 are defined, and so on. It does not deal directly with the
22 genetics issue, but certainly it has come up that genetics
23 also has a version in here which might be helpful.

24 I just wanted to tell the commission that I
25 have asked Jim if he would head a subcommittee of this
26 commission in order to draw out and articulate a thoughtful

1 agenda of how we would approach that general area. The
2 staff very early on, i.e. beginning Monday, will be looking
3 at all these reports and do the staff work necessary to
4 evaluate those in a manner that can help the subcommittee
5 and any other member of the commission that is interested
6 in seeing exactly where we are now.

7 That would be the first stage. The second
8 stage would be, of course, to develop an agenda which takes
9 us forward from whatever the status quo is now.

10 So it seems to me that is, relatively speaking,
11 an easily defined project. We will find some mechanism as
12 we go along and as both the staff and Jim makes some
13 progress to keep each other informed so we can have some
14 interaction regarding how this agenda gets formed,
15 evaluation and so on, so that by the next time we meet we
16 have a really pretty good work product before us.

17 One intention is for the committee to have a
18 report each year. It does not matter, that is my
19 intention, not we are required to have a report each year,
20 so that is not an innovation I am making in some sense.
21 But it seems to me that we need to know fairly soon, no
22 later than next month or two, just what in a general way is
23 going to be in that report. But I very much hope at the
24 current time the human subject protection will receive a
25 big part of the attention in that report.

26 In that connection I would like to know from

1 members of the commission, I am not going to ask you to
2 raise hands now, whether in the two areas we are certainly
3 going to have to identify an agenda right away -- one is
4 human subjects protection I have already talked about. The
5 other is the genetics area. We have not yet focused and we
6 do not have articulated for us quite so neat a program. We
7 will have to do that ourselves. I would like to know which
8 commission members really have a preference for working in
9 one area or the other as we begin to put these
10 subcommittees together.

11 I have to tell that I will treat silence as an
12 indication you do not mind which one you are assigned to
13 since I think all members ought to participate in these
14 ongoing developments. So we will have more time this
15 afternoon to talk about these issues and hear your response
16 to what I have just said and talk more on the genetics
17 issue.

18 Just before we break I think Pat wanted to make
19 an announcement.

20 MS. NORRIS: This announcement is for the
21 press. I believe we have about 15 members of the press
22 with us today. Once we break, Dr. Shapiro will be
23 available to answer your questions only for about 15
24 minutes because he has to have lunch, too. We invite you
25 to join us down in Conference Room 6.

26 PROF. CAPRON: What is happening with our

1 photograph?

2 DR. SHAPIRO: That is what I will mention right
3 now. For those of you who are particularly photogenic
4 there is a -- we hope that includes all of you --

5 (Laughter.)

6 DR. SHAPIRO: -- photographer and he would like
7 to take a photograph of the commission and he will do so at
8 12:50 in Room 6, which is right at the other end of this
9 hall. Conference Room 6.

10 So enjoy your lunch and be back there by 12:50.
11 Thank you.

12 (Whereupon, a luncheon recess was taken at
13 11:50 a. m.)

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A F T E R N O O N S E S S I O N

2

(1:09 p. m.)

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DR. SHAPIRO: Colleagues, if I could have your attention, please.

4

5

I just told Dr. Collins that perhaps our commission has had a hard time recovering from the photograph we just took.

6

7

8

(Laughter.)

9

In which case he wanted to know if we had the informed consent of all those involved for this particular piece of work.

10

11

12

Well, needless to say it is a great personal pleasure to welcome Dr. Francis Collins, as you know, Director of the National Center for Human Genome Research, here to our first meeting.

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I knew Dr. Collins first when he and I were both at the University of Michigan. But I think all of us know him from the work that he has done both prior to becoming director of this important project, and now certainly as director of this project.

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So I have asked Francis to come here this afternoon to share some observations that he might have, some ideas he might have, and then we will follow that with discussion both amongst ourselves and with Dr. Collins.

22

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25

Francis, thank you very much for being here today.

1 PERSPECTIVES

2 DR. FRANCIS S. COLLINS

3 DIRECTOR, NATIONAL CENTER ON HUMAN GENOME RESEARCH

4 DR. COLLINS: Well, I must say I am really very happy
5 and honored to have a chance to come and speak to this
6 group on its first meeting and to be given such a generous
7 allocation of time which I will try not to abuse.

8 I would certainly like to extend my personal thanks to
9 Harold Shapiro for the way in which he has pulled this
10 group together for this first meeting and the open way in
11 which he is organizing the dialogue, the multilogue, that
12 we are all being part of here today.

13 It is interesting, October 4th seems to be an ELSI
14 extravaganza because half a mile from here in the Holiday
15 Inn in Bethesda we are in the middle of a very intense
16 meeting talking about employment and genetic information,
17 and the possibility for discrimination in the work place
18 based upon what people find out about your genes. Out of
19 that meeting we hope will come some interesting
20 recommendations about protections that are beginning to
21 emerge in some states, but certainly have not emerged at
22 the federal level.

23 So I apologize that on account of that meeting I was
24 not able to be with you this morning and I will also have
25 to dash back over there this afternoon to help lead the
26 final discussion, which we hope will produce some results,

1 but that does not reflect in any way my enthusiasm for what
2 you are doing, which is enormous.

3 Many times I have been asked over the course of the
4 last year-and-a-half what was the view of the Director of
5 the National Center for Human Genome Research in having a
6 commission that was going to be looking at genetics. After
7 all isn't that what the ELSI Working Group, the Ethical,
8 Legal and Social Issues Working Group of the Genome
9 Project, is already doing? I must say from the very
10 beginning my answer to that has been this is a wonderful
11 idea. This is a wonderful potential for a partnership.

12 The ELSI Working Group, some of whose past and present
13 members are on this commission, has been, I think, a
14 wonderful think tank, a way of looking in very significant
15 detail at genetic issues. But perhaps what that group has
16 lacked in some circumstances is a higher location in the
17 scheme of things and having a commission whose members are
18 appointed by the President who has the kind of visibility
19 that this group has and will have is to my view a wonderful
20 development and I certainly am delighted to see that it has
21 come to pass.

22 And from my own personal vantage point I would like to
23 say how grateful I am particularly to Senator Hatfield for
24 the way in which he helped keep this idea alive and to the
25 Administration, the President, for seeing the wisdom of
26 this and putting together this very remarkable group of

1 participants.

2 I do want to mention there are some ELSI alumni in the
3 room and I may have mentioned them as we go along,
4 particularly perhaps Tom Murray and David Cox. Tom has
5 been on the ELSI Working Group and David Cox currently is.
6 But there is much to be done.

7 I am not going to talk about topics outside of
8 genetics. You will probably be glad about that. You have
9 enough other items on your agenda. But I am going to try
10 to do a couple of things. One is I want to give you a
11 brief snapshot of where the Human Genome Project is because
12 I am not sure that is something which has been explained to
13 everybody in this group in the last month. And if it was a
14 month ago that you heard about it, it might now be out-of-
15 date because that is the way this project has been moving
16 really at quite a dizzying pace.

17 I want to then put a human face on that in terms of
18 what does this mean for patients and families who are
19 facing the prospect of illness as a consequence of
20 genetics. Then I want to review what the ELSI Program has
21 considered to be the major issues and I will break them
22 down slightly differently perhaps than they have been
23 before.

24 And along the way I am going to suggest from this
25 rather humble view of the Director of the Genome Project
26 not expecting really that you would necessarily share all

1 these views that there are perhaps three areas that this
2 commission might consider becoming involved in a
3 significant way, and I will suggest two projects which are
4 perhaps more short-term and one which is more challenging
5 and more long-term, and I will identify those as we go
6 along, and hopefully we can have some discussion about
7 them.

8 So that is what you are in for here and I guess I need
9 to have the -- the slide is already on. All I have to do
10 is push the button and maybe the lights down a little bit
11 in the front.

12 (Slide.)

13 Just to remind you, those of you who have not been
14 part of a government commission, I do not know if you have
15 seen this cartoon in the New Yorker. If you cannot read
16 the caption, there are these two folks wandering around
17 through hell with various awful things happening in the
18 background and one of them is saying to the other, "On the
19 other hand it is great to be out of Washington." So
20 imagine what you have walked into by joining this
21 commission. Welcome to wherever it is that we are here.

22 (Slide.)

23 Now what I am going to talk about is much discussed in
24 the media, of course. Genetics is everywhere around this.
25 This recent issue of Time magazine focused on genetics
26 pointing out that the future is now and you might say that

1 that is a bit overstated and perhaps it is a little bit.
2 But the way that things are going it is hard to imagine
3 where we may be in a few years considering the discoveries
4 that are going on in genetics.

5 Notice, however, there is a subtext to this cover,
6 "New breakthroughs can cure diseases and save lives, but
7 how much should nature be engineered?"

8 I think it has been one of the more positive things
9 about the Genome Project, was the incorporation of
10 considerations about the ethical, legal and social
11 implications along with the scientific effort, which was
12 something that was decided at the beginning, and that is
13 what the ELSI Program is about.

14 I think at this point we have made considerable
15 progress. In your briefing books there is a five-year
16 report on the progress of the ELSI Program which goes
17 through a number of the research projects that have been
18 funded and deliberations that have been carried out. I
19 think that is well worth having a look at as a summary of
20 this first five years of the ELSI experiment.

21 (Slide.)

22 Now the fuss about genetics relates to the fact that
23 virtually every disease can be thought of as having some
24 genetic component. I think until fairly recently genetics
25 in clinical medicine was that subspecialty devoted to the
26 study of relatively rare conditions caused by single genes

1 gone awry. But that is really much too narrow a view and
2 the advances in the Genome Projects and gene discovery are
3 making it ever more practical to identify the risks that we
4 all carry.

5 It is estimated that we all have four or five genes
6 that are seriously misspelled and perhaps another ten or
7 twenty, or more that have variant sequences that might have
8 been advantageous in some past environment but are not
9 deleterious and, therefore, places us at risk for things
10 like diabetes or hypertension, and a long list of others.

11 So, in fact, while virtually every disease has a
12 genetic component one needs to be careful not to,
13 therefore, say that all diseases are purely genetic. That
14 is not the intention of the analysis, but rather to point
15 out that every disease is an interaction between some
16 environmental contribution and genetics.

17 Even AIDS we have learned in the last few months is in
18 some sense predicated upon host factors that are
19 genetically inherited. We know now that one percent
20 roughly of the caucasian population is immune to HIV
21 infection on the basis of a genetic inherited alteration in
22 a cell surface protein. If you are missing that protein
23 the virus is unable to get inside your cells. So even an
24 environmental disease like AIDS has a genetic contribution.

25 The point of this slide really is to say what we are
26 talking about when it comes to genetics is not about some

1 subset of the population. It is really all of us. We all
2 have these risks. There are no perfect genetic specimens.
3 We are hurdling towards a time where individual
4 susceptibilities will be determinable on the basis of
5 technologies that allow your DNA sequence to be sampled and
6 statistical predictions to be made about your future risk
7 of illness.

8 That is both an enormously exciting paradigm for
9 preventive medicine and potentially a very worrisome
10 situation where the fact that that information might be
11 misused rather than used for your benefit tends to cloud
12 the optimism about the future and I think this commission
13 will clearly spend a good deal of time worrying about those
14 clouds and how perhaps to take care of them.

15 Now the reason it is an optimistic view is that by
16 identifying individual predispositions it should then
17 become possible to practice the kind of preventive medicine
18 that we could have only dreamed of in the recent past where
19 you focus your efforts on the actual disorders that that
20 individual is at risk for as opposed to doing sort of one
21 size fits all preventive medicine recommending the same
22 thing to everybody, which is currently largely what we do.
23 Obviously we are not at that point for many diseases, but
24 we are getting close to that for, for instance, breast
25 cancer, ovarian cancer, colon cancer, and a number of
26 others as I will perhaps touch on as we go along.

1 (Slide.)

2 Now if a disease has a genetic component that means
3 that somewhere written within the DNA sequence there must
4 be some difference in the people who are predisposed as
5 opposed to those who are not. This is basically the
6 justification for putting our energies into doing the Human
7 Genome Project, is to try to uncover the genetic basis of
8 virtually all diseases, the code for which is going to be
9 written into the three billion base pairs of a human
10 genome.

11 (Slide.)

12 The Human Genome Project, started in 1990, had the
13 audacious goal of finding the entire blueprint, reading out
14 all those three billion base pairs in a 15 year period,
15 that is by the year 2005. And as I am about to explain to
16 you that is actually going somewhat ahead of schedule
17 despite the fact that the budget for this has never reached
18 the levels that were initially thought to be necessary. So
19 we do have a federally funded project that is ahead of
20 schedule and under budget which astonishes many people.

21 (Slide.)

22 Now what were the goals of the Genome Project? They
23 were actually rather simple. It is helpful to think of the
24 project itself as sort of building infrastructure which the
25 entire biomedical research community then has the ability
26 to use and is using at a vigorous rate. The infrastructure

1 that the Genome Project is trying to produce comes in three
2 sort of flavors. There is a genetic map part and a
3 physical map part in the DNA sequence. Let me just quickly
4 explain each and tell you how we are doing.

5 What do you need genetic maps for?

6 I cannot seem to focus that from up here so if
7 somebody was sitting near there who could touch the focus
8 button that would be very nice. If not, we can manage, I
9 guess.

10 The genetic maps are collections of markers, here
11 labeled A through G, which vary a little bit from one
12 individual to the next. So that means that you can track
13 their inheritance through a family. Now if that happens to
14 be a family that has a disorder such as diabetes or
15 schizophrenia, or a susceptibility to cancer, and you find
16 one of these markers that tends to successfully predict who
17 has the disorder, that tells you that the gene or genes
18 that confer susceptibility to that disease must include at
19 least one that is close to this marker that you are
20 following. That is the strategy called linkage. What is
21 linked is your piece of DNA which you possess and which you
22 followed in this family with the disease gene that is
23 causing the susceptibility.

24 Now that is a very powerful concept. It is a concept
25 that is really only about 16 years old and when it was
26 first put forward in 1980 I think most people thought it

1 would take decades, maybe a century, before you could
2 actually apply it to human diseases. And yet that concept
3 has allowed us to map hundreds of human conditions and to
4 actually find the precise gene involved in more than 60 of
5 them. Conditions where we previously had no clue of what
6 the biological basis of a disease might be.

7 So these genetic markers, which in order to be useful
8 have to be scattered over all of the human chromosomes,
9 because you do not know when you start where the disease
10 gene is going to be, are the first step in getting a
11 disease gene identified.

12 (Slide.)

13 We thought, well, we would need perhaps 1,500 of these
14 in order to have a pretty good splattering across all the
15 chromosomes and we thought that would take us until the end
16 of '95. And as you can see, that goal was exceeded clear
17 back in 1993 and now in 1996 with over 10,000 of these in
18 hand it is fair to say we really have an excellent genetic
19 map.

20 There is no reason you cannot map a particular
21 susceptibility if you have collected the families and you
22 have this set of markers which are all easily and freely
23 available because they are basically available over the
24 Internet. The kinds of markers that are being currently
25 supplied do not require you to mail around clones to each
26 other, which is a wonderful assistance in getting things

1 done.

2 (Slide.)

3 Now once you have identified a region say between
4 marker C and D where your gene is, you then want to sift
5 through that DNA which may still be a few million base
6 pairs to try to find the gene that is actually responsible.
7 For that you need a physical map and ideally you would like
8 that map to be annotated with the locations of specific
9 genes. That is also coming along very well. Without going
10 into great detail I will show you an illegible slide which
11 means that it is going really well because the more data
12 you have the harder it is to read the slides.

13 (Slide.)

14 This is the long arm of chromosome 14. Each one of
15 these little horizontal bars here is a yeast artificial
16 chromosome which is a cloned fragment of human DNA which
17 has been isolated and is being propagated in a fashion to
18 allow you to study it in pure form. The point of the slide
19 is to say there is a lot of those and they are all arranged
20 in order and we know there are overlaps. In fact, 96
21 percent of the human genome now exists in well validated
22 physical maps thanks to the efforts of various genome
23 centers, particularly the one at Whitehead Institute of
24 MIT. Major efforts also in physical maps have been carried
25 out by other groups including David Cox's group at
26 Stanford.

1 (Slide.)

2 The hardest part is the sequence. Three billion base
3 pairs no matter how you cut it is a lot of DNA. If we
4 tried to start doing this back in 1990 we would really, I
5 think, have been making a mistake because the technology
6 was not up to it and you really need the maps before you
7 can attempt to accomplish sequence in a rational fashion.

8 (Slide.)

9 That, in fact, has also been coming along quite well,
10 although most of the sequencing that has been done up until
11 about now has been on model organisms. And these five, in
12 particular the so-called Security Council of the Genome
13 Project, have been particularly focused on. And some of
14 them have made substantial progress.

15 Yeast, for instance, had its genome completely
16 sequenced by last April. A eukaryote that has a nucleus
17 and goes through the cell cycle and does a lot of things
18 that human beings do in their cells, and this is an
19 enormously valuable storehouse of information. *C. elegans*,
20 a more complicated organism in the round worm will have its
21 sequence done by the end of next year. And *Drosophila*
22 probably a year or two after that.

23 The mouse, we have never actually said we are going to
24 do the sequence of because it depends on whether the price
25 comes down and we can afford to for the budget that is
26 available. But obviously many people would love to see

1 that done because the comparison with human sequences will
2 be enormously valuable in telling us what the human
3 sequence is all about.

4 (Slide.)

5 Now in order to achieve this kind of sequencing
6 throughput that we are now anticipating, that is to get the
7 human done, technology really has to be pushed. The human
8 sequence of three billion base pairs was initiated in some
9 earnest here last spring by the funding of six genome
10 centers around the country, again one of them is the Cox
11 and Meyers Center in Stanford, which in the aggregate
12 should produce about 100 million base pairs of sequence by
13 the end of next year largely using instruments like this
14 one, which is a promotionally available automated
15 sequencer.

16 But I think the real future of DNA sequencing is
17 likely to be in advances in the technology that allow you
18 to go from an instrument like this, which while very
19 elegant and very efficient by the standards compared to say
20 five years ago, is not the ultimate answer.

21 (Slide.)

22 And perhaps we can look forward to instruments like
23 this one which is an experimental apparatus built by David
24 Burke at the University of Michigan where all of the
25 components of a sequencing machine in terms of doing the
26 reactions and running the electrophoresis have been put

1 onto a silicon chip borrowing technology from the computer
2 industry which has been so successful in making integrated
3 circuits.

4 The idea of scaling everything down is enormously
5 appealing because it cuts down on volumes and allows you to
6 automate steps that currently you cannot. I think that is
7 where sequencing is going in the long term. You should
8 think of DNA sequencing -- and this is relevant to this
9 group, this is not just a "techy" statement, this is really
10 a medical statement -- sequencing is having almost
11 unlimited potential for increasing the throughput and
12 decreasing the cost so that the notion of being able to
13 collect very large quantities of information about an
14 individual's DNA in the coming decade or so is really not a
15 notion that is science fiction. It is quite conceivable
16 that that will be possible in a medical setting. How will
17 we be sure that that is used to benefit patients rather
18 than to injure them?

19 (Slide.)

20 So just to summarize the report card part of this
21 here, the Genome Project is, I think, going extremely well
22 as far as achieving these goals. The genetic maps are
23 essentially done. The physical maps are very close to
24 done. DNA sequencing has just become to ramp up in
25 earnest, but when one goes through the estimations of where
26 we will be two or three years from now or six or seven

1 years from now it is hard to find people who are not pretty
2 confident that the sequence will, in fact, be completed by
3 the year 2005.

4 I should have said at the beginning this is not just
5 the National Center for Human Genome Research, this is the
6 Department of Energy here in the U.S. which is a cosponsor
7 of the Genome Project, and also the rest of the world with
8 significant contributions in the Genome Project coming from
9 the United Kingdom, from Germany, from France and from
10 Japan.

11 PROF. CAPRON: Before you change the slide, Francis,
12 what is the significance of the mathematical statement that
13 it makes that we are going to get beyond 100 percent?

14 DR. COLLINS: For these two --

15 PROF. CAPRON: Yes. These little rocket ships there.

16 DR. COLLINS: Yes. Maps can be defined sort of by
17 what density of mile markers do you want on the map. And
18 those were very carefully defined by the originators of the
19 project and then redefined in 1993. But once you have an
20 acceptable map and a 100 percent map you can still make it
21 denser.

22 So even though we exceeded the goals for genetic
23 markers back in 1993 we keep adding more markers to the map
24 because more is still better than what we have. But as far
25 as saying what was the minimum that we had to achieve for
26 that goal to basically not hold up the rest of it, that

1 would be accomplished. Physical maps can still get denser,
2 too.

3 The sequence at some level when you have got it, you
4 have got it at least for a reference sequence, and
5 obviously that raises the question but what about all the
6 variability which is what makes human biology interesting.
7 And that is, in effect, sort of the next stage. That is
8 genome phase II of whatever you want to call it where you
9 take that reference sequence and really begin to take apart
10 what are the things that are responsible for differences
11 between individuals.

12 Obviously that is already happening. Once you have
13 identified a gene that you think may be interesting in a
14 disease the first thing you do is to sequence that in large
15 numbers of affecteds and unaffecteds to see what the
16 variability is.

17 To look at variability on the whole genome scale is
18 not unimaginable. I think many of us look forward once we
19 have that first reference sequence to say, well, that was
20 good practice, now let's go on and do another few hundred
21 carefully chosen DNA samples and see what we can learn
22 about variability and population relatedness.

23 Remember 99.9 percent roughly of our DNA is all the
24 same. So having that reference sequence tells you an awful
25 lot about the normal human biology. But it does not tell
26 you a thing about that .1 percent of very interesting stuff

1 that accounts for the fact that we are all quite different.
2 That will be obviously an interesting topic under its own.

3 (Slide.)

4 So the flow of molecular medicine and the consequences
5 of this are obviously all around us and it will be, I
6 think, both stimulating and bedeviling. This commission
7 can be conceived of as this kind of flow chart. You want
8 to understand a disease these days, you would like to
9 identify the genes that contribute to susceptibility to
10 that disease, and that involves first mapping and then
11 cloning. And the Genome Project has telescoped that time
12 interval which used to be ten years down to a year or two
13 and, as things go on and the sequence gets completed, to a
14 month or two. So clearly this kind of thing is going
15 to be happening in great profusion and already is for large
16 numbers of diseases.

17 But then what? It is a research activity essentially
18 until you get to that point, but what are the consequences
19 for the public? How does it spill out into the practice of
20 clinical medicine?

21 Well, it spills first over here into diagnostics
22 because having found a gene, you have found alterations in
23 that gene that occur in people who have a disease and not
24 in people who do not. That is part of the process of
25 proving you have got the right thing. And that means, like
26 it or not, you have in your hands the potential of offering

1 a diagnostic test to individuals to predict who is at risk
2 or whose children are at risk and that obviously has
3 potential benefits in situations where effective
4 interventions are available, say colon cancer where knowing
5 you are at high risk might allow you to have a colonoscopy
6 beginning at age 35 instead of waiting until much later and
7 finding out that you have got a polyp which can be removed
8 easily without eventuating into a metastatic colon cancer
9 years down the road. That is a very appealing concept.

10 But not all of the diagnostics allow you an effective
11 preventive medicine strategy. Alzheimer's disease is the
12 sort of classic example. We know now how to make
13 predictions about individual risk for Alzheimer's disease.
14 It is not perfect, but it certainly has scientific
15 validity. But is it clinically useful? Is it the kind of
16 information that people want given that the diagnostics do
17 not suggest a way of reducing your risk? It only provides
18 you with information about which you cannot do very much.

19 Now let's not forget, however, during all these
20 discussions and during all of the concerns that we have
21 about dealing with this arm of the diagram that also down
22 here there is the enormous potential to see these gene
23 discoveries become ever more therapeutically useful, but
24 however time is over here and you are going to have to deal
25 with this interval, this window, in between good diagnostic
26 capability and not so great therapeutic capability for a

1 lot of diseases. There is nothing we can do about that.
2 You cannot speed this up other than stimulating research
3 even more than is currently being done. You cannot just
4 skip over this step and pretend it is not there. It is
5 going to be haunting us for many conditions.

6 I think that diagram actually sort of is a useful way
7 to see how we got into the pickle that we are in for a
8 number of conditions because of this discrepancy between
9 diagnostic brilliance and therapeutic brilliance.

10 (Slide.)

11 Well, let's put a human face on all of this
12 infrastructure and basic science. This is a very powerful
13 magazine cover from Newsweek a couple of years ago before
14 this gene was found. It now has been. But look at this
15 three generation pedigree and then read the caption. This
16 woman has had breast cancer, her daughter at the age of 29
17 has undergone a prophylactic bilateral mastectomy because
18 of her concerns about her very high risk of developing
19 breast cancer as a consequence of having inherited an
20 alteration in the gene called BRCA-1. The cover is asking
21 the question, "Will we have better things to offer the next
22 generation?"

23 BRCA-1 is a very interesting paradigm because it
24 raises many of the issues that this commission will
25 probably be struggling with all the way from patenting to
26 privacy issues, to concerns about informed consent for

1 participants in research protocols, or even for
2 participants in a possible testing situation who need to
3 have information about benefits and risks before the test
4 is done, and certainly should not have the test done on
5 them without their consent. Almost all of the concerns
6 that one has can be perhaps thought of in this particular
7 situation.

8 (Slide.)

9 I will just quickly tell you about a woman recently
10 seen here at the NIH as part of a research protocol
11 studying BRCA-1 because I think it does sort of make the
12 case. Here is a woman over here marked with the arrow who
13 came in not because she is ill. She is perfectly fine.
14 She is a federal employee, aged 40, about ready to leave
15 the government and start her own consulting business. But
16 came in because she got a phone call from her cousin over
17 here who she had not seen in some years and the cousin
18 said, "I want you to know that I have breast cancer, my
19 mother died of ovarian cancer."

20 She had not even realized that. This is not a close
21 knit family. And she said, "I have been involved in a
22 research protocol that those people at the NIH are carrying
23 out and as part of that research protocol they have
24 discovered that I have an alteration in this gene called
25 BRCA-1 and so I am concerned that other family members
26 might be at risk which is why I am calling you up and maybe

1 you would like to contact those folks and hear what this
2 means. "

3 Now imagine what kind of a phone call that was for
4 this individual to receive not having really realized that
5 there was much of a family history of cancer and then
6 learning not only there was a family history of cancer, but
7 there might be a very specific way of finding out her own
8 risk.

9 Now the geneticists in the room will have figured out
10 that her risk of having the BRCA-1 mutation is 25 percent
11 based on this pedigree. But obviously with a known
12 mutation in this woman, which was also identified in stored
13 tissue samples on this woman, another issue that I want to
14 come back to, it is possible to take a DNA sample from that
15 person and look very quickly and precisely to see whether
16 that same misspelling exists in her. And that would tell
17 her whether her risk is the same as everybody else if the
18 test is negative or very high, although we do not know
19 exactly how high for both breast and ovarian cancer, but
20 probably substantially elevated, perhaps as much as 85
21 percent.

22 What did she decide to do? Well, she was actually
23 very interested in knowing the information. She was
24 troubled by the fact that we could not tell her what
25 interventions would be ideally carried out by someone in
26 her circumstance if she were found to have this mutation

1 because we do not know whether mammograms started at an
2 earlier than usual age, in this case age 40, and done very
3 faithfully would definitely reduce her risk of dying of
4 metastatic breast cancer.

5 We would like to think that is the case but we do not
6 know that for this highly specific genetic risk population.
7 We do not know what the value of interventions of a more
8 drastic sort like mastectomy or ovariectomy might be. We
9 think that those should reduce risk, but there are
10 troubling anecdotes of women who went through those
11 procedures and still developed cancer.

12 So she was bothered by that. But she said, "You know,
13 I guess all things considered I would still like to know my
14 situation because it probably would influence the kind of
15 care that I would get."

16 However, she eventually decided not to be tested and
17 the reason was, as I mentioned, her intent to go out of the
18 federal employment and to get her own consulting position
19 which means she would have to get her own health insurance.
20 And after hearing our explanations of the lack of certainty
21 that she could count on being able to get adequate
22 insurance without paying exorbitant premiums she decided
23 this just was not a good equation and she declined to be
24 tested.

25 So here we have a situation where there is complicated
26 benefits and risks, but the decision was based largely on a

1 discrimination possibility rather than on the sort of
2 personal medical benefits and risks that one would like to
3 think somebody could decide based upon. This is not an
4 unusual situation. This is a significant cause of people
5 deciding that they do not want the information. There are
6 other causes of course.

7 (Slide.)

8 Well, that leads me into talking about the ELSI
9 program and perhaps suggesting some areas where I believe
10 this commission could make a very important impact. The
11 ELSI program at NCHGR is often sort of confused so let me
12 just take a minute to explain that it is not one thing. It
13 is really now four things. It used to be two things and we
14 have added a couple in the last couple of years and maybe
15 it is helpful to try to explain this.

16 It is a research program on which we spend five
17 percent of our budget and DOE spends three percent of
18 their's. This has funded a large number of investigators
19 all over the country studying everything from philosophical
20 implications to legal concerns, to actual clinical studies
21 to try to see what genetic testing leads to for cystic
22 fibrosis or for cancer. So that is a very significant
23 investment. The largest investment ever in ethical
24 research coming out of this research program of the ELSI
25 portfolio and there are several grantees in the room.

26 The ELSI Working Group, which was started back in

1 1989, is a deliberative body composed of experts from a
2 wide variety of points of view, from science to law, to
3 ethics, to sort of social science and policy, who have been
4 charged with trying to take the issues, wrestle with them
5 and come up with policy options that might be considered by
6 decision makers. And I will come back to the ELSI Working
7 Group a couple of times and again Tom Murray is a former
8 member and David Cox is a member. So this commission is
9 nicely connected with that deliberative body which has been
10 meeting now for about six years and met most recently
11 yesterday.

12 The Office of Policy Coordination is a relatively new
13 arrival on the scene. This is located within the
14 Director's office at NCHGR. Kathy Hudson, who is sitting
15 in the back row, is the Director of this office. This
16 office tries to interact productively and effectively with
17 a whole host of individuals who come to us seeking
18 information about the Genome Project and its policy
19 implications. Some of them being legislators. I think
20 that has been a very helpful rapid response situation when
21 something is about to happen on Capitol Hill or somewhere
22 in this town and also to help us think through where we
23 should be going.

24 The most recent addition is an Intramural Office of
25 Genome Ethics, which has been directed in an acting
26 capacity by Ron Green, an ethicist that many of you know

1 from Dartmouth who has been on loan to us for the last six
2 months, and has been working with the intramural
3 scientists, most of whom are over here in Building 49, who
4 are on the cutting edge of genetic research trying to help
5 them wrestle with some of the consequences of their own
6 personal research interests. That has been a very
7 interesting addition to this. So the ELSI Program is all
8 four of these things.

9 (Slide.)

10 Now ELSI priorities can be divided in various ways.
11 You have in your briefing book the five year review of the
12 ELSI program which breaks it down into four categories. I
13 am going to break it down into five because I want to make
14 a particular point here today. So I have split out one of
15 them into two different ones and do not be alarmed if they
16 do not seem to be a perfect one on one match. We are still
17 talking about the same issues here.

18 I want to briefly go through each one of these and
19 sort of say what progress has been made and also what
20 serious challenges still remain, and there are plenty of
21 challenges here, believe me.

22 But first these priorities and you could certainly say
23 there are things left off here and there are, and we will
24 probably want to add others as we go along. But in the
25 first six years of the ELSI Program these have been the
26 major areas of interest. And I will maybe go through them

1 one at a time.

2 (Slide.)

3 I should also point out that in the back of your
4 briefing book is this document or the abstract of it from
5 the Institute of Medicine's study called "Assessing genetic
6 risks," which was funded by the ELSI Program, which is I
7 think a very good starting point for almost any discussion
8 in the policy consequences and the societal consequences of
9 genetic research. And many of the points that are made
10 there are the right points and the ones which need to be
11 deliberated about.

12 That group met for a period of almost two-and-a-half
13 years and produced this document, but then of course as
14 happens with IOM studies they went out of business and many
15 of the recommendations and suggestions they made still are
16 remaining to be followed up on. This, I think, would be a
17 very useful starting point for many of the discussions of
18 this group.

19 (Slide.)

20 Now let me highlight a little bit about what is going
21 on in specific areas beginning with clinical integration of
22 new technologies. This is the whole question of who
23 decides when a test is ready to leave research and move
24 into clinical medicine and how do you make sure that the
25 laboratories that are doing this are maintaining adequate
26 quality control? This is a topic which is really quite

1 complex and is hard to get your mind completely around.

2 As part of this effort we have been funding research
3 projects to look at CF carrier testing, to look at cancer
4 susceptibility testing, and I think we have learned a lot
5 through those research projects.

6 (Slide.)

7 But I think the most important sort of policy efforts
8 in clinical integration of test is the Task Force on
9 Genetic Testing which was spun off of the ELSI Working
10 Group. So this is a subgroup of the ELSI Working Group.
11 It is chaired by Tony Holtzman of Johns Hopkins University.
12 And it has these objectives and it has a clear mission
13 statement. It has been meeting now for a year-and-a-half
14 and expects to be completed with its work by next spring.

15 Its objectives were to review the state-of-the-art of
16 genetic testing, to examine current policies and practices,
17 and if necessary, and it looks like it is going to be
18 necessary, recommend changes or policy options that will
19 assure protection of the public. This task force has
20 membership from a broad group of potential stakeholders in
21 this, including companies, health care providers,
22 geneticists, health care insurers, consumers and a list of
23 government agencies that have potential authorities in this
24 area, including AHCPR, CDC, FDA, HCFA and HRSA.

25 (Slide.)

26 This group I would say has developed a very vigorous

1 effort and has good chemistry between all of these folks
2 who might not necessarily be on the same side of the issue,
3 and have come forward already last March with a document,
4 which is not in your briefing books but which certainly we
5 could provide to the members of the commission if you would
6 like to look through it because I think it is in many ways
7 relevant to the possible topics you might take up.

8 This set of interim principles was put together by
9 this group and endorsed by all of them unanimously and
10 basically aims to set out what should be achieved or
11 achievable in the field of clinical applications of
12 genetics testing. It is a document that I think is full of
13 thoughtful points and some very specific principles, but it
14 does not seek in this iteration to suggest how those
15 principles might be implemented, although I think in some
16 instances the principles are themselves sort of action
17 statements that imply a certain implementation.

18 The task force is now wrestling with the
19 implementation part of this and expects to put out its
20 draft principles in that regard by the end of this year.
21 They will be published in the Federal Register as will
22 these and comments will be received. The final version of
23 this task force's output should be coming out in about
24 March.

25 I would think that it would be very useful for the
26 commission to stay abreast of what is coming out of this

1 because the big question here, and it is not going to be an
2 easy question to answer, is who decides when a test is
3 ready to leave research and move into more general medical
4 practice. That debate is raging right now for BRCA-1, for
5 instance. You may have seen earlier this week in the
6 newspapers the publication of a study that suggests that
7 one in fifty Ashkenazi Jewish men and women are carrying a
8 BRCA-1 or BRCA-2 mutation that may place them at very high
9 risk for developing breast cancer, the women that is, and
10 ovarian cancer as well.

11 (Slide.)

12 So is it appropriate to begin to market that kind of
13 testing specifically to Jewish individuals? Such marketing
14 is happening whether you think it is appropriate or not.
15 This is clipped from the Washington Jewish Weekly and such
16 advertisements have appeared in multiple other newspapers
17 around the country basically offering analysis for a
18 particular mutation in BRCA-1 by a company in the
19 Washington area.

20 Is that something which the public as a whole has a
21 stake in weighing in on, whether this is a good thing or
22 not? Or is it the case that this kind of testing is
23 already appropriately enough overseen by professional
24 practice guidelines and no special regulatory interventions
25 are necessary? Those are the kinds of things the task
26 force is wrestling with.

1 By the way the FDA has authority to regulate genetic
2 testing of this sort, but it has chosen not to exercise it
3 thus far. These tests are done in-house by laboratories.
4 If they were kits that were being sent out to other
5 laboratories then they would be regulated by the FDA. But
6 because they are home brews done inside a particular highly
7 specialized laboratory they are at the present time not
8 subject to FDA oversight. The laboratories are inspected
9 through CLIA regulations, but those inspections are largely
10 on sort of good record keeping and not necessarily on the
11 specifics of DNA testing about which the inspectors have
12 relatively little experience.

13 (Slide.)

14 So one of the very important things to watch is to
15 sort of see what does the task force say about the
16 oversight of the introduction of a test such as BRCA-1 into
17 clinical practice. A very critical issue because if we do
18 this wrong, if we get too many horror stories of people who
19 are tested without even knowing it and then had information
20 dumped in their laps that they were unprepared to deal with
21 and wished they did not have, the public will quickly get
22 disillusioned with this new brand of genetics and decide
23 they do not want anything to do with it. And it might take
24 us decades to recover from that. That would be truly
25 unfortunate.

26 Even though I stand up in many settings and say we

1 have to be really thoughtful about this and cautious about
2 how genetics get introduced into practice, I believe and I
3 think almost anybody working in the field of medical
4 genetics believes that this is an advance, a set of
5 advances that have enormous promise to benefit people, to
6 alleviate suffering, to eliminate unnecessary deaths, and
7 to have that sort of stillborn because of a too rapid
8 introduction in too thoughtless a way of a new technology
9 would be truly sad.

10 (Slide.)

11 So this is sort of one of the ELSI priorities and
12 again I think the most appropriate tact perhaps for the
13 commission is to stay very tightly abreast of this. And
14 David Cox, he is not only a member of the ELSI Working
15 Group, he is a member of this task force and will be in a
16 position to keep you well informed about what is going on.
17 And it may well be that some weighing in by the commission
18 now or later will turn out to be very useful.

19 (Slide.)

20 A second topic which everybody agrees is important and
21 almost nobody seems to know how we are going to do is it
22 health professional and public education about genetics. I
23 have just made this strong statement about the value of
24 this information for advancing medicine, but it will only
25 do so if the health care providers and the people listening
26 to the information are prepared to receive it. Let's be

1 honest we are not there yet.

2 (Slide.)

3 This is many people's idea of gene therapy here.

4 (Laughter.)

5 You can buy this stuff in the health food store for a
6 rather exorbitant price and pop your tablets of RNA and
7 DNA. It does not even say on the label what organism this
8 is. I hesitate to speculate. But if that is, in fact, a
9 hot seller item in the health food store it means we have
10 got a bit of a problem here. It is not just the general
11 public that I think has not received much information, most
12 physicians have had no exposure to genetics as part of
13 their formal training and are, therefore, going to be in a
14 tough spot when a patient is sitting across from them
15 asking what does this particular genetic test result mean.

16 (Slide.)

17 We have recently helped to catalyze, although we are
18 not running, the National Coalition for Health Professional
19 Education in Genetics, which is an attempt to bring
20 together specialty and general practice organizations that
21 represent health care providers, not just physicians, but
22 also nurses, social workers, a broad range of health care
23 providers, to work together to develop materials to educate
24 their members about genetics as quickly as possible, and
25 perhaps to try to influence board exams and license exams
26 as well to make genetics more significant in that kind of

1 evaluation than it currently is.

2 (Slide.)

3 The ethical conduct of genetics research. Obviously
4 very central in the charter that this commission has
5 received and let me just make a couple of comments. I
6 think the current regulations, which you are all familiar
7 with, perhaps do a pretty good job of protecting against
8 harms, but emphasize physical harms certainly more so than
9 the psychosocial harms which can come about as a
10 consequence of genetic research projects that involve
11 testing and prediction of future risk.

12 The other consequence that is perhaps not as well
13 attended to as it might be is the fact that a genetic
14 analysis reaches a conclusion with implications that are
15 broader than just that individual but also for their
16 family, and how do you balance those things.

17 I want to highlight, however, and this is sort of my
18 first suggestion of a specific project, an area within this
19 ethical conduct which I think is ripe for a group such as
20 this to deliberate about and to produce a set of consensus
21 guidelines. That is the appropriate oversight of a use of
22 archive tissue samples for DNA testing. This is a very
23 significant topic. There are hundreds of thousands of
24 tissue samples, most of them are sitting in paraffin blocks
25 in hospital pathology laboratories that have been collected
26 over decades and which are a gold mine of useful

1 information when it comes to research projects that would
2 like to understand those diseases better.

3 There are tens of thousands of DNA samples that have
4 been collected on individuals enrolled in prospective
5 studies like N-HANES, for instance, to try to understand
6 what risk factors contribute to what disease and DNA
7 samples are available but consent has not necessarily been
8 obtained in the way that you would hope for to allow a
9 broad testing of those. So what are the restrictions on
10 carrying out such testing?

11 We have a real issue here between what might be best
12 for the public and society as far as allowing research that
13 is going to give very important answers to go forward in as
14 unfettered a way as possible and at the same time the
15 likelihood that somebody will have something determined
16 about them and that information find its way back to them
17 that they did not consent for and wish subsequently that
18 had not been obtained.

19 I have heard at least one horror story of a
20 pathologist in a major eastern city who was looking for the
21 presence of mutations in the BRCA-1 gene in tumors that had
22 been taken from patients over the preceding five or ten
23 years. And what he thought he was looking for were
24 mutations in that gene that were somatic, that is were
25 acquired during life. Well, he found one, but then when he
26 looked in the normal tissue adjacent to the tumor the

1 mutation was there, too. So this was not a somatic
2 mutation. It was an inherited mutation.

3 This pathologist with good intent felt that he then
4 needed to warn that individual of her risk of getting a
5 future breast cancer because individuals in this situation
6 are at risk for bilateral disease and also the risk of
7 ovarian cancer. So he contacted her and gave her this
8 information.

9 Now imagine her puzzlement and dismay at getting this
10 sort of unexpected phone call about a situation which she
11 thought was over having been operated on for breast cancer
12 four or five years earlier and being apparently cured of
13 her disease.

14 She was unable based on the information he gave her
15 over the telephone to really quite figure out what this
16 meant and sought advice from her own physician who was
17 similarly confused about what this meant. This woman
18 subsequently attempted suicide. That kind of situation I
19 think brings into sort of stark belief the possibilities
20 here of damage being done by completely unrestricted
21 testing of archive samples of this sort.

22 (Slide.)

23 Now there have been a number of groups that have
24 looked at this area. Certainly this is not one that needs
25 to be started from scratch. In fact, as of yesterday I
26 counted five different statements that have been made on

1 informed consent in genetic analyses of archived tissue
2 samples.

3 There is one in your briefing book, the first one,
4 which was the result of about a year-and-a-half of
5 deliberations of a group that was convened by NIH and CDC.
6 Ellen Wright-Clayton is the first author on that article
7 and I think it is a thoughtful analysis. An independent
8 group from the American College of Medical Genetics
9 produced a statement which is also published. The American
10 Society of Human Genetics has recently published a
11 statement as well. The ELSI Working Group has a draft
12 statement which we discussed yesterday at their meeting.
13 And very recently in the last week the College of American
14 Pathologists, but actually in concert with fifteen other
15 pathology organizations, has put together their statement
16 about this which differs in some significant ways from the
17 other four. Although I would say there is more in common
18 than there is in difference between these five statements.

19 The problem is what happens now? We have got five
20 different points of view. Clearly this is an issue of, I
21 think, fairly significant urgency in my view. But again I
22 hesitate to be too strong about this. In my view this
23 would be a very appropriate topic for this commission to
24 take up early.

25 It is a topic which I think could in a matter of a few
26 months be reduced to some consensus view and you could make

1 recommendations perhaps to OPRR about how to move this
2 forward. This is clearly a topic that affects more than
3 one agency. It crosses a lot of boundaries and is well
4 within the mandate that the commission was given in its
5 charter. So that is sort of suggestion number one.

6 (Slide.)

7 Moving along here, the fair use of genetic information
8 is obviously a topic very much on the public's mind. This
9 is one where I think the complexities of this are
10 considerable, but perhaps also there is a very strong moral
11 basis for taking a particular point of view. The strong
12 moral basis in my sort of nonethicist view goes like this:
13 You did not get to pick your DNA. I did not get to pick
14 mine. Policies that allow that information to be used to
15 discriminate against you are unjust and we should not all
16 them. That is the strongest statement.

17 So this is a civil rights issue essentially. I do not
18 think it is extreme to use that kind of terminology.
19 Genetic information about you should not be used to deny
20 you basic things like health care or a job. In fact, those
21 are the two areas where I think the greatest interest has
22 been devoted and rightfully so.

23 (Slide.)

24 Now why is genetic information so special? That is
25 often a question that people ask. Well, yes, that is fine,
26 but what is special about this as compared to other medical

1 or personal information? I have been assembling a list.
2 Karen Rothenberg is responsible for most of these. A
3 growing list of words that begin with "p" that sort of
4 remind us of what is special about genetic information. It
5 is "personal." It is about you.

6 It is "predictive." A very significant part of this,
7 I think the greatest concerns often arise not when you are
8 talking about somebody who already has an illness and you
9 are trying to make the diagnosis, but when somebody is
10 entirely well and you are predicting something about their
11 future. The potential for mischief there is considerable.

12 It is "powerful" in that way that it may be able to
13 make predictions about your future.

14 It is "private" or it should be. At the moment it is
15 not.

16 It is "pedigree" sensitive. That is a little bit of a
17 push there trying to turn the fact that it is familial into
18 a word that begins with "p" but that is what I am saying
19 here. That information about the "person" also may reveal
20 information about their relatives.

21 It is "permanent." It is not going to change, which
22 is one of the reasons you better not make a mistake when
23 you analyze it.

24 And it is "potentially prejudicial." It may be, in
25 fact, used in ways to prejudice people against you.

26 No single one of those characteristics about genetic

1 information would distinguish it from other kinds of
2 medical information. But taken together I think they
3 justify considering this in a very special way.

4 (Slide.)

5 Now the public is worried about this as I said a
6 minute ago. A much quoted Harris poll from last year, 86
7 percent of people asked said they were worried about health
8 and life insurance companies or employers using genetic
9 information against them. A rather significant figure to
10 say the least.

11 (Slide.)

12 Now going to health insurance. The first major effort
13 in this regard by the ELSI Working Group culminated in this
14 particular document and the chair of the group that put
15 this together is none other than Tom Murray who is now on
16 this commission. This document called, "Genetic
17 Information and Health Insurance," put forward a set of
18 recommendations which basically underlined the notion that
19 genetic information should not be used to deny coverage or
20 to set exorbitant premiums or to in other ways discriminate
21 against people in the health insurance arena arguing that
22 health -- the access to health care is not a privilege, but
23 a right.

24 (Slide.)

25 Subsequent to that about a year ago a coalition effort
26 between the ELSI Working Group and the National Action Plan

1 on Breast Cancer met and put together a set of
2 recommendations which were published in Science magazine on
3 the 20th of October, 1995. This is in your briefing book.

4 (Slide.)

5 That particular piece of work, which was the sort of
6 policy recommendations of this collection of the ELSI
7 Working Group and a very vigorous group of consumer
8 activists in the breast cancer community included the
9 following:

10 Insurance providers should be prohibited from using
11 genetic information to limit any coverage or establish
12 eligibility, continuation, enrollment or contribution
13 requirements. Every word was carefully chosen here.

14 (Slide.)

15 Affordability: Insurance providers should be
16 prohibited from establishing differential rates or premium
17 payments based on genetic information.

18 (Slide.)

19 And privacy: Insurance providers should be prohibited
20 from requesting or requiring collection of genetic
21 information and they should be prohibited from releasing it
22 without prior written authorization of the individual.

23 There are other recommendations, but I highlight these
24 there in particular.

25 Now it has been a very interesting year in the federal
26 legislative process because in the last year after very

1 little activity in the area of genetic discrimination at
2 all a series of bills were introduced.

3 (Slide.)

4 And one of them, the Health Insurance Reportability
5 and Accountability Act, often known as the Kasselbaum-
6 Kennedy Act, was passed and signed by the President just
7 about six weeks ago.

8 These other bills which focus more specifically on
9 genetics and many of which cover more than discrimination
10 and also cover privacy received, I think, some attention
11 and some good discussion, but did not succeed in generating
12 something that would actually be approved by even one House
13 and one will have to wait and see what happens in the
14 subsequent Congress.

15 Let me just say this bill, which is the Kasselbaum-
16 Kennedy Bill, does specifically mention genetic information
17 as one of the things that a health insurer must not use in
18 discriminating against individuals, that is must not use to
19 deny them coverage. But what it does not say is anything
20 very comforting about what can be done about setting
21 premiums.

22 So while this bill was a good step, I would say a very
23 significant step because it sets a precedent that genetics
24 ought not to be used in discriminatory ways, it does not
25 close the door on that in health insurance in the way that
26 one might like. The recommendations, therefore, that I

1 showed you a minute ago have only been met in sort of one
2 out of three.

3 So here comes the sort of second suggestion. I think
4 it would be very appropriate and helpful for the NBAC to
5 consider this issue and to look at the recommendations
6 which the ELSI Working Group and the Action Plan on Breast
7 Cancer put together, and if you see fit even to endorse
8 them as a way of perhaps moving this process along and
9 perhaps reminding the public and the Congress that this
10 issue has not been resolved to anything except sort of a
11 very incremental step in anticipation, one hopes, of being
12 able to do better the next time around.

13 (Slide.)

14 So this cartoon reminds us that we have not solved
15 this problem. The quote is, "Apparently I am genetically
16 disposed to pay very high premiums." That is still true if
17 you happen to have a genetic predisposition.

18 (Slide.)

19 Now employment I am not going to say much about
20 because that is the subject of today's meeting. Wendy,
21 maybe you could focus this one slightly better for us here.
22 The quote here is, "Very nice resume. Leave a sample of
23 your DNA with my secretary." It is very nice to get
24 cartoons from the New Yorker. I recommend it to
25 commissioners. If you want to be giving public talks on
26 this issue that is a good source of material.

1 (Slide.)

2 Let me, however, spend the rest of the time talking
3 about privacy because here is my third topic that I would
4 like to perhaps urge some significant effort by this
5 commission. A very thorny one and a difficult one, but one
6 where I think the potential is ripe for a serious effort to
7 try to take care of what is currently a large problem.

8 First of all, let me say that even if we are so lucky
9 as to solve the discrimination issues in health insurance
10 and employment, the ones that I think are most on people's
11 mind, that will really not take care of the misuses of
12 genetic information.

13 It is helpful to sort of think of this building as
14 having two pillars and one is to try to do something about
15 discrimination and the other is to do something to protect
16 privacy. For instance, even if those two issues of
17 insurance discrimination and employment were taken care of,
18 and you find out that you are at risk for colon cancer, do
19 you really want everybody else to have access to that
20 information? Do you really believe that there will not be
21 ways covertly for such discrimination to go on in
22 employment or in health insurance if the information is
23 available?

24 What about other settings, education, the armed
25 services? Adoption agencies, will they decide you are not
26 a good candidate because they learn you have genetic risks.

1 In this particular season I have to say about what about
2 running for election? Will everybody who is running for
3 election have their genetic risks divulged? Will there be
4 any protection against that? Who will want to run for
5 office if that happens?

6 So it is not enough to do something about
7 discrimination in the areas of greatest concern. You
8 really have to side-by-side do something about privacy. We
9 have not, I am afraid, got a lot to show for the concerns
10 about that, although they have been around for a while.

11 (Slide.)

12 They have been around, in fact, since about the time
13 of this quote which says -- I will not read it for you, I
14 will just read the last part of it here, "Recent inventions
15 in business methods call attention to the next step which
16 must be taken for the protection of the person, the right
17 to be left alone." Essentially one of the first statements
18 of what a privacy right might be. This is from 1890. The
19 writers are Samuel Warren and Louis Brandeis in the Harvard
20 Law Review.

21 And this kind of thinking then led to some efforts in
22 privacy which were particularly vigorous, in fact, in the
23 early 1970's in the wake of Watergate. With the
24 anticipated power of new computer technologies Washington
25 got much more focused on this issue and there was a
26 committee --

1 (Slide.)

2 -- advisory to the Secretary of HEW, as that
3 department was called at that point, which looked at
4 automated data systems. And as a consequence of that the
5 Federal Privacy Act of 1974 came out which had some good
6 things in it and a commission was set up to look at privacy
7 protection which President Carter was very interested in.
8 That commission made 172 recommendations, none of which
9 were implemented because administrations changed and this
10 interest rather faded.

11 I think it is fair to say there has not been a lot of
12 progress in the area of privacy at least as it regards
13 medical information, which is my major topic with you
14 today. There have been a few bills that have been passed
15 about privacy. I will not go into them here. I probably
16 could not. You can see what they are. And you might think
17 that something good has happened if you read a statement
18 such as this:

19 (Slide.)

20 This comes from one of those bills. "A provider may
21 disclose personally identifiable information concerning any
22 consumer only --" it says, "-- to the consumer, to any
23 person with the informed written consent of the consumer --
24 " that sounds good, "-- to a law enforcement agency
25 pursuant to a warrant --" well, yes, "-- or pursuant to a
26 Court order." And there are even penalties provided here

1 liable to the aggrieved person if you do this without
2 permission. So that sounds pretty good.

3 (Slide.)

4 What do you think they are writing about here? Video
5 records. See this is the response to the attempt to find
6 out what videos Judge Bork was watching. This is certainly
7 an important issue but it is sort of ironic that this much
8 attention was paid to that and nothing similar was done
9 about medical information.

10 Now is that a concern? I recently was shown a study
11 which is not yet published of Fortune 500 companies. In
12 that study 35 percent of those companies said they use
13 medical records in making employment related decisions. 35
14 percent of Fortune 500 companies. That is a significant
15 concern.

16 (Slide.)

17 A Harris poll in 1993. People, in fact, believe that.
18 25 percent of the people they talked to believe that their
19 own medical information had been improperly disclosed and,
20 in fact, 34 percent of health care professionals said,
21 "Well, yes, they are right." So these are not 25 percent
22 of the world that is paranoid. They may be the ones that
23 are paying attention.

24 (Laughter.)

25 So it is certainly the case that there is a problem.
26 I think it is fair to say there has not been meaningful

1 federal legislation enacted on this topic in about the last
2 22 years.

3 (Slide.)

4 Now there has been an effort, however, in the recent
5 year or two, or three to deal with this issue. In the
6 current Congress there were three bills that were
7 particularly focused on privacy as well as some of the
8 genetic discrimination bills that I showed you earlier
9 which had privacy provisions.

10 The ones that were most heavily discussed this year
11 include the Bennett Bill, which went through several drafts
12 and was felt by many people to have a lot of the right
13 features. The McDermott Bill in the House also much
14 discussed with lots of interest in it. And the Condit
15 Bill, which has come back now a couple of years, the Fair
16 Health Information Practices Act.

17 They have different approaches to the problem and I
18 think it is fair to say that perhaps none of them received
19 broad support from all possible stakeholders. But the sad
20 thing is that not much headway was made in getting these
21 actually taken really seriously by the leadership in that
22 none of them received the blessing to reach the likelihood
23 of actually being discussed and potentially passed.

24 So there is plenty of opportunity here. Now I might
25 say some of these bills, and I will not name names, have
26 been more effective than others in trying to protect

1 research at the same time they are protecting privacy.
2 There is a real issue here. If you write a sloppy privacy
3 bill you could destroy medical research in one stroke.

4 If you simply decided that no use of any tissue
5 samples of any sort, I mean under any circumstances, could
6 be done without going back and getting informed consent
7 from individuals who may have given those samples five or
8 ten years earlier, if you decide that is the case and that
9 there is no such thing as anonymizing samples, you could
10 destroy the field of research pathology for instance.
11 Thought needs to be given to that.

12 (Slide.)

13 So what could NBAC do about this? Just a few points
14 here. Genetic, and I am going to say genetics/health
15 information because I do not see how you can separate out
16 the genetic part of the medical record from the rest of it.
17 It might be politically easier to get something done if we
18 could do it that way, but I do not think that is viable.

19 I cannot imagine a record keeping system that is able
20 to keep these things apart because they are changing every
21 day anyway and things that we thought were not genetic all
22 of a sudden are becoming so. Look at APO/EPO testing which
23 we used to do for cardiovascular disease and now, oh, my
24 goodness, it is a risk factor for Alzheimer's.

25 So genetic health information is sensitive and it can
26 be used and is being used to stigmatize, discriminate and

1 arm individuals. New genetic technologies will increase
2 the amount of information that may be determined in
3 dizzying ways. New computer technologies will increase the
4 ability to collect that and transform it ever more easily.
5 It is currently already accessible to many who have no need
6 for the information and often without individual consent.

7 (Slide.)

8 Individuals will be deterred from participating in
9 research as a consequence of this and that is already
10 happening because of fear the information will be accessed
11 by others who should not see it. There is little federal
12 protection for this kind of information and state
13 protections which I did not get into are quite nonuniform
14 and certainly inadequate. So I would like to make the case
15 that this is a high priority issue. There is a critical
16 need right now to define and enforce conditions for access
17 to and use of genetic health information. I will not be so
18 bold as to suggest exactly how that should be done, but it
19 certainly seems as if this is an issue whose time has come.

20 (Slide.)

21 This is a group that has the expertise and the drive
22 and the position in the scheme of things to perhaps make a
23 very significant impact on this. I, for one, would love to
24 see that taken up and would volunteer that the National
25 Center for Human Genome Research would do everything we
26 could to work with you to pursue that agenda.

1 So, to summarize, if I could have the lights up,
2 basically I welcome the chance to come and go through these
3 suggestions. I know you have many other things on your
4 table. I guess, I think of this group, who by the way, I
5 guess, celebrated their first anniversary of existing
6 simultaneously with starting to exist because the President
7 announced his Executive Order on October 3rd, 1995. So one
8 year ago and now here you are initiating your efforts.

9 I would think it would optimum, therefore, to take on
10 a couple of things that have fairly short time lines where
11 products could be reasonably expected to come forward, but
12 not to shy also to wrestle with a tougher, higher risk,
13 longer term effort. Just as when you are starting out a
14 research laboratory, you know, you do not want to put all
15 of your eggs in one research project. I suppose that
16 applies to commissions as well.

17 So I appreciate your attention in this description of
18 what ELSI is all about and the Genome Project. I would be
19 happy for some discussion. Thank you very much.

20 DR. SHAPIRO: Francis, thank you very much. Would you
21 like to join us here or do you prefer too --

22 DR. COLLINS: I will come down there.

23 DR. SHAPIRO: Alex?

24 PROF. CAPRON: I am curious, Francis, on the issue of
25 the archived tissue samples. Your eagerness to see that
26 issue from ELSI, which has been working on it and has not

1 yet finished its work, to us, that has two sides. One your
2 own disabilities to play the consensus role. I wonder
3 whether those are part of the terrain or peculiar to ELSI.
4 And, two, what special capabilities you think we would
5 bring to the topic?

6 DR. COLLINS: Yes. I think that is maybe a specific
7 example of a general issue. What kinds of issues are
8 particularly appropriate for ELSI Working Group to hand off
9 to the commission. I think this is a good example because
10 it does have implications that are pretty broad. If the
11 ELSI Working Group comes forward with a statement about
12 what they think the synthesis should be of all of these
13 circumstances, is anybody really going to alter their
14 behavior as a consequence of that or will that be one more
15 statement out of what are now five statements on this
16 topic?

17 There is some significant disagreement on some parts
18 of this and I think one of the great advantages of a
19 commission such as this is your broader representation,
20 your more authoritative position in the scheme of things,
21 and I think that is the major reason to ask this commission
22 to take it on.

23 As I say, it seems like an ideal circumstance where a
24 lot of the state work has been done, but the synthesis
25 needs to be occur in a way that once it is synthesized
26 people will pay attention.

1 DR. SHAPIRO: Eric?

2 DR. CASSELL: Well, I want to pick up on the privacy
3 issue because I think most people do not realize that the
4 ordinary medical record that sits in their doctor's office
5 has no privacy or confidentiality whatsoever anymore and
6 there are two consequences of that. One is that people's
7 privacy is broken and the second is that the record has no
8 value. That really is kept in the head of the
9 practitioner, most of us lie constantly in order to protect
10 people and that is inherently failed. That is on the one
11 hand.

12 On the other hand the issue is so difficult a
13 resolution that it is hard to see a commission getting into
14 something that there is almost no way to get back out of.
15 Even -- just to give one specific example, even HIV
16 information in the State of New York, which is protected by
17 criminal law, except for third party payers, insurers, and
18 so forth so that you cannot tell the wife, but you can tell
19 the insurance company.

20 DR. SHAPIRO: Alta?

21 PROF. CHARO: Just by way of warning, I do not want
22 this to come out sounding disrespectful in any way. But I
23 am really constantly frustrated by the shifting grounds
24 about whether the focus is on the genes themselves or on
25 their expression. Let me give you some perhaps counter
26 examples to show you why I am confused.

1 It seems to me that one of the most powerful genetic
2 predictors is the presence or absence of the Y chromosome
3 and that sex is, in fact, highly genetic determined. There
4 are a minority of people for whom it is not tremendously
5 determinative, but it is for most. And it is, you know,
6 obviously linked to significant physiological differences.
7 It is the cause of fifty percent of the population being
8 disabled and constitutionally unable to carry a pregnancy.
9 And, you know, those guys just have to live with that.

10 (Laughter.)

11 Why do you laugh? They are unable to do something.

12 And that is obviously genetic information that is
13 revealed every time I have to check off "M or F" on one of
14 those little forms. Similarly height, although not
15 completely determined by genetics, we know this from the
16 effect of dietary changes, have an extraordinarily strong
17 genetic component and so you can tell just by looking at
18 somebody an awful lot about certain aspects of their
19 genetics. And obviously then in certain diseases you can
20 look and see if somebody is expressing a disease that they
21 obviously must have one or another mutations even if you
22 have not identified specifically all mutations that could
23 account for it.

24 So I am not sure if the focus is on only things that
25 are latent and have not yet been expressed so that you are
26 getting at the predictive phenomenon of genetics. But then

1 in light of multigenic and multifactorial conditions,
2 whether it is only on latent and highly determined
3 conditions, and I ask this because some of these problems
4 occur because of the way the ground keeps shifting in the
5 conversation to whether it is because you are going to test
6 people for predictive purposes or because there is
7 information that is going to confirm existing things or it
8 is going to reveal relationships among people.

9 I just wonder if you all have like focused in on any
10 aspect of this because if it is about genes themselves what
11 you have really done is you have given us the Equal Rights
12 Amendment for which I would thank you, but I do not know
13 that is what you are aiming at.

14 DR. COLLINS: Yes. This is obviously an area where
15 the boundaries are always a little tough to define. I
16 guess most of what I was talking about I was relating to
17 the consequences of genetics that involve disease and I
18 recognize that the borderline between a disease and a trait
19 is not something that many of us could precisely draw.

20 I think when we talk about genetic information it is
21 helpful to break it down if it is related to a disease that
22 everybody would agree, yes, that is a disease, to the
23 circumstance of are you talking about an individual who
24 already has the illness and you are trying to determine
25 precisely what the molecular level -- what the alternation
26 is because that might make some prediction about what they

1 are going to respond to. We do not have a lot of good
2 examples of that, but there will be more.

3 Are you talking about a situation where they are a
4 carrier and it is their children who are at risk. The sort
5 of CF situation. Are you talking about a situation where
6 they are at risk but they are currently healthy?

7 I think it is that latter category that is the newest
8 arrival on the scene. It is the one where I think there is
9 the least protection in place for people against
10 discrimination and misuse, and violations of privacy. So
11 much of what I was talking about relates to that
12 circumstance and I probably should have defined it more
13 narrowly to begin with. But obviously one should not limit
14 the conversation to that. There are many other
15 opportunities for mischief in other circumstances. But I
16 think that is the most troubling one.

17 And the one which is coming down the tracks most
18 quickly right now is this business of predicted information
19 about currently healthy people based on an analysis of
20 their DNA combined with their family history and saying
21 that they are a highly unusual risk of this disease and
22 somebody wanting to use that to deny them something that
23 they ought to have a right to.

24 DR. SHAPIRO: Tom?

25 DR. MURRAY: Thanks. First of all, Francis,
26 congratulations to the project for being ahead of schedule

1 and under budget. We should do as well on the commission.

2 DR. COLLINS: It is going to be hard to be under your
3 budget.

4 (Laughter.)

5 DR. MURRAY: I have the same problem at home. It
6 seems congenital. Not genetic, just congenital. Thanks
7 for the warm words about the insurance task force and the
8 work of the ELSI group more broadly.

9 I want to add a couple of comments about the insurance
10 task force and then tell a quick story. The comments are,
11 first of all, we -- I think if you read the report very
12 carefully you will never see the phrase "right to health
13 care." And that is interesting not because we were trying
14 to avoid something political, but we could not have gotten
15 an agreement among all the members of the task force that
16 there was such a thing as a right to health care.

17 We could, however, get unanimous agreement that
18 everybody ought to have access to health care that they
19 need and that in any event genetic information along with
20 other information about likelihood of illness or actual
21 illness should not impair that access to health care. Now
22 you might say, well, isn't that the right to health care?
23 But I will leave that up to others who are concerned with
24 such discussions.

25 I was at first not sure what you were saying. I
26 thought you were saying that genetics was, in fact,

1 different from other things and rather dramatically so.
2 But in the end you said at least in the case of say health
3 records, practically genetic information is there along
4 with everything else. And that was a part of our reason
5 for rejecting this idea of what we have called genetic
6 exceptions and that genetics ought to be distinguished and
7 treated differently.

8 We also thought it was conceptually difficult to
9 distinguish genetics from nongenetic information. Not in
10 some cases. The HD gene is pretty clearly genetic, but
11 lots of other things seem to be on the borderline. We also
12 could not find a good ethical reason for distinguishing
13 between genetic health risks and other kinds of risk to
14 health. Most risk to health has at least as little to do
15 with the events of interest to health insurance, that is
16 episodes of illness, especially expensive episodes of
17 illness, as do nongenetic factors.

18 I mean, getting run over by a truck can lead you to
19 need health care and you may be as little responsible for
20 that as you are for something that your genes did to you.
21 So I want to thank you for all that. I thought you said
22 that very eloquently at the end.

23 Now the story. I will be quick. I was at a genome
24 conference a couple, two, three, four years ago. I do not
25 remember the exact date, but I guess both I and the person
26 behind me were not as interested in the speaker or equally

1 uninterested in what the speaker was saying at the moment.
2 I do not remember who was talking. But it was the head --
3 the guy behind me was the head of the FBI laboratories.

4 He tapped me on the shoulder and I leaned back and he
5 said, "Well, we have done the analysis on the samples from
6 the World Trade Center bombing. We have a letter that was
7 sent claiming credit for the bombing. We are analyzing the
8 DNA on the back of the stamp. We have, in fact, identified
9 one of the suspects." He said, "We also know that the
10 person who licked the envelop was a different person."
11 That is how hard or not hard it is to get at least certain
12 kinds of genetic information.

13 It also led me to the fanciful conclusion that one of
14 the largest identifiable collections of DNA samples belongs
15 to Publisher's Clearing House.

16 (Laughter.)

17 You know, you even sign it. You even wrote the stuff
18 inside.

19 It is not hard to get genetic samples.

20 DR. SHAPIRO: Thank you.

21 Zeke?

22 DR. EMANUEL: I wanted to push hard on something that
23 Tom had commented. You seem to be sliding between genetic
24 exceptionalism as Tom has put it and genetics is like other
25 aspects of health care. And this morning we have talked
26 and David Cox has said that he thought of genetics -- I am

1 putting words in his mouth, but I think the spirit is right
2 -- that genetics should be a wedge to other health care
3 issues and research issues that should not be treated all
4 that different.

5 You know my own inclination and I just want to be a
6 little clearer because when you talk about archival tissue
7 for DNA testing, that could look like it is very
8 exceptional. I mean, to me it seems part and parcel of a
9 broader issue, access to medical records for research.
10 While you are not looking at a tissue sample, you are
11 looking at other relevant health information, lab tests, et
12 cetera, outcomes. So it may be part and parcel of a bigger
13 outcomes question that we are presenting about genetic
14 discrimination. You know, it could be genetic and it could
15 be health related in a more broad based sense.

16 My own bias is that, you know, genetics is a good
17 wedge, but not unique either morally or should not probably
18 be unique in most policy implications. I wanted to hear
19 more about your views. Can I just tag on you mentioned
20 three, I think, suggestions to us and we actually have a --
21 part of the charge is about the patenting. You did not say
22 anything about that and I was wondering if that silence was
23 pregnant or just time constraints.

24 DR. COLLINS: Let me quickly respond to both
25 questions. I guess, now I have been inside the Beltway for
26 about three years and I have become a bit of pragmatist. I

1 guess my own personal sort of philosophical view is very
2 much that genetics is part of the tapestry of medical
3 information, that it is often difficult to decide whether
4 you are looking at something that is genetic or is not, and
5 that therefore it might make the most sense to deal with
6 the whole thing as a package.

7 But realistically when it comes to health insurance
8 discrimination and employment discrimination when you look
9 at what has been done say in some of the states, the effort
10 to sort of make an omnibus bill that covers generic as
11 opposed to genetic discrimination has often floundered
12 because it produced too many complexities, too many enemies
13 and nothing happened.

14 I think it is possible, practical and achievable to
15 produce something in the way of legislation that protects
16 against health insurance discrimination and employment
17 discrimination based on genetic information. I think that
18 is a viable strategy. It does not solve the whole problem,
19 but it is, as you quoted David may be saying, sort of a
20 wedge to get into a larger issue.

21 With privacy, however, it is not -- that is the
22 problem. I mean, it would be a great strategy, but how are
23 you going to take a medical record and separate it out into
24 its various components and say, "Well, that lab test was
25 not genetic and this one was," when we all understand that
26 they are all interconnected. There I think it would be

1 rather self-defeating to try to have a specific effort and
2 genetic information as deserving some sort of special
3 protection and, therefore, just demanding some sort of
4 special system of record keeping. There you sort of have
5 to do it all which is one of the reasons that it is really
6 hard.

7 With regard to patenting very quickly, I did not bring
8 up patenting although I was pretty sure somebody would ask.
9 I think the discussions about patenting have matured a good
10 deal over the course of the last five or six years since
11 this has been around when it came to specifically very high
12 intensity discussions about DNA fragments. I am not going
13 to say anything about animal patenting.

14 I think many of the discussions that used to be sort
15 of based on moral arguments, people have sort of come
16 around to the idea that that does not necessarily serve the
17 needs of an issue which is largely a legal issue. Does
18 patenting serve the public or not?

19 When the founding fathers came up with their schemes
20 for allowing patent protection for inventions so that an
21 inventor would be motivated to develop something into a
22 useful product, were they thinking of something that DNA
23 sort of represents? Well, sometimes yes and sometimes no.

24 My own sense is there are circumstances where a DNA
25 fragment that codes for a useful protein -- I am sure Steve
26 Holtzman would be happy to endorse this view -- are

1 appropriate for patent protection because they inspire the
2 development of a very useful product like erythropoietin,
3 for instance. There are other circumstances where there is
4 no sort of utility being met and you do not know what the
5 sequence does and it seems almost ludicrous. The real
6 question is where in between should one draw that boundary
7 and boundaries like that are always hard to draw.

8 Is patenting a gene like BRCA-1 for purely diagnostic
9 purposes? Does that serve the public interest? I think we
10 do not have enough experience yet to know.

11 But my sense was this is an area where the changes --
12 what the PT0 is going to say is still not clear. Whether
13 the PT0 will listen to anybody, including this commission,
14 is not clear. Whether legislation in the patent area is
15 ever a good idea is not clear. It sort of seemed like a
16 less fertile field. That is my own sort of personal
17 private view.

18 DR. SHAPIRO: Thank you. I have three more members of
19 the commission who want to speak and then Francis, I know,
20 has got some time constraints and we also have to get on
21 with other agenda items.

22 Bernie?

23 DR. LO: I want to thank you for coming and laying out
24 so nicely sort of what ELSI has done. As I was listening
25 to your three suggestions for us it struck me that the
26 audience for those three suggestions was going to be

1 legislators or regulators. As I was listening to you the
2 answer to these would be some sort of omnibus law on
3 privacy of medical information and so forth.

4 We were talking earlier about sort of trying to, you
5 know, produce a product and be pragmatic and everything.
6 And I just -- there could be several concerns raised about
7 trying to think that what we will do will sort of inspire a
8 legislator or Congress to act. One is it is always a role
9 of the dice as to what gets passed and what does not.

10 And certainly there is clearly sort of an
11 antiregulatory sentiment certainly in parts of Congress and
12 parts of our country. Even though there may be a need
13 for regulation I can imagine people lining up to say,
14 "Well, if you regulate it, it is going to be over
15 regulation, burdensome, et cetera, et cetera."

16 Again, following your sort of suggestion you do not
17 want to put all your eggs in one basket when you are just
18 sort of starting out in an endeavor, are there ways in
19 which we could address these very important topics and not
20 fall in the trap of just making recommendations that other
21 people do not turn to? Is there a way of sort of enlarging
22 the audience to try and work for voluntary guidelines by
23 professional organizations, health care service, integrated
24 systems? I mean, some way that some of this could be done
25 without having to depend on legislation and regulation.

26 I guess that is a general topic for us because there

1 may be some things that, you know, are uniquely within the
2 providence of government to pass laws on. But we do not
3 have the power to pass the laws directly and that leap
4 between our recommendation and their enactment can be
5 pretty tough.

6 DR. COLLINS: Yes. I think of the three topics I
7 suggested certainly one of them does not require
8 legislation. The archive tissue sample example I think
9 really requires a thoughtful look at the recommendations
10 that other groups have put together trying to figure out
11 where is the appropriate balance between the various needs
12 and then a recommendation which I think could be made
13 directly to OPRR and other parts of other agencies that are
14 responsible for human subjects oversight. I think the time
15 is right for that.

16 Much of probably what needs to be done is at least
17 imaginable when you look at the existing guidelines like 45
18 CFR 46. But it needs some clarification. IRBs will
19 probably need some instruction. While this may seem sort
20 of a narrow issue in some ways, I think it is a very
21 achievable one and it does not require you to have an
22 audience that is sort of unpredictable like the members of
23 the Congress.

24 The other two issues I honestly am not sure how you
25 can make much progress in medical record privacy or in
26 health insurance discrimination without legislation. I

1 mean I would hate to go back and say there ought to be a
2 law that in this situation it sort of seems as if that is
3 the most likely way to get a solution because there are
4 strong motivating factors not to necessarily adhere to
5 these principles which I think all of us around the table
6 would like to think we stand for that are driven by other
7 forces. And even if you can get some part of the equation
8 to behave properly the other parts may not.

9 I understand what you are saying and I am concerned as
10 well about what is this commission's audience most
11 effectively going to be and are you in a situation where
12 you can expect to have an impact of that sort. But I would
13 certainly encourage trying.

14 DR. SHAPIRO: Arturo?

15 DR. BRITO: Kind of along those lines and about this
16 commission and what our role is, and I am not sure my
17 question or my point has to do with what our role is. But
18 it is interesting because during your talk and any of these
19 readings and most readings, whether it is the lay journals
20 or scientific journals, there is a lot of concern, the big
21 focus is on the health insurance and employment coverage,
22 et cetera. But it is exciting to know that there is a
23 potential preventive measure about finding out somebody's
24 genetic predisposition to a certain disease.

25 But I had not heard mentioned or talked about people
26 that are in the latent stage of this potentially fatal

1 disease genetically predisposed to it and what about the
2 right to know that you have this potentially fatal disease
3 and what is going to be done and what guarantees are there
4 for the people in this country that -- first of all, will
5 they be able to find out that they have this disease?

6 And, second of all, will there be any preventive
7 measures or any means for providing those preventive
8 measures? Because if we start providing the ability for
9 only a certain segment of our population to receive
10 screening and further to receive the preventive measures so
11 they do not develop these diseases, what about the rest of
12 the public?

13 So I do not know if this is something -- I think it is
14 definitely an important issue and it is going to become
15 even more important as more and more diseases are defined
16 in this way. I am just -- I am not sure how far this
17 commission can take a big interest in this because we
18 already see it with something that is -- mammography
19 screening, for instance. This is not available to everyone
20 in the population and when it is available there is a delay
21 in getting appropriate care.

22 DR. COLLINS: That is a very serious issue. Genetic
23 interventions and testing are going to be expensive. Who
24 will have access to those services and it will be the same
25 problem that we have with medical care in general only
26 maybe even particularly so here because of expense and

1 because of complexity and the need for sophisticated health
2 care providers that you often do not find except in
3 tertiary care centers. It is a very serious issue. How
4 will we engineer the delivery of medical services so that
5 this technology does not end up being even less fairly
6 distributed?

7 DR. BRITO: And along those lines, the reason I bring
8 that up, too, is that from my point of view and the point
9 of view of a lot of people, and statistically too,
10 preventive care is more cost effective than reactive care
11 or waiting until the disease develops. So that is just
12 something that maybe from the beginning, not wait to find
13 this out. Particularly in genetics if you could do
14 preventive care early on even though it is costly it is
15 definitely going to be less costly than waiting until down
16 the road.

17 DR. COLLINS: That is a very good point.

18 PROF. CAPRON: Didn't your insurance task force say
19 exactly that?

20 DR. COLLINS: Tom Murray's task force talked about
21 access, indeed. And it is also mentioned in the ELSI
22 Working Group Action Plan. It is one of those things that
23 you cannot be -- you can hardly disagree with. I mean the
24 question is how do you make that happen in a medical care
25 system which is currently very unfair.

26 DR. SHAPIRO: The last question and then we have got

1 to let Francis go and get on with our agenda.

2 David?

3 DR. COX: This is the issue with respect to privacy.
4 We heard Eric basically say that right now medical records
5 are not private and they are out there. We heard you say,
6 and it is my prejudice also, that it is not smart sort of -
7 - and actually what Eric implied, it is a very hard
8 problem. So we clearly want to fix it, but it is a very
9 tough nut to crack.

10 So the question would be then, well, one way to crack
11 a tough nut is break it down and make it more narrow. But
12 you said, and I agree, that it is a wise move right now at
13 least with respect to privacy to put genetics off.

14 So there is another potential tact that people have
15 thought about and that is instead of trying to close the
16 barn door when the horse is already out, is to do it a
17 different way and deal with the issue of informed consent.
18 Now some people do not see informed consent as privacy, but
19 in fact that is another way -- a potential way to get at
20 this.

21 So do you then given that the privacy issue with
22 medical records is going to be very difficult that we
23 should proceed with that? Do you see that tackling
24 informed consent is a way of perhaps getting around it is a
25 possibility and/or should we be doing both? This is in the
26 context of this commission and, you know, real time and

1 real money.

2 DR. COLLINS: That is a very tough question . I think
3 informed consent has to be part of any meaningful privacy
4 legislation or policy because you must have situations
5 where the information can be given out for that person's
6 benefit because they want to know that. So under what
7 circumstances? Well, you always come back to informed
8 consent.

9 But is that sufficient? I guess it is hard for me to
10 imagine a circumstance where you would not find multiple
11 ways of getting around that by accidental determination or
12 simply by volunteering of that information without
13 intending to.

14 DR. COX: But I will make it even harder, Francis. If
15 you had a choice, I am only giving -- you have to pick one
16 or the other. Okay. Where should we focus? I know that
17 that is totally unfair because we would like to have -- I
18 think we need the two.

19 DR. COLLINS: I think you have to come up with very
20 strict regulations that limit access with really muscular
21 provisions to punish those who break those rules. I think
22 informed consent alone will not.

23 DR. CASSELL: No, but with informed consent if people
24 give consent they are informed and then that consent acts
25 not at the time of disclosure, but at the time later on
26 when you are getting their insurance company consent. They

1 have no idea what is in their record and then they are
2 shocked to discover they have now consented to knowledge
3 about their childhood behavior.

4 DR. COLLINS: The paradox we heard yesterday about
5 informed consent is that the more you depend on it the less
6 it means because people are signing and signing and
7 signing, and after a while they are not reading what they
8 are signing at all.

9 DR. COX: And so the conclusion, which is actually my
10 own and it is quite worrisome, is that there is no easy way
11 out of this particular privacy issue with respect to
12 medical records?

13 DR. COLLINS: That is correct.

14 DR. SHAPIRO: Well, let me thank Francis very much for
15 your very thoughtful and stimulating remarks. Thank you
16 for taking the time to come today. It is a pleasure to
17 have you here.

18 We will break for about ten minutes. We have just
19 given away five minutes of our break. Let's try to get
20 back here in ten minutes.

21 Thank you very, very much.

22 (Whereupon, a break was taken from 2:42 p.m. until
23 2:59 p.m.)

24 DR. SHAPIRO: I would like now to move on to the next
25 item on our agenda if I could have your attention, please.

26 I would like to introduce Dr. Gary Ellis, the Chair of

1 the Human Subjects Research Subcommittee.

2 Gary, I do not know what to entitle your remarks.

3 But he is going to give us an assessment, I believe,
4 of human subject protection as it is working today. Of
5 course, Gary is, as you know, out of OPRR and has been very
6 active in this area and he is very central to it.

7 Gary, thank you very much for coming.

8 RESEARCH INVOLVING HUMAN SUBJECTS

9 DR. GARY B. ELLIS

10 CHAIRMAN, HUMAN SUBJECTS RESEARCH SUBCOMMITTEE,

11 COMMITTEE ON HEALTH, SAFETY, AND FOOD,

12 NATIONAL SCIENCE AND TECHNOLOGY COUNCIL

13 DR. ELLIS: Thank you, Harold.

14 In my bland way I have titled my remarks "remarks."

15 (Laughter.)

16 I appreciate the opportunity to speak to the
17 commission and it is a privilege.

18 (Slide.)

19 The Subcommittee on Human Subjects Research is the
20 interagency body that oversees the uniform implementation
21 of the "Federal Policy for the Protection of Human
22 Subjects," you have a copy of that in your briefing book,
23 among 17 adherent federal departments and agencies.

24 This interagency group of federal officials has met
25 regularly for more than 13 years without interruption.

26 Yesterday the subcommittee met for the 19th time during my

1 tenure as chairman which began in 1993. Subcommittee
2 members asked me yesterday to emphasize today both their
3 willingness and their strong desire to work with the NBAC
4 in any way that will assist the commission in its
5 consideration of protecting the rights and welfare of human
6 research subjects. To that end most of the department and
7 agency human subject representatives are present this
8 afternoon at this inaugural meeting.

9 (Slide.)

10 Well, it is ironic to note as we consider human
11 subject protections in 1996 that more than 30 years ago
12 Congress conferred certain protections on laboratory
13 animals. In August 1966 the President signed the Animal
14 Welfare Act into law. It has been amended four times
15 since.

16 (Slide.)

17 The Animal Welfare Act states that when research
18 involves any live or dead dog, cat, monkey, guinea pig,
19 hamster or rabbit the research facility must, among other
20 things --

21 (Slide.)

22 -- register annually with the U.S. Department of
23 Agriculture, provide an annual census of animals used in
24 research to USDA, and report annually on animals and
25 procedures that involved pain or distress, alleviation of
26 pain or distress, or no pain or distress. Violations of

1 the Animal Welfare Act carry civil penalties and in certain
2 instances prison terms.

3 (Slide.)

4 What I am about to say may be surprising to some.
5 With regard to human subjects there is no law that confers
6 upon all individuals who may be research subjects the twin
7 protections of institutional review board review and
8 informed consent. There is no annual registration of all
9 research sites, no annual census, and no reporting of pain
10 or distress.

11 Please do not interpret me as being an alarmist.
12 Indeed, as a general statement --

13 (Slide.)

14 -- human research subjects have never been more well
15 protected than they are at this moment. But this
16 commission's analyses need go beyond generality. Let me
17 describe the system of protections in place today.

18 (Slide.)

19 The Federal Policy for the Protection of Human
20 Subjects, also known as the Common Rule, applies to human
21 subjects research conducted or supported by 17 different
22 federal departments and agencies.

23 (Slide.)

24 A copy of this policy, as I said, is in your briefing
25 book.

26 (Slide.)

1 The Food and Drug Administration has human subject
2 protection regulations that apply to research involving
3 products regulated by FDA, such as drugs, biologics and
4 medical devices. And FDA concurs with the Federal Policy
5 for the Protection of Human Subjects.

6 (Slide.)

7 It is noteworthy, too, that the regulations of the
8 Department of Health and Human Services, Title 45 Code of
9 Federal Regulations Part 46, a copy is included in your
10 briefing book, go beyond the Federal Policy for the
11 Protection of Human Subjects by including additional
12 protections when research involves certain vulnerable
13 subjects. For example, pregnant women, prisoners and
14 children. Several departments and agencies beyond HHS have
15 embraced these additional HHS protections.

16 (Slide.)

17 Many biomedical or behavioral research institutions
18 that receive HHS support for human subjects research have
19 elected on a voluntary basis to pledge all human subjects
20 research conducted under their auspices irrespective of
21 funding to the HHS Human Subject Regulations at 45 CFR Part
22 46.

23 (Slide.)

24 Now human subjects involved in research beyond the
25 perimeter of the preceding protections that I have
26 described are protected only by occasional state or local

1 law or regulation, or at the discretion of the individuals
2 or institutions undertaking the research.

3 Now let me put it another way. We know that there is
4 human subjects research that is not conducted or supported
5 by any of 17 federal departments or agencies that adhere to
6 the common rule, not regulated by the Food and Drug
7 Administration, and not voluntarily pledged to HHS
8 regulations at 45 CFR 46.

9 (Slide.)

10 In one department, HHS, the Office for Protection from
11 Research Risks, which I direct, receives a number of
12 inquiries involving human subjects research over which it
13 has no jurisdiction. Most are informal inquiries received
14 over the telephone and are never pursued by OPRR. A few
15 such complaints are presented to OPRR in writing and are
16 reviewed in sufficient depth to confirm OPRR's lack of
17 jurisdiction.

18 (Slide.)

19 Let me describe some examples drawn from OPRR files.
20 The parents of a young child who underwent experimental
21 bone marrow transplantation alleged that they were not
22 adequately informed about the procedure's reasonably
23 foreseeable risks, including the severe brain damage which
24 their child suffered.

25 A second example, it was alleged that women who had
26 experienced multiple miscarriages were misled about the

1 substantial financial costs of participating in research to
2 enhance pregnancy.

3 A third example involved a mid-level state university
4 where there was a considerable controversy about
5 appropriate confidentiality protections for subjects
6 involved in the study of adult literacy as well as charges
7 of conflict of interest among members of the university's
8 institutional review board.

9 A fourth example, a woman who had been treated for
10 breast cancer alleged that identifiable private information
11 from her medical record had been placed in a registry and
12 made available to research investigators without her
13 consent.

14 In each of these examples OPRR was unable to pursue
15 the allegations because the research was neither supported
16 by the Federal Government, nor voluntarily pledged to HHS
17 regulations under an institutional assurance of compliance
18 submitted to OPRR.

19 (Slide.)

20 OPRR believes that the overwhelming majority of human
21 subjects research outside of its purview never comes to its
22 attention. Some months back, for example, the New York
23 Times reported two examples of human subjects research done
24 apparently outside of the scope of current protections.

25 One involved 126 pregnant patients of a New York City
26 doctor. The other involved an unknown number of North

1 Carolina school children and their families.

2 These research subjects are real people. They are our
3 fellow Americans. In 1996 we do not have the tools
4 necessary to ensure that they and all human subjects are
5 protected by first initial and continuing IRB review and,
6 secondly, legally effective informed consent.

7 As you proceed with your consideration of protecting
8 the rights and welfare of human subjects, please do not
9 advance beyond what I would call square one without
10 articulating a meaningful standard of protection for all
11 individuals who may be research subjects. If as you reach
12 conclusion you find it somehow appropriate to stop short of
13 conferring upon all individuals who may be research
14 subjects the twin protections of IRB review and informed
15 consent, please ask yourselves why is that acceptable? I
16 have no answer to that question.

17 (Slide.)

18 With respect to research conducted, supported or
19 regulated by the Federal Government, the President's
20 October 3rd, 1995, Executive Order mandated that
21 departments and agencies report to the commission regarding
22 existing policies and procedures related to human subject
23 research. All member departments and agencies of the
24 Subcommittee on Human Subjects Research have conveyed
25 reports to your chairman.

26 In reviewing these reports you will find that across

1 the board the Federal Government is employing its most
2 powerful tool, education. This is our best and most
3 effective instrument to enhance the protection of human
4 subjects. Education is preventive maintenance for our
5 dynamic and ever evolving system of protecting human
6 research subjects.

7 (Slide.)

8 Already today you have discussed informed consent. We
9 put great stock in a structured informed consent process
10 and in a written informed consent document that embodies
11 certain required elements of informed consent.

12 (Slide.)

13 The informed consent process is an information
14 exchange that includes subject recruitment materials, oral
15 instructions, written information, question and answer
16 sessions, voluntary agreement and continuing understanding
17 or agreement.

18 (Slide.)

19 Federal regulations specify 14 potential elements of
20 informed consent. Eight of which are required.

21 (Slide.)

22 First, a statement that the study involves research.
23 An explanation of the purposes of the research and the
24 expected duration of the subject's participation, a
25 description of the procedures to be followed, and
26 identification of any procedures which are experimental.

1 (Slide.)

2 Second, a description of any reasonably foreseeable
3 risks or discomforts to the subject.

4 (Slide.)

5 Third, a description of any benefits to the subject or
6 to others which may reasonably be expected from the
7 research.

8 (Slide.)

9 Fourth, a disclosure of appropriate alternative
10 procedures or courses of treatment, if any, that might be
11 advantageous to the subject.

12 (Slide.)

13 Fifth, a statement describing the extent, if any, to
14 which confidentiality of records identifying the subject
15 will be maintained.

16 (Slide.)

17 Sixth, for research involving more than minimal risk
18 an explanation as to whether any compensation and an
19 explanation as to whether any medical treatments are
20 available if injury occurs and, if so, what they consist of
21 or where further information may be obtained.

22 (Slide.)

23 Seventh, an explanation of whom to contact for answers
24 to pertinent questions about the research and research
25 subject's rights and whom to contact in the event of a
26 research related injury to the subject.

1 (Slide.)

2 Eighth, a statement that participation is voluntary.
3 Refusal to participate will involve no penalty or loss of
4 benefits to which a subject is otherwise entitled and the
5 subject may discontinue participation at any time without
6 penalty or loss of benefits to which the subject is
7 otherwise entitled.

8 (Slide.)

9 A researcher who seeks to recruit an individual for
10 research without conveying these elements of information in
11 language understandable to the potential subject is not
12 obtaining informed consent. The specificity of this
13 federal regulatory language, its endurance through many
14 years, and the enthusiasm with which we all adhere to it
15 belie the fact that little empirical work exists to
16 document the degree of understanding achieved by research
17 participants.

18 There is a scarcity of data that bear upon, for
19 example, research subject's comprehension of a study's
20 methods and procedures; research subject's understanding of
21 relative risks and benefits of participation; subject's
22 understanding of confidentiality and any exceptions to
23 confidentiality; and subject's understanding of the
24 implications of withdrawal from a study.

25 Such data are needed to aid in designing informed
26 consent procedures that are readily comprehended by

1 prospective participants and at the same time impart all
2 critical information.

3 (Slide.)

4 In this vein I am delighted to see a newly minted
5 request for applications from the National Institutes of
6 Health for original research proposals in the area of
7 informed consent in research involving human participants.
8 NIH, the Department of Energy, and the Department of
9 Veterans Affairs will make available fiscal year 1997
10 research funds for investigations into the informed consent
11 process in biomedical and behavioral research.

12 This is an exciting investment by funders in the
13 development of new knowledge relating to informed consent.
14 These three agencies are igniting the engine of research in
15 an area that has for too long been under explored. I
16 understand that two additional agencies, the National
17 Science Foundation and the Department of Defense, are
18 strongly committed to joining this effort. The notice
19 about this RFA is available in the room this afternoon.

20 (Slide.)

21 A few words about institutional review boards.

22 (Slide.)

23 The IRB is by federal regulation to be established at
24 the local level and has a minimum of five people, including
25 at least one scientist, one nonscientist, and one person
26 not otherwise affiliated with that institution. The

1 nonscientist must be present at IRB meetings.

2 (Slide.)

3 IRB review is a local review by individuals who are in
4 the best position to know the resources of the institution,
5 the capabilities and reputations of the investigators and
6 staff, and the prevailing values and ethics of the
7 community and likely subject population.

8 (Slide.)

9 Federal regulations invest IRBs with specific
10 responsibilities.

11 (Slide.)

12 IRB review assures that risks are minimized, that
13 risks are reasonable in relation to anticipated benefits,
14 that selection of subjects is equitable, that there is
15 proper informed consent, and that the rights and welfare of
16 subjects are maintained in other ways as well. This is
17 particularly important when subjects are likely to be
18 vulnerable to coercion or to undue influence.

19 With an estimated 3,500 IRBs operating today in the
20 United States the local IRB at the research site is the
21 cornerstone of our American system of protection of
22 research subjects.

23 (Slide.)

24 The March 1996 report by Congress' General Accounting
25 Office, "Scientific Research: Continued Vigilance Critical
26 to Protecting Human Subjects," acknowledged what GAO termed

1 "the conspicuous activity of local institutional review
2 boards." GAO noted "the struggle to balance two sometimes
3 competing objectives, the need to protect research subjects
4 from avoidable harm and the desire to minimize regulatory
5 burden on research institutions and their individual
6 scientists."

7 (Slide.)

8 In the final analysis the member department and
9 agencies of the Subcommittee on Human Subjects Research
10 along with research institutions, IRBs and investigators
11 are the stewards of a trust agreement with the people, both
12 patients and healthy individuals, who volunteer to be
13 research subjects.

14 (Slide.)

15 We have a system in place that to the greatest degree
16 possible first minimizes the potential for harm; second,
17 enables and protects individual autonomous choice; and,
18 third, promotes the pursuit of new knowledge. By doing so
19 we protect the rights and welfare of our fellow citizens
20 who make a remarkable contribution to the common good by
21 electing to volunteer for research studies. We owe them
22 our best effort.

23 (Slide.)

24 Please let that effort begin anew with your completing
25 the unfinished business of extending the existing umbrellas
26 of protection to cover all Americans who may be involved in

1 research.

2 (Slide.)

3 Let me make just a few comments based on some
4 discussion earlier. Alta Charo asked Leonard Weiss if he
5 could prioritize his list of items that he presented to the
6 committee. Let me offer two priorities based on his
7 remarks and my own remarks.

8 I see two categories of general activity for the
9 commission. First, to extend the protections that exist,
10 and a second priority behind that first priority, to
11 enhance existing protections. First, extend; then enhance
12 what is in place.

13 (Slide.)

14 We heard discussion this morning about the fundamental
15 principles underlying our human subject protections and in
16 your briefing book is a copy of the Belmont Report, so
17 named after a Maryland Conference Center. This is the
18 single most enduring product of a very productive
19 commission, the National Commission. OPRR prints and
20 distributes about 10,000 copies of this brochure every
21 year. It is used by many target audiences ranging from lay
22 people to IRB members, to research investigators,
23 administrators and so on.

24 The Belmont Report describes three principles. You
25 know these principles. Respect for persons.

26 (Slide.)

1 Beneficence. Literally some good must come of the
2 research. And justice.

3 The discussion this morning, which I endorse and I
4 believe is right on target, suggests that in the
5 intervening years since 1978 a fourth principle may be
6 evolving.

7 (Slide.)

8 I will label that principle "community," but I ask you
9 as a commission to flush out what this principle means and
10 to afford IRBs, research investigators, and others the
11 opportunity to factor this into the formal mix of
12 principles as they weigh those principles in reviewing and
13 approving research.

14 Put simply, it may be that during your tenure you will
15 pass the 20 year anniversary of the Belmont Report and you
16 may wish to revisit it and update it.

17 (Slide.)

18 Finally, again Alta Charo mentioned Tuskegee. We have
19 heard one mention of it only today and I do not think that
20 we would want to go by with so brief a mention as we had.

21 (Slide.)

22 In fiscal year 1995 the Department of Health and Human
23 Services spent \$2.7 million dollars for the medical
24 expenses, burial expenses and other expenses of the
25 survivors of the Tuskegee Syphilis Study. I will update
26 this slide for the fiscal year that ended last Monday

1 night.

2 (Slide.)

3 There are alive today 12 participants, 12 men who were
4 in the Tuskegee Syphilis Study. Their average is 89 years.
5 There are 23 of their wives and widows and 18 offspring.
6 The government, society, can never really repay the debt
7 owed to these individuals for the harm that was done to
8 them. But we will service that debt for as long as it
9 takes.

10 And I close with this as a reminder of the cost of
11 missteps in our work. I hope that I and my successors will
12 not be able to show slides like this ever again. The work
13 that you begin today can help ensure that that is the case.

14 Thank you very much.

15 DR. SHAPIRO: Gary, thank you very much. I also want
16 to extend our gratitude to your colleagues you work with
17 and other agencies who work with you.

18 DR. ELLIS: They are here.

19 DR. SHAPIRO: Let me thank them for being here today.

20 Let me now turn to the commission for questions they
21 might have. Alex, then Alta, then Jim.

22 PROF. CAPRON: Gary, one cannot help but be moved by
23 your question about why is it acceptable to have some
24 research subjects not protected by an IRB and legally
25 effective informed consent. As I understand the terrain,
26 research is conducted in two sets of institutions. Those

1 which receive federal funds and those that do not. As to
2 the latter some of the researcher's research is sponsored
3 by people who have an intention of taking something to the
4 FDA and so that research is covered by the same set of
5 protections. So there is the subset of research that is
6 carried on privately that is not ever going to go to the
7 FDA and so it is not covered.

8 Within the institutions that are recipients of federal
9 funds, as I understand it, those institutions in their
10 assurance can voluntarily choose to agree that they will
11 review all research. Is that right?

12 DR. ELLIS: That is correct.

13 PROF. CAPRON: Your proposal to us then addresses what
14 should happen as to research conducted at institutions that
15 have federal assurances but do not make that promise and
16 research not conducted at federal institutions that is not
17 covered by the FDA, is that correct?

18 DR. ELLIS: The only thing I would add to that, Alex,
19 is you might want to consider the strength of the
20 foundation of a system that relies on a voluntary
21 commitment of those major biomedical research institutions
22 to follow the rules.

23 We are very proud that we have been able to extract
24 that promise from about 450 -- in other words, all the
25 major biomedical research institutions commit, 99 percent
26 of them commit all research, irrespective of funding, to

1 our rules. But we are well aware that that is a voluntary
2 elective step on their part.

3 PROF. CAPRON: Since we are not the Congress of the
4 United States, what has kept you in your own regulations
5 from requiring that all institutions that want to receive
6 federal funds for their research agree to review all
7 research that will be conducted at the institution?

8 DR. ELLIS: I am not certain, and the Council for the
9 Department of Health and Human Services representative, I
10 am not certain that the department has that authority at
11 all. As it stands now the regulations across 17 agencies
12 follow the federal funds for human subjects research. And
13 not being a lawyer I yield to you and others. It is not
14 clear where the authority would come from to requiring
15 institutions that receive money for this project to apply
16 the rule to that project.

17 PROF. CAPRON: What I am saying -- I guess my question
18 is an oblique one. If the Grove City case, the Supreme
19 Court case, suggests that you cannot do that, you cannot
20 tie to federal funds requirements about how they conduct
21 themselves outside of federal funds, I am not sure what you
22 think we could do about that.

23 I mean, if you have been unable to do it, what are we
24 supposed to do about it? And so I mean -- I say I was
25 moved by your plea, but it is certainly something which
26 you, yourselves, could have acted on if all it took was

1 saying so it should be. If the Federal Government does not
2 have that authority or -- I am just puzzled what you are
3 asking us to do.

4 As to those institutions -- and as someone who is
5 conducting research at a private hospital or a doctor's
6 office, doctors doing research or one of these in vitro
7 operations that is doing research. Because the techniques
8 are not very well proven and it really ought to be called
9 research, but the patients are paying for it.

10 What is -- if we have a handle, why don't you have a
11 handle?

12 DR. ELLIS: Well, let's suppose that the government
13 were to pursue your first course of action and to cover
14 those institutions receiving federal funds. The frontier
15 protector would have been extended that far and we would
16 still have those individual research subjects who are
17 outside of that --

18 PROF. CAPRON: Well, I agree. But I am saying as to
19 either one, I do not know the hook to hang my hat on that
20 you would not already have to hang your hat on.

21 DR. ELLIS: I am suggesting if we were to begin anew
22 today and create a system for protection of research
23 subjects, we would not proceed in a patchwork fashion. I
24 do not use that term pejoratively, just descriptively, in a
25 patchwork fashion as it stands now. We might say that any
26 research subject in the United States deserves these

1 protections. So the discussion you and I are having right
2 now is whether to proceed and add another patch to the
3 patchwork system to extend the frontier or to step back and
4 say let's build the system correctly from the start.

5 DR. SHAPIRO: I guess the question is who would have
6 the legal capacity to do that?

7 PROF. CAPRON: I mean, we have -- it is not as though
8 the issue is not arcane in that you cited examples of
9 people who have been injured. You are an existing office.
10 You have a consortium of all the federal departments and
11 agencies, a couple of dozen of them that sponsor and
12 conduct research.

13 DR. ELLIS: We have no authority over those agencies.
14 We work together collaboratively.

15 PROF. CAPRON: I know. I know. But, I mean, if this
16 were the kind of thing that was an important issue -- I
17 guess, I am asking are you asking us to tell you that you
18 should do the right thing? Are you asking us to tell
19 Congress that Congress should let you do the right thing?

20 DR. ELLIS: I am asking you to consider whether it is
21 important that every research subject in the United States
22 should have these protections.

23 PROF. CAPRON: Of course.

24 (Simultaneous discussion.)

25 PROF. CHARO: Alex, before you have a stroke --

26 DR. MIKE: I think this discussion is going on too

1 long. Can we move on?

2 DR. SHAPIRO: It is unresolved, Alex. We are short of

3 --

4 PROF. CAPRON: I think we need to schedule then at one
5 of our meetings a chance where the discussion will not be
6 regarded as going on too long. If we are going to raise
7 these issues we have got to have a day or so to hear in
8 detail about them.

9 DR. SHAPIRO: I agree to that.

10 PROF. CHARO: Without losing the chance to ask you
11 specifically about the task force's work on some of those
12 vulnerable populations because I know about some efforts
13 for a long time to revise some of them for pregnant women
14 and I was not sure if it also applied to prisoners, et
15 cetera. So, please, keep that in mind to just give us an
16 update.

17 I have just got to add two things here. There are
18 other approaches besides going at it through federal
19 funding and ties. You could look at the international
20 documents we have signed having to do with human rights and
21 see whether or not they give authority to the U.S. Congress
22 to implement them on a national level. You could also
23 check under the interstate commerce clause whether or not
24 we would be able to get away with saying no product can be
25 put into commerce if it was developed or if its components
26 were developed using research that does not meet certain

1 standards. That would also be possible.

2 So there are other avenues for going at this and I
3 agree that a more leisurely discussion for strategies could
4 be arranged.

5 DR. ELLIS: And you might add the National Conference
6 of Commissioners to Uniform State Laws. That is another
7 avenue.

8 PROF. CHARO: It is another avenue although much more
9 complicated.

10 DR. ELLIS: Be creative. That is all I am asking.

11 PROF. CHARO: And for the vulnerable population stuff,
12 just an update?

13 DR. ELLIS: Well, you mentioned pregnant women. The
14 Public Health Service Working Group on Human Subject
15 regulations completed a revision of what we call Subpart B,
16 Additional Protections for Research Involving Pregnant
17 Women, Fetuses, and In Vitro Fertilization, in summer of
18 1995, and it has been forward to the Secretary of Health
19 and Human Services for her consideration to put out a
20 proposed revision. That part of the human subject
21 regulations is the most dated. It was last revised in
22 1978. So the proposed rule is under consideration by the
23 Secretary.

24 If the commission has a special interest in seeing the
25 revision or proposed revision to Subpart B of the HHS
26 regulations, the commission certainly could make that

1 interest known to the Secretary. I am sure she would be
2 interested in this.

3 DR. SHAPIRO: Jim?

4 DR. CHILDRESS: Thank you very much for that clear and
5 helpful presentation. Let me ask three questions. One,
6 you suggested the addition of community, that falls in line
7 with the humanitarian thrust into our discussions. But I
8 guess I am curious about what you think it adds to what is
9 already present in beneficence. Is it something new or
10 does it simply add additional weight?

11 I will just go ahead and give you all three and then
12 you can respond to them.

13 Second, you have talked about extending protections
14 but also enhancing protections and I was less clear really
15 what you had included under enhancing protections.

16 And then third you emphasized the protective role of
17 IRB review and the importance of having access to that
18 protective role. And yet you mentioned the GAO report
19 which does raise some problems with that IRB review and we
20 have talked about that some already today. Are there other
21 studies that we should look at that would help us get some
22 -- a good sense of what is going on in IRBs, what kinds of
23 problems are there?

24 I just had -- we just got the GAO report today so I
25 only had a chance to glance at it and I do not know whether
26 you think it is sufficient or whether you think more needs

1 to be done, or whether other stuff is available.

2 DR. ELLIS: Well, answering the last question first, I
3 thought the GAO report was very good. We worked with the
4 GAO for a year-and-a-half and these were very bright
5 auditors and they got the point and they expressed it well
6 in their report. I cannot give any higher praise to my
7 fellow government workers.

8 The first point, community, I am taking note that
9 Francis Collins' presentation, for example, in the area of
10 genetic research. But the research subject may not be an
11 individual anymore, but an individual plus those blood
12 relatives.

13 And beyond that, particularly Dr. Mike mentioned in
14 minority communities, not just blood relatives, but
15 neighbors and friends may be so closely apposed, not
16 opposed, but apposed to the research subject to be
17 considered in the calculation of respect for persons, the
18 weighing of risk and benefits, the equitable selection of
19 subjects, and then interests of individuals other than the
20 research subject, as we have classically thought of that
21 individual, whose interests may need to be factored in.

22 I know that IRBs are already factoring in community
23 interest and it might be time to expand and explicate this
24 principle and put it into the existing dogma formally.

25 The second question you had, enhancement of existing
26 protections, I am considering additional elements of

1 informed consent that might be judged to be required,
2 changes in composition of the IRB. The skeleton IRB of
3 five individuals with one nonaffiliated member, one
4 nonscientist member, a gender balance that requires at
5 least one member of the opposite sex, whatever the majority
6 sex is on the board.

7 Those may be assumptions that need to be revisited.
8 So the core elements of what makes an IRB, what means an
9 IRB, and the elements of informed consent. That is what I
10 was referring to.

11 DR. CHILDRESS: Thank you.

12 DR. SHAPIRO: Diane?

13 DR. SCOTT-JONES: I was going to ask about community,
14 but it has already been asked and answered.

15 DR. SHAPIRO: Thank you for your thoughtfulness.
16 David?

17 DR. COX: I have a question about IRBs and it is
18 really a sort of structural process question. Given all
19 the things -- you laid out, I think, very beautifully the
20 advantages of having IRB, you know, local knowledge, all
21 that good stuff. But given what is coming down on them
22 right now in terms of all the things that they have to do,
23 both in terms of breadth of knowledge, as well as ensure
24 massive stuff that has to happen, is it your view that IRBs
25 are viable? So that -- I mean, is that the process from
26 your point of view that we should focus on and, if so, is

1 that because there is no other process you can see or
2 because you believe that that is, in fact, the best
3 process?

4 DR. ELLIS: Well, I think that they are viable. We
5 fault institutions for not making available to IRBs the
6 training. We heard a statement this morning that IRB
7 members ought to be trained. Hear, hear. The resources in
8 terms of staff support.

9 You might wonder why would I introduce the concept of
10 annual census of laboratory animals and imply that an
11 annual census of research subjects might be useful. It is
12 not that I am interested in the number of research
13 subjects, but that is a very useful predictor of the
14 resources necessary at the institution. I would like that
15 predictor as a federal regulator to see if the resources
16 match the volume of subjects.

17 I have lost my train of thought, but if that did not
18 answer let me know.

19 DR. COX: But it did, in fact, because what you are
20 saying then is that you believe this is a viable process
21 that we should work through to beef up rather than change
22 the process?

23 DR. ELLIS: It would be hard to bring to bear this
24 much time, effort and dedication for the relatively low
25 cost. Remember IRBs are largely volunteer effort. They
26 get by on the dedication and it is sincere dedication. We

1 go out to institutions and we are always impressed by the
2 dedication of the individuals at the table. They may not
3 know the regulations cold. In fact, they do not. But they
4 bring good sense, common sense on a volunteer basis to the
5 table and they do the right thing. I could not duplicate
6 that in any other way right now.

7 DR. SHAPIRO: Zeke?

8 DR. EMANUEL: I guess my question is a follow up
9 really Dr. Cox's. You were here for the morning and you
10 heard some of the comments by myself and others about the
11 possibility of thinking about moving a national IRB -- I
12 actually do not like that idea, but some other framework to
13 bolster possibly the local IRB. I know you have thought
14 about the IRB issue long and hard, probably longer and
15 harder than most of us. What is your reaction to
16 supplementing, not supplanting, but supplementing the IRB
17 process for particular, either complex research or research
18 that is multi-institutional or research that is with
19 particularly vulnerable subjects, et cetera?

20 DR. ELLIS: We endorse the maintenance of local
21 governments. The response to your interest is education.
22 There is no upper limit to the amount of education on a
23 national scale and a local scale that can be done. It is a
24 function of the resources committed to it. It works. It
25 is relatively cheap, effective.

26 DR. SHAPIRO: Any other comments?

1 Yes, Bernie. I am sorry. I had your name down. I am
2 sorry.

3 DR. LO: Gary, thanks for your presentation. Can I
4 ask you to think along with us about the problem of
5 conflict of interest? The Canadian report we got a copy
6 of, but you elevated that to sort of principle status
7 almost. And clearly if enhancing informed consent is one
8 way to deal with that, let the potential research subject
9 know if there is an apparent or potential actual conflict
10 of interest. But are there also some situations which are
11 so treacherous that they ought to be regulated or
12 prohibited as opposed to just relying on informing the
13 subject as the way to resolve it?

14 DR. ELLIS: No doubt there are situations that are so
15 treacherous that they must be addressed. But at the other
16 end of the spectrum even a simple financial conflict of
17 interest, how would it play out? Regulations could dictate
18 that the subject be told that the physician researcher
19 owned stock in the company that is developing the device.
20 So now that is revealed.

21 What is the subject to do with that information? We
22 have gone around and around on this in our office. I do
23 not have a clean answer. It is not that we are not
24 interested in pursuing this, but that opens a can of worms
25 that we may not have fully thought through. What is the
26 subject to do with that piece of information?

1 DR. LO: It probably depends on the subject. Some may
2 find it very pertinent to their decision to participate and
3 others may not.

4 DR. SHAPIRO: Tom? And then Eric. Then we are going
5 to have go on.

6 DR. MURRAY: Gary, you closed your talk by urging us
7 in priorities to extend, then enhance. I am a little
8 worried about that order because if we take seriously the
9 criticisms we have heard of the IRB system it is -- we are
10 in a difficult position telling other people, well, we have
11 this horribly flawed system that we think we really need to
12 revamp in a major way, but you want it now.

13 DR. ELLIS: I am not sure you have heard anyone say it
14 was horribly flawed. I did not.

15 DR. MURRAY: Yes. I have extended it a bit, haven't
16 I?

17 (Laughter.)

18 DR. MURRAY: How about significantly flawed? That
19 would still be enough to alert me. I would guess -- I
20 guess what I want to say is there seems to be two fronts
21 and maybe we ought to work on them simultaneously.

22 DR. ELLIS: That is your question.

23 DR. SHAPIRO: Eric?

24 DR. CASSELL: Well, in regard to the disclosing your
25 financial conflict of interest, for example. I mean many
26 times people have argued about informed consent. Well, the

1 subject cannot understand this. The subject, we all know,
2 goes away without remembering, da, da, da. All those
3 things have been said about it 15 years ago and which I am
4 sure are still true. But the subject brings one thing to
5 it that nobody else brings to it, their knowledge of their
6 own interest. The fact that you do not know what that
7 interest is, is irrelevant. Or what that person might do
8 is irrelevant. The question is not do you know, it is does
9 the subject know.

10 DR. ELLIS: I am not opposed to the conveying of the
11 information. I just posed the question. I think this is a
12 fertile area for research. We know very little about the
13 informed consent process as I said.

14 DR. CASSELL: Well, I mean, there were a number of
15 studies about 15 or 20 years ago and they all stopped dead
16 because of what they showed and so maybe the new crop will
17 show something entirely new about informed consent. It is
18 not as if nobody ever tried.

19 DR. SHAPIRO: Okay. Well, thank you all very much. I
20 regret that we do not have more time to pursue these
21 issues. We will have them in front of us at future
22 meetings. We will take careful note of the interest of the
23 commissioners and particular aspects of them.

24 Gary, thank you very much. We appreciate it very
25 much.

26 DISCUSSION OF CONFLICT OF INTEREST GUIDELINES

CHAIR, MEMBERS AND MS. RUSSELL-EINHORN

1
2 DR. SHAPIRO: We will return now to the conflict of
3 interest discussion.

4 Again, Ms. Russell-Einhorn, thank you very much for
5 coming back.

6 As I understand it, the purpose of this session is for
7 those commissioners who think it is helpful for the
8 commissioners themselves to discuss something about their
9 own particular sense of any conflicts they may have.
10 Normally conflicts of interest or conflicts of commitment,
11 I guess, is what Alex talked about earlier today, personal
12 experience and other biases that we all had. We all have
13 some subset of biases. If you think it is helpful to share
14 that with your fellow committee members this, I believe, is
15 the time to do so.

16 I will start off the discussion by being the first to
17 go on this round, but is there anything further you want to
18 tell us?

19 MS. RUSSELL-EINHORN: No. I think it is a great idea,
20 but just let me caution you all that the forms you fill
21 out, the financial disclosure forms, are confidential
22 financial disclosure forms. You need to be careful about
23 how much you disclose that is on there so that we do not
24 lose the confidentiality of those forms.

25 I just want to remind you, also, that --

26 DR. EMANUEL: It is our confidentiality, right?

1 MS. RUSSELL-EINHORN: Okay. I just want -- but I want
2 to make you -- but you need to be aware of that. That is
3 all. Okay. And I just want to also mention that we have
4 gone through the forms. We have identified what are
5 conflicts under the relevant regulations and laws. And
6 where we have found problems you have been given waivers or
7 advice that you need to be disqualified. So I just wanted
8 to add that.

9 DR. SHAPIRO: Well, I presume that anything that any
10 one of us wants to say here is no longer deemed
11 confidential by then. What we are -- what you are saying
12 is that what we may say here may open up those forms as
13 well. Is that what you are saying?

14 MS. RUSSELL-EINHORN: It is a possibility.

15 DR. SHAPIRO: Well, everyone can think about that in
16 their own way and decide what it is they would like to do,
17 but in any case let me begin the discussion. It need not
18 be overly long and, of course, it is totally voluntary as I
19 said in my note to you.

20 As I thought about my own situation I think there are
21 various issues that could come up in this area at least
22 along a number of different dimensions. Of course, as you
23 all know, I am president of a university which is a -- not
24 super major, but major performer of research, a good deal
25 of it going on with human subjects and so that obviously is
26 an interest of mine and I will have various commitments

1 that come up in that connection. We will just have to see
2 how that goes along depending on what we -- how we pursue.

3 I also have, I should tell you, two daughters whose
4 own research takes them into dealing with very large
5 subject populations. One of them is in general medicine
6 and the other is in psychology and social work, both of
7 whom, however, have gotten themselves involved in studying
8 very large samples of human subjects. So obviously that is
9 an interest I have in another dimension.

10 Finally, the only other thing I would like to mention
11 is I have been a long time director of the Dow Chemical
12 Corporation. They have all kinds of research projects
13 going on, none of which at the moment, I think, involve
14 anything related to human subjects. But nevertheless there
15 is all kinds of issues that come up in that respect and I
16 think it is just helpful to me if the fellow commissioners
17 know about that.

18 I think that is all I want to say and I will go around
19 this way. But again, please, if you prefer not to say
20 something now that is fine, too.

21 DR. EMANUEL: I think I have three potential issues
22 that I think the committee should know about. The first
23 and probably most important is that I have been retained by
24 the NIH here, Building 10, the Clinical Center, on a
25 professional services contract to do bioethics work for
26 them. Immediately upon hearing my appointment here I

1 notified our chairman who kicked it up to the general
2 counsel's office and they have ruled on it. But I think
3 everyone should know about that and that is an arrangement
4 which is ongoing.

5 Second, I am a researcher. I do a lot of research
6 with human subjects and in particular terminally ill
7 patients facing life-threatening illnesses. I do a lot of
8 interviews with them and participate in research in that
9 regard.

10 I think, third, I should let everyone know that my
11 wife is a vice-president of the AMA for ethics and also
12 does research. So I have that, I guess, interest as well.

13 No financial that I can think of.

14 MS. FLYNN: Similarly, I have no financial potential
15 conflicts. I think the most significant commitment I have
16 already addressed. I have a personal interest in these
17 issues because of a daughter with a serious mental illness.

18 As I think I also mentioned, more than one member of
19 my family has participated in various research trials. I
20 do not believe I mentioned that my organization supports a
21 research program in which I have some responsibility,
22 although it is not direct, in approving the research. But
23 we do have some ongoing involvement at about the rate of
24 \$10 to \$12 million dollars a year in research on
25 psychiatric disorders.

26 DR. SHAPIRO: Thank you. Steve?

1 **MR. HOLTZMAN:** I am an officer and a significant
2 shareholder in a biotechnology company that conducts
3 genetics and genomics research. We conduct a significant
4 amount of human genetics research inside and outside of the
5 United States involving the collection of DNA samples.
6 Under my direction we license and file patent applications
7 which include composition of matter frames, preparation of
8 genetic material and uses of the same. This bad enough
9 yet?

10 (Laughter.)

11 **MR. HOLTZMAN:** And I co-chair the Biotechnology
12 Industry Organization's Bioethics Committee.

13 **DR. SHAPIRO:** Thank you.

14 Bette?

15 **MS. KRAMER:** Nothing.

16 **DR. SHAPIRO:** All right. Thank you. Bernie?

17 **DR. LO:** I carry out research primarily on patients
18 towards the end-of-life, but also on physicians as well
19 just to give equal time to them.

20 In my other professional work I am on the Data Safety
21 Monitoring Board for the AIDS Clinical Trials Group and for
22 two for profit companies, GenenTech and Chiron, that
23 involves looking over interim analyses of clinical trials.

24 My parents gave me some shares of stock in Abbott
25 Laboratories, a tiny amount. I assume they are doing some
26 research somewhere on some people.

1 (Laughter.)

2 DR. SHAPIRO: Larry?

3 DR. MIKE: I am Director of Health for the State of
4 Hawaii so I doubt very much that there would be real
5 conflicts arising from any kind of the federal grants that
6 we get. While I am Director of Health I am refusing any
7 other kinds of outside resources.

8 I am more worried about my Playtex stock. Is that
9 going to brand me as somebody?

10 MS. RUSSELL-EINHORN: We waived it.

11 DR. MIKE: Okay.

12 DR. SHAPIRO: Thank you.

13 Tom?

14 DR. MURRAY: I do not own any stock except through
15 mutual funds connected to retirement. I do not do any
16 human subjects research. I research ideas and I guess
17 informed consent has never been an issue here. I am on the
18 Board of Directors of two professional associations, both
19 of them not for profit. The American Society for Law
20 Medicine and Ethics and I am on the Board of Directors.
21 The title of the other organization is Executive Committee
22 member and that is the Association for Practical and
23 Professional Ethics. As you know, these are the sorts of
24 boards with which it costs money to be on the board rather
25 than is remunerative. I guess I have received waivers for
26 those.

1 DR. SHAPIRO: Diane?

2 DR. SCOTT-JONES: I do not think I have anything at
3 all that is a financial conflict of interest. I do
4 research myself with children, teenagers and families. The
5 research currently now is funded by the MacArthur
6 Foundation, but I cannot imagine there is any real
7 conflict.

8 DR. SHAPIRO: Pat?

9 PROF. BACKLAR: I think that my outstanding conflict
10 is that I am an advocate for families and patients, but I
11 actually also do, do some research on human subjects.
12 Currently I am primary investigator for a small survey that
13 is going on about supported housing services and does it
14 address the needs of people with schizophrenia, their
15 families and their communities, and that was funded by
16 Portland State University in a faculty development program
17 grant.

18 I am the primary investigator of a pending research to
19 be funded -- it will be funded by NIH, which is a state
20 survey of families and mental health providers to determine
21 usage of Oregon's advanced declaration for mental health
22 treatment. I am a co-investigator on another study which
23 is pending at SAMHSA to examine the impact of managed care
24 on seriously ill Medicaid patients.

25 DR. SHAPIRO: Thank you.

26 Arturo?

1 DR. BRITO: I do not have any financial interest or
2 investments that would conflict. The research I am
3 currently involved in is NIH sponsored. I am a co-
4 investigator in an NIH sponsored asthma study. I am
5 involved in several current grant writing for research of
6 proposals that are from charitable contributions such as
7 March of Dimes and Robert Wood Johnson Foundation, et
8 cetera. So I do not think they will conflict and as they
9 come along we will address them.

10 DR. CASSELL: My retirement funds, I think, have
11 already been ruled on and, unfortunately for my future, I
12 have no control over them.

13 (Laughter.)

14 DR. CASSELL: And then, of course, there is the
15 inevitable conflicts that come from being of two minds
16 about a lot of things.

17 (Laughter.)

18 DR. SHAPIRO: Only two minds.

19 Alex?

20 PROF. CAPRON: Well, I have no financial conflicts,
21 although the waivers I got involved a lot of organizations
22 like the Hastings Center whose board I serve, which I guess
23 you deemed as a financial conflict. As Tom comments, that
24 is the kind of organization where you end up losing money.
25 My center and I personally conduct a certain amount of
26 human subjects research involving ethics issues.

1 DR. SHAPIRO: Thank you.

2 Alta?

3 PROF. CHARO: Like Alex and Tom, I do not have any
4 financial conflicts. I wish I had enough money to have
5 those kinds of problems. Consider donating and divesting
6 to me if you must.

7 (Laughter.)

8 PROF. CHARO: I serve on some boards like they do for
9 which waivers had to be obtained. The American Association
10 of Bioethics and the Alan Guttmacher institute. I think on
11 a more pragmatic level the -- and this may not be limited
12 to me, I do not know, I have served for many years off and
13 on at various levels having to do with the oversight of
14 research at the University of Wisconsin and on the All
15 Campus Committee that has to help respond each year to the
16 Multiple Insurance Agreement. I will assume unless
17 there is a problem that I will be rotated back onto our
18 local IRB.

19 There is one open investigation at our university for
20 which I am both a witness and part of the team that is
21 responding to OPRR inquiries following a scandal at another
22 university that peripherally dragged in a whole bunch of
23 universities around the country. So that I have also been
24 on the receiving of OPRR's enforcement action in the form
25 of trying to respond to it on behalf of an institution.

26 DR. SHAPIRO: Thank you.

1 Jim?

2 DR. CHILDRESS: I have no financial conflicts of
3 interest. I did receive a waiver as a fellow at the
4 Hastings Center. I have been a participant in a grant that
5 is running out from a study, the education of professionals
6 and the ELSI issues.

7 DR. SHAPIRO: Thank you.

8 Dave?

9 DR. COX: So I will put these in the order that I
10 think are the highest potential for conflict and let's do
11 the intellectual first. It is my interest in genetics
12 in case you have not guessed. I mean, I am involved in the
13 National Center for Human Genome Research up to my ears.

14 So the things that pertain particularly to this is
15 being a member of the ELSI Working Group, being a member of
16 the Genetics Testing Task Force. I am on the Council of
17 National Center for Human Genome Research and I think that
18 that could be -- might be perceived by some as a conflict.
19 So I just want to mention it now. But, you know, that was
20 not perceived in terms of having to get a waiver for it,
21 but that is the one I would like you to know about. I do
22 research that involves large scale human subjects and it is
23 multicenter research collecting patient samples for
24 hypertension. So that is a potential intellectual
25 conflict.

26 I also have a financial situation and that is I am a

1 director and founder of a biotechnology company called
2 Mercator Genetics, Inc. and although I do not -- there is
3 not a lot of money involved there, but in particular
4 because that is the company that recently discovered the
5 chromatinosis gene. We may be particularly talking about
6 that particular disease here if that comes up. So that is
7 one thing I would particularly like people to know about.
8 And then I have a small amount of Genzyme stock.

9 DR. SHAPIRO: Okay. Thank you very much. Do you have
10 anything you want to add, or say, or comment on?

11 MS. RUSSELL-EINHORN: No. Just let me add that do not
12 put it past these statutes -- the Criminal Conflict of
13 Interest Statute actually makes uncompensated service as a
14 board member a conflict of interest. So just because
15 something is not compensated does not necessarily mean that
16 it falls outside of the guidelines. And we have particular
17 trouble with that statute because it talks about being a
18 board member or a partner, or a trustee and it is your
19 status, not the fact that you are compensated or
20 uncompensated.

21 DR. SHAPIRO: Tom, I think that includes negative pay
22 as well.

23 (Laughter.)

24 MS. RUSSELL-EINHORN: That is right.

25 (Laughter.)

26 MS. RUSSELL-EINHORN: Anyway, I am always available

1 again if any specific situation comes up and someone wants
2 to discuss it.

3 DR. SHAPIRO: Thank you. Any comments or questions
4 from other members?

5 (No response.)

6

7

8

1 the middle of the country.

2 DR. SHAPIRO: We are going to give that very careful
3 consideration as we look over our financial situation now
4 that we have got that somewhat clarified. And we also, as
5 Rachel reminded me earlier today, we have been invited or
6 at least a number of universities have indicated they would
7 like to invite us to their locations and some of that --
8 that might be a very useful way to do it depending on what
9 the arrangements are and so on. So we will give this every
10 consideration.

11 I have also had a request from the delegation from the
12 West Coast, I guess I could call it, if we could start our
13 meetings much earlier in the morning. In particular, start
14 them 7:00-7:30 because that enables people like David, who
15 do not seem -- and Bernie to fly in, arrive here at 5:00
16 and come to a meeting at 7:00, and then go back that night,
17 which is a very economical use of their time. I hope they
18 sleep on the planes well. But in any case that is
19 something we are also going to consider.

20 I know for those of us on the East Coast at least
21 broadly speaking 7:00 might mean coming the night before
22 rather than that morning because we cannot get down, I
23 guess, from Boston and come to a meeting at 8:00 o'clock or
24 7:30. But we will take a look at all of those issues and
25 try to arrange something that both is reasonably equitable
26 for members of the committee and meet some more

1 programmatic objectives such as meeting at different places
2 and giving people in different parts of the country a
3 chance to speak to the commission rather than simply always
4 doing it here in Washington. So we will do that very
5 quickly.

6 Secondly, we will in the next week-and-a-half to two
7 weeks identify some working groups and proposed topics. We
8 will consult with members of the commission probably
9 largely through e-mail regarding some proposals in this
10 regard. As soon as we settle down we will ask each of you
11 to join on one or the other of these working groups because
12 I hope our time at our next meeting that we will be able to
13 hear back from these working groups some of the substantive
14 issues. There are a lot of issues that have come up today
15 for us to address. We obviously cannot do them all in the
16 next six or eight months, but I think there have been some
17 interesting possibilities.

18 I think that we can converge on at least a small
19 subset which we all might agree or at least most of us
20 would agree would be a useful number of first steps. So we
21 do not have time to discuss that further, but you will hear
22 very shortly from myself and the staff on some proposals.
23 What I would ask from you is that you respond as quickly as
24 possible because we really will need your input. Given the
25 technology question response that is available these days
26 we can really do this in a joint way even though we are not

1 meeting face-to-face.

2 We will very shortly, quite aside from our web site,
3 will have some kind of capacity so that we can communicate
4 easily with each other and I hope everybody's touch typing
5 is up to par so that you can use these kinds of facilities
6 easily. So you will hear quickly from us.

7 Are there any questions along those lines? Yes, Alta?

8 PROF. CHARO: Could you update us on the status of
9 staffing and plans now that we have had a chance to find
10 out about the money? I do not know if you have had a
11 chance to think about --

12 DR. SHAPIRO: Well, no --

13 PROF. CHARO: -- what you could do with the money.

14 (Simultaneous discussion and laughter.)

15 DR. SHAPIRO: So the answer is no. It is not a good
16 time to respond. However, as I have told other members of
17 the commission today that is an issue which we had put on
18 the back burner in part in order to see what our situation
19 really was before making those kinds of plans.

20 I feel very fortunate with the staff we already have
21 who have been working very hard and very effectively with
22 us and hopefully will continue to work with us. But now
23 that we do have this clarified over the next weeks we will
24 lay some more definite plans. I appreciate the
25 suggestions I have gotten in that regard from those members
26 of the commission who wrote me on that particular subject.

1 Yes, I am sorry.

2 MS. KRAMER: Are these firm dates on the future
3 meetings?

4 DR. SHAPIRO: Well, yes. They are firm dates. That
5 is it is very hard to find dates for all people. We passed
6 that out to everyone today. There should be a -- we will
7 perhaps look at that once again, but we know we cannot find
8 dates which everybody can come to. We know that from
9 surveying. We have tried to make a fair distribution of
10 that. That is we do not have -- we were not trying to
11 satisfy some members and not others. We were just trying
12 to do something that seemed reasonable in terms of what was
13 available.

14 It is -- I can say something right now is apparent,
15 there is not a date in which all members are going to be
16 able to come. I was astonished that everyone came today
17 because when we set this date it appeared that it was
18 really not possible for many of the members.

19 Have people found that sheet of paper? That is
20 available obviously from the staff. As soon as we get our
21 web page up, of course, they will be available there for
22 everyone who wants them.

23 Other questions?

24 Yes, I am sorry.

25 MS. FLYNN: I have a question that may be better
26 answered by the staff. I know that we are wanting to have

1 a process that engages and involves a variety of people who
2 may be considering these issues but were not able to sit at
3 this table or sit in the rooms we will meet in. Is it your
4 preference that those who would ask of us how do I share my
5 views communicate directly in writing to the Office of the
6 Commission or communicate to whomever they may know who are
7 members of the commission? What would be the most
8 efficient way to have that -- a dialogue that may be
9 largely through e-mail or postal service?

10 DR. SHAPIRO: Thank you very much. I think the most
11 effective way is to write directly to the staff who can
12 respond most expeditiously to people's concerns. I am sure
13 each of our subcommittees is going to have some set of
14 meetings in which interested parties will be able to
15 address issues of concern to them and as soon as we have
16 established these subcommittees that will be, of course,
17 public and widely known so people with specific interests
18 can know who it is they might want to speak to.

19 MS. FLYNN: Thank you.

20 DR. SHAPIRO: Other questions?

21 DR. SCOTT-JONES: I have a quick question --

22 DR. SHAPIRO: Yes, I am sorry.

23 DR. SCOTT-JONES: -- about the meeting dates. Should
24 we allow two full days then, the night before, or will we
25 have to wait to find out?

26 DR. SHAPIRO: We are trying to get people to hold that

1 much time. We have not got the detailed schedule yet and
2 until we make a little more progress we do not know how
3 much business that we can productively do. So it is hard
4 to answer that fully at the moment. We are hoping most
5 people will try to keep those dates open. We may not use
6 it fully. But I know if we do not start reserving dates it
7 is impossible later to expand on them.

8 Other questions?

9 All right.

10 PUBLIC COMMENT

11 DR. SHAPIRO: There are a number of people who have
12 written and wanted to talk to the commission. Let me tell
13 you what the ground rules are. We have a half hour for
14 this. We have approximately -- we have not approximately,
15 I think we have six people signed up. That means between
16 four and five minutes for each person. I hope they will
17 not consider it impolite, at the time it reaches four
18 minutes I am going to tell them they have to start winding
19 up just in deference to others who want to also be heard by
20 the commission.

21 Needless to say we are glad to receive written
22 documents of any length from people who would like to
23 address the commission in our ongoing proceedings.

24 So let me see, is Gwendon Plair here?

25 DR. PLAIR: Yes.

26 DR. SHAPIRO: Perhaps -- is that convenient for you to

1 sit? Either end would be fine.

2 MR. PLAIR: Thank you very much for this opportunity
3 to speak here today. As I said before, because of the
4 length of time I gave Ms. Norris a copy of my statement and
5 what have you. But when I talked to you, Dr. Shapiro, you
6 said it was a small group so I was looking for a real small
7 group, so I made 10 copies, so she said she would make you
8 some copies.

9 DR. SHAPIRO: We will produce copies for all of the
10 members.

11 MR. PLAIR: Okay. I would like to spend my short time
12 briefly giving you, hopefully, the highlights of what I
13 would like to say to you specifically in two parts. One is
14 speaking on behalf of the Task Force of which I am an
15 executive member, the Radiation -- the Task Force on
16 Radiation and Human Rights, here in Washington, D.C. It
17 has members around the country, 34 member groups, and also
18 as a son of a radiation experiment victim in Cincinnati,
19 Ohio. I am speaking for those people.

20 Let me first say good afternoon to you, to Mr.
21 Chairman, and also to the members here, and visitors.

22 My name is Gwendon Plair. I am the son of Ms.
23 Beatrice Plair, Experiment Victim Number 044 at Cincinnati
24 General hospital, which is now known as the University of
25 Cincinnati.

26 Mr. Chairman, I would like to thank the NBAC Committee

1 for giving me this opportunity to speak on behalf of
2 radiation victims and survivors of Cincinnati General
3 hospital, the factory workers at nuclear plants, and the
4 victims of radiation experiments around the country. I
5 also wish to extend our thanks to Senator Glenn, who is not
6 here, but we feel -- we thank him for his efforts, and also
7 to the chairman of the NBAC, Dr. Shapiro, for his ongoing
8 support on these issues. We met with him early and we
9 really thank you for that opportunity.

10 I would just say that the statements that I have
11 entailed in my presentation give an overview and background
12 on how I came to be involved in this matter. The evolution
13 of CRCSPCO, which is Concerned Relatives of Cancer Study
14 Patients in Cincinnati, Ohio, of which I founded and
15 developed as a grassroots organization supporting radiation
16 victims around the country, also recommendations to the
17 NBAC committee and also a closing statement.

18 First of all, I would like to just address very
19 briefly remarks from the Task Force on Radiation and Human
20 Rights. It is very important as you look at the relevance
21 of radiation experiments to NBAC -- two, I will just
22 approach -- there are three highlight areas. One is
23 notification. There is a great need for the right to know
24 before and after the fact if you are involved in radiation
25 experiments.

26 As in my mother's case and other victims, we were not

1 aware that we were involved in radiation experiments before
2 and after the fact. The other part that was mentioned in
3 the advisory report is that of "no harm done." And
4 definitely there was serious harm done. Death is harm
5 done. Or the shortening of one's life is harm done.

6 Looking at remedies that we looked at, we look in
7 terms of -- we focus you towards the bill, House Bill 3946,
8 that also looks at government leaving the past issues
9 unresolved, that is important that the families and victims
10 around the country and plants, and even including our small
11 children are looking towards this committee to review
12 research and give input for resolution to this issue never
13 happening again, to assure against more experiments'
14 victims in the future.

15 The Advisory Committee on Radiation -- Human Radiation
16 Experiments did not really get into prevention. You might
17 look very closely at Katz, Dr. Jay Katz, who is on the
18 President's Cancer Advisory Committee on Radiation and
19 Human Rights, who gave an opposing view on human research
20 and look at his views on that. I think that kind of points
21 out exactly what we are talking about here.

22 We do not want to spend a lot of time talking about
23 being not involved in this process in the past. Our
24 understanding is that this group here of esteemed
25 individuals has an opportunity to set precedence. As I
26 told Dr. Shapiro in our brief meeting a short time ago it

1 is imperative that the victim survivors around this country
2 be participatory not only in this opportunity speaking in
3 the public in hearings such as this here, but it is very
4 important that we be on the inside of this situation in
5 your meetings, to have the public input.

6 Certainly if you look at the various comments made at
7 the national conventions being an election year, inclusion
8 is a very important part of what the public is asking at
9 this point. We are asking you that we be included inside
10 the doors at these meetings and we review suggestions and
11 recommendations. We said this -- the same thing to the
12 advisory committee and it did not happen. We are saying it
13 to you again. We need to be on the inside of the doors in
14 this process.

15 My colleague, Mr. Acie Byrd, will talk more about the
16 national security issue as related to experiments a little
17 bit further.

18 I would like to --

19 DR. SHAPIRO: Will you try to bring your remarks to a
20 close? We are running out of time and there are a lot of
21 other people who want to speak.

22 MR. PLAIR: Okay. All right. Okay.

23 I would like to close my remarks by saying this here,
24 that there are several esteemed persons that I would like
25 to cite here.

26 "The constitution is an important parchment that

1 protects all of us. It says, 'For the people and by the
2 people.' Barbara Jordan told this to her colleagues on
3 Capitol Hill. "All the people are important regardless to
4 whom they are and where they came from.

5 Hillary Clinton said this at the Democratic Convention
6 in Chicago: "We must do everything we can to make sure
7 this never happens again."

8 President Clinton upon receiving the October 3rd
9 release of the Advisory Committee's Final Report on Human
10 Rights made the statement, "We must as a nation include all
11 people in making this country great and problem solving
12 rather than excluding some of our people in the process."

13 General Colin Powell at the Republican National
14 Convention made the statement that basically says what we
15 want to say, "We want to be inclusion, not exclusion in
16 this process," ladies and gentlemen, if you really want to
17 make an outstanding move forward in what happens next.

18 Thank you very much.

19 DR. SHAPIRO: Thank you.

20 Is Mr. Cossman here?

21 Mr. Cossman is from the College of American
22 Pathologists. Welcome to our meeting.

23 DR. COSSMAN: Thank you. Thank you very much. Mr.
24 Chairman, I am Jeffrey Cossman, M.D., Chairman of the
25 Department of Pathology, Georgetown University Medical
26 Center.

1 Today I have been asked to represent the College of
2 American Pathologists, a medical specialty society
3 representing more than 15,000 board certified physicians
4 who oversee most of the patient laboratory testing that is
5 performed in the United States. The College of American
6 Pathologists accredits more than 2,000 clinical
7 laboratories in America and is authorized to do that by the
8 Federal Government.

9 We commend the commission for its attention to the
10 bioethical issues that have arisen from medical research
11 and genetic testing. My comments today will focus on just
12 two areas specifically involving protection of patient
13 rights with respect to laboratory information, particularly
14 with regard to patient care and, second, research.

15 The College of American Pathologists supports the
16 efforts to assure the privacy of medical information and
17 the protection of both the public and the individual
18 patient. The principle of confidentiality is a cornerstone
19 of the patient-physician relationship and it is important
20 to recognize for those of you who are not involved in
21 patient care that information generated within the
22 departments of pathology is often the most sensitive and
23 personal in the patient record. Accordingly, pathologists
24 have long held the tradition of developing and implementing
25 procedures to guard the release of clinical laboratory
26 information.

1 And why we bring this up at bioethics hearing, that is
2 because retaining diagnostic specimens is essential for
3 patient care and research. However, several proposed
4 regulations have put this at risk. All tissues removed
5 from patients undergoing diagnostic or therapeutic medical
6 procedures are examined and interpreted by pathologists.
7 However, only a portion of the tissue is usually needed for
8 diagnosis. The rest is stored while maintaining
9 confidentiality. This is the key issue. The pathologist
10 is responsible for ensuring that the stored tissue is
11 available for future diagnostic tests for future patient
12 needs.

13 However, some recent proposals intending to protect
14 patient privacy dictate that tissue cannot be stored with a
15 patient identifier. It either must be discarded or
16 anonymized. Under these restrictive conditions it would
17 not be possible for the pathologist to determine whether a
18 patient has come back to the patient with a second new
19 cancer after having been treated for another or has an old
20 cancer which has broken through previous therapy. Also,
21 you would not be able to have your slides reviewed by a
22 second expert consultant.

23 With regard to genetic testing, which is where these
24 regulations arose from, pathologists are concerned that
25 restrictions related specifically to genetic information
26 are not applied so broadly that they encumber all of

1 medical care. Indeed, in the hope of protecting privacy
2 for genetic testing, the public debate has grown to
3 encompass far more than just genetics. We are now
4 faced with constraints in all tests to the extreme that
5 they could go even so far to disable the microscopic review
6 of stored histologic slides as I just mentioned.

7 A detailed complex system for obtaining informed
8 consent for each tissue sample for every prospective
9 research protocol which has been proposed would be
10 impossible to administer. These onerous regulations would
11 create an overwhelming obstacle for medical research for
12 patient care as we know it and would be a disservice to the
13 benefit of the patient.

14 The development of new tests evolves continuously.
15 For this reason the College of American Pathologists
16 together with a consortium of 17 pathology societies have
17 issued a signed document that supports the policy of
18 existing standards for the protection of rights, including
19 privacy, that can be extended to genetic testing. You have
20 a copy of that which has been given to you at lunch time.

21 I will finish in the next twenty seconds.

22 DR. SHAPIRO: Thank you.

23 DR. COSSMAN: It is our opinion that federal
24 regulatory agencies working together with professional
25 societies can broaden the existing regulatory mechanisms
26 which work and that these can now be used to encompass

1 genetic tests.

2 The community of research scientists, physicians and
3 professional organizations will work with the regulatory
4 agencies as they have in the past to develop the necessary
5 guidelines to ensure the safety and privacy of the American
6 public.

7 Thank you.

8 DR. SHAPIRO: Thank you for your remarks and thank you
9 for providing us with a written version of your remarks.
10 Thank you very much for being here today.

11 Mr. Charles McKay?

12 MR. MCKAY: I have some materials for commissioners.

13 DR. SHAPIRO: Thank you.

14 MR. MCKAY: At the suggestion of Dr. Gary Ellis I
15 agreed to come and make a brief presentation to you today
16 about a study that is about to go into the field sponsored
17 by NIH. It is a study of the IRB system nationally that
18 has been several years in planning.

19 I thought of developing slides for it but since I have
20 been a bureaucrat so long I thought a thousand words would
21 do better than a picture to describe it.

22 (Laughter.)

23 MR. MCKAY: The materials will illustrate to you the
24 scope of the study. We will do a census of all the
25 extramural IRBs, nonfederal IRBs, in the country and that
26 will cover some 445 institutions. Subsequent to that a

1 subset of the chairs and then a smaller subset of members,
2 and then of investigators at each of these institutions
3 will also be surveyed. We will also have some on site
4 document extraction.

5 The method of the study will be to look at the IRB
6 system as a system. The input, the throughput or output,
7 the outcome and some of the questions of process. The
8 materials I have for you have a detailed crosswalk table in
9 matrix form that show you some of the 200 items we hope to
10 identify in studying and translating the responses from the
11 questionnaire and the document extraction to do
12 confirmation and evidence of just what IRBs are effectively
13 doing in their review of human subjects protocols.

14 I think it is important for you to understand
15 something of the timing of this study so that you can make
16 some plans with respect to your agenda. We anticipate the
17 study will be completed and the results in, in spring of
18 1997. It may then be useful to discuss with you some
19 preliminary findings before then, but we would hope to make
20 available to you the results of the study at that time so
21 that you could see what light they would shed on your own
22 deliberations about any enhancement, or changes, or
23 modifications in the IRB system.

24 We have been delayed in getting this study off the
25 ground, but I think it is serendipitous because the hope I
26 once had of somehow from within NIH erecting some sort of

1 august body is this, to be able to deliberate and make
2 recommendations with some clout. Obviously we can get so
3 far from where I was perched in the bureaucracy. You will
4 have that opportunity and I hope you will find the findings
5 useful.

6 One of the other documents I have taken the liberty to
7 distribute to you is a brief study of the evolution of IRBs
8 from the early stage of their endorsement by a lot of
9 bodies through their actual being enfranchised in the
10 Public Health Service Policy of 1966 and regulations of '74
11 to what is I have termed their empowerment through the
12 latest version of the regulations that have been published
13 and continued in the federal common policy.

14 The one thing I find absent in there that I would ask
15 you to consider is I think it is imperative to make a
16 translation not only of consent documents in understandable
17 language, but I think the regulations themselves should be
18 translated into layperson's language, made available to
19 them so that they can understand what it is that is being
20 asked of them, the mechanism, the protections. In other
21 words, kind of a subject's bill of rights.

22 Some states have anticipated that. California for one
23 has a bill of rights which is required to be distributed to
24 any research subject under their jurisdiction. You may not
25 be able to change the laws Professor Capron has indicated,
26 but certainly you could endorse making this available as

1 part of OPRR's very widespread and important educational
2 effort.

3 I thank you for your time. I will continue to be
4 available to the staff should you have any further
5 questions. Thank you.

6 DR. SHAPIRO: Thank you and thank you very much for
7 bringing the materials with you. I will certainly
8 distribute that to the members of the commission.

9 DR. SHAPIRO: Yes. Can someone just pass those along,
10 sort of take one and pass it on kind of procedure here?

11 Now let me call on Suzanne Thomlinson.

12 MS. THOMLINSON: Right here.

13 DR. SHAPIRO: Oh, there you are. I am sorry. From
14 the Biotechnology Industry Organization.

15 MS. THOMLINSON: Thank you very much, Dr. Shapiro.

16 I am here today on behalf of the Biotechnology
17 Industry Organization, what we call BIO for short. I would
18 like to offer the services of our organization as the
19 commission's work proceeds. I would also like to share
20 with you some of my personal experiences as a patient with
21 cystic fibrosis taking a biotechnology drug and
22 participating in clinical research.

23 First of all, BIO represents 680 biotechnology
24 companies, academic institutions, state biotechnology
25 centers, and related organizations around the U.S. and in
26 20 nations.

1 BIO companies are leaders in identifying the genes
2 that cause disease and developing diagnostics and
3 therapeutics for these conditions.

4 Today over 85 million people have been helped by
5 biotech drugs, products and vaccines. Forty-two biotech
6 drugs, products and vaccines have been approved in the
7 United States. Biotech drugs help people who were
8 suffering from once fatal heart attacks, kidney cancer and
9 leukemia. And biotech diagnostic tests now keep the blood
10 supply safe from AIDS. Other tests identify many diseases
11 early enough for people to obtain more effective treatment.
12 There are many more biotech drugs, vaccines and diagnostic
13 tests in the pipeline.

14 Before discussing some of our specific concerns I
15 would like to share with you my experience in living with
16 cystic fibrosis. I was diagnosed with the disease in 1964.
17 At the time little was known about the disease and how to
18 save a child's life. My parents were told that I might not
19 live long enough to attend kindergarten. But thanks to
20 medical advances in the last 30 years I have lived a very
21 full life and achieved many goals, including obtaining a
22 law degree.

23 I am now taking a biotech drug called Pulmozyme. It
24 enables me to clear the mucus from my lungs more easily and
25 to avoid hospitalizations for treatment of potential fatal
26 lung infections. I started taking Pulmozyme in a clinical

1 trial in the spring of '92 when I was attending law school
2 and working. Immediately upon taking the first dose of the
3 drug I found I could breathe much easier. Because I
4 coughed less frequently I had more energy for my
5 schoolwork. In essence, it gave me a new lease on life.
6 With Pulmozyme I was able to finish graduate school and to
7 plan for a much greater future.

8 I have long been committed to medical research and I
9 have personally benefited from it obviously. I have been a
10 patient actually at the NIH for 15 years and I have
11 participated in a variety of clinical research studies. I
12 recently participated in a study up at Hopkins last April.

13 I have sought employment with the biotech industry
14 because I believe in the promise of research. I believe
15 the biotech industry is the cornerstone for today's
16 research for tomorrow's cures. My life was lengthened by
17 medical technology in the '60s and by biotechnology in the
18 1990's. I want to help others who are not as fortunate by
19 encouraging the development of this technology to treat and
20 cure cystic fibrosis and other diseases.

21 We believe the biotech industry plays a critical role
22 in the debate on bioethics. We are committed to speed the
23 development of new therapies and cures. We are well aware
24 of the need for public education to address some of the
25 suspicion and distrust of science and scientists. We have
26 conducted focus groups around the country to gain insight

1 into people's thoughts on this technology and its potential
2 uses.

3 As a bioethics counselor for BIO I work closely with
4 the co-chairs of our Bioethics Committee, Elliot Novac of
5 Genzyme Genetics and Steve Holtzman of Millennium
6 Pharmaceuticals. We are pleased that Steve serves on this
7 commission. We believe his sensitivity and practical
8 knowledge of bioethics issues will contribute greatly to
9 the work of this commission.

10 Our Bioethics Committee is fashioning guidelines
11 concerning the ethical implications of our work. We have
12 three task forces actively working in the areas of gene
13 patenting, genetic information and responsibilities of
14 biotechnology.

15 We are pleased to note that our Board of Directors
16 recently adopted a statement on the need for medical
17 privacy. Our statement calls for strong protections
18 against the misuse of all personal medical information,
19 including data derived from genetic diagnostic tests. We
20 agree with Dr. Collins on the need to address the privacy
21 of all medical information because genetics is a part of
22 the statute of medical information.

23 We plan to work with the next Congress on a
24 comprehensive medical privacy bill to include genetic
25 privacy as a subset of that. We also believe that there
26 needs to be standards to protect confidentiality of medical

1 information that should ensure that legitimate and vital
2 medical research will continue and is facilitated.

3 We supported the provisions in the Health Insurance
4 Act that was recently passed to protect against misuse of
5 genetic information for insurance.

6 We are concerned about the issue of gene patenting.
7 We believe this is an economic issue and not a bioethics
8 issue.

9 We support the continuation of the current law to
10 allow patenting of human genes if the applicant meets the
11 necessary criteria for securing patents. We do not believe
12 exceptions should be made for patents on genes, life forms
13 or other subject matter.

14 We are committed to our work in bioethics and we want
15 to set exemplary standards while ensuring our nation's
16 biomedical research continues and we look forward to
17 working with the commission as we delve into these issues.

18 Thank you very much.

19 DR. SHAPIRO: Thank you very much. Thank you very
20 much for being with us today. We appreciate it very much.

21 Let me now call on Lisa Angerame if I have pronounced
22 her name correctly. If I mispronounced it, I apologize.

23 Is Lisa here?

24 Okay. I assume the answer to that is no.

25 Mr. Byrd? Mr. Byrd?

26 Incidentally, the beeps that the speakers hear are not

1 someone's pager going off, but that means time is up.

2 MR. BYRD: Thank you very much for inviting us here
3 and I appreciate this opportunity for the Atomic Veterans
4 to have a chance to speak to you today.

5 I have some copies here if I can pass them around.

6 DR. SHAPIRO: Sure, absolutely. We will pass them
7 around for you.

8 MR. BYRD: Okay.

9 DR. SHAPIRO: Do you want to just pass them up this
10 side? Thank you very much. People just take a copy and
11 pass it around.

12 MR. BYRD: The final report of the President's
13 Advisory Committee on Human Radiation Experiments provides
14 dramatic insight into the lengths to which the Federal
15 Government went during the Cold War era to justify its use
16 of innocent unsuspecting citizens in the name of "national
17 security." Nowhere during these years was the conflict
18 between national security and the right of individuals more
19 prevalent than in the conduct of the nuclear weapons
20 testing program, particularly in the military treatment of
21 its soldiers, the "Atomic Veterans."

22 Obviously there are a number of issues that emanating
23 from the Advisory Committee's investigation of the
24 radiation experiments that deserves NBAC's attention. We
25 submit to this commission the most profound among them and
26 the ones which will ultimately determine the commission's

1 relevance to the charge that has been handed to you by
2 President Clinton, is that of the right of the individual,
3 particularly those in the military, versus the perceived
4 needs of national security in the area of experimentation
5 and human research.

6 Let there be no doubt about it, that is not a
7 historical issue, but one with which the present
8 administration wrestles even as we meet here today. The
9 best example of this point we made was aired just this last
10 Sunday on the CBS show, 60 Minutes. The subjection of the
11 Gulf War military personnel to experimental vaccines and
12 drugs without their informed consent.

13 Now as mentioned in the conclusion to that show and as
14 evidenced by the attached article which appeared in the
15 Detroit Free Press earlier this year, the Food and Drug
16 Administration is now under pressure from the Pentagon to
17 make permanent an FDA interim ruling that allow the
18 military to use biological and chemical investigation
19 products on troops without their knowledge or informed
20 consent.

21 The justification is the very same that was used to
22 justify injecting plutonium into the veins of unsuspecting
23 patients at Rochester, New York, during the Manhattan
24 Project years, and to justify subjecting testicles of
25 prisoners at Oregon State Prisoner to radiation during the
26 '60s, and to justify subjecting Black patients in

1 Cincinnati to whole body radiation in the early 1970's, and
2 to justify exposing those who fought in the Gulf War in the
3 '80s to experimental products. All with the need of
4 national security.

5 Those of us who were at the front lines of democracy
6 during the Cold War years submit to you that Atomic
7 Veterans are not a historical curiosity, but a living
8 testament to the challenges that now confront you, the
9 National Commission. And I think that is one of the main
10 issues we would like to have this body examine very closely
11 since you have just -- it has just been revealed and now
12 the numbers of Gulf War veterans has been extended from 15
13 to possibly 100,000.

14 I think this is the characteristics of what --
15 characterizes I should say of what has taken place
16 historically with veterans and we think that there is a
17 definite need to be more precise on setting some guidelines
18 and standards that respects the constitutional guarantees
19 of citizens, as well as the human rights guarantees that
20 are available to all citizens with regard to this.

21 DR. SHAPIRO: Thank you very much. Thank you for your
22 remarks and thank you very much for bringing copies of your
23 testimony which has now been passed around to all members.

24 MR. BYRD: Thank you.

25 DR. SHAPIRO: Thank you.

26 Mr. Robert McMurrrough?

1 MR. McMURROUGH: Thank you. Good afternoon. Thank
2 you, Mr. Chairman, for the opportunity to talk today. This
3 is on the subject and in support of the Executive Order
4 12975.

5 My name is Robert McMurrough and I am currently the
6 Committee Chairman for CDC HIV/AIDS Prevention and
7 Community Planning; and HRSA Title 124, Patient Care for
8 the State of Florida, Office of Disease Intervention, a
9 statewide group. I am a member of the FDA AIDS Health Task
10 Force specializing in harmful treatments and therapies that
11 are geared towards people living with AIDS and educating
12 the HIV/AIDS community on fraud.

13 The ultimate priority in my life at this time is
14 living with HIV/AIDS. I have been a clinical AIDS drug
15 trial patient here -- subject at NIH since 1992 at NIAID
16 taking the chance to further research. In the last past
17 year I have participated in a private trial by Merck
18 Corporation receiving the protease inhibitor Tryptophan
19 Inhibitor Sulfate. My participation proved to be a
20 tremendous turnaround in my life and I continue today.

21 This was through a national IRB and my doctor had to
22 do this all on her own to get me to participated in this
23 with Merck's supervision.

24 Currently I am on a treatment IND for the
25 mammalian recombinant growth hormone, Serostem (?), which
26 was released by the FDA for wasting syndrome, which causes

1 26 percent of all deaths of people who live with HIV.

2 In all cases I have signed informed consent and I am
3 educated and I know my choices of risk when I participate.
4 This is not always the same for others.

5 My concerns are that with the wave of the new drugs
6 and the quick approval that we seem to be having. I
7 applaud the efforts of this Executive Order and that the
8 Bioethics Commission will place the highest priority on the
9 rights and welfare of human research subjects, as myself.
10 And the current situation allows any person to participate
11 if they are qualified but that does not always mean that
12 they have PAR, which is "parody, inclusiveness and
13 representation," in knowing what they are getting into.

14 I urge the commission to promote education on choices
15 and empowerment to the subjects, to continue to work with
16 researchers in response to any risk that might be incurred.
17 Researchers doing it outside our system or guidance is
18 detrimental and destroys credibility.

19 Your new commission can take leadership, because of
20 its expertise that it has at this table, and strive towards
21 a level of safety to all of us that participate and deserve
22 confidentiality, choice, education of subjects and research
23 is ensured. Our research is the best in the world here at
24 NIH and around and our subjects are our greatest assets.

25 Congratulations on your new commission, its diversity
26 of its staff. My life and lives of others alike will look

1 to you for our protection to be evaluated and ensured
2 giving us long-term survivorship with HIV/AIDS along with
3 medical research superiority, along with that with our
4 working with other countries to make this international
5 disease pandemic come to an end.

6 I offer my own support and consultancy to this
7 commission at any time free of charge with no conflict of
8 interest to ensure that there is always a person who is
9 living with this disease, which of course NIAID spends a
10 great deal of money on research on for that.

11 So as a person living with HIV I commend the President
12 of the United States for putting this commission together.
13 Thank you.

14 DR. SHAPIRO: Thank you. Thank you very much for your
15 comments.

16 Unless there is further business to come before us
17 today, I am about to adjourn this meeting.

18 We are adjourned. Thank you very much.

19 (Whereupon, the proceedings were adjourned at 4:37
20 p. m.)

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