

1 DOCTOR SHAFFER: Thank you.

2 Chair James and members of the Commission,
3 thank you for the invitation to be here today, as you
4 examine this very important and complex matter.

5 I'd like to dedicate my testimony today to
6 the memory of my special friend and colleague, Tom
7 Cummings, who passed away suddenly last week. Tom
8 dedicated his life to the compassionate care and
9 understanding for gamblers who are struggling against
10 their impulses.

11 Humans have gambled at least since the
12 beginning of recorded history, and now that Americans
13 are gambling as much as at any time in the 20th
14 Century we are faced with considering how we will
15 gamble, and whether the consequences of gambling are
16 socially acceptable.

17 Science, I believe, can make a meaningful
18 contribution to this deliberation. Ultimately, an
19 inquiry of gambling in America is both an economic and
20 social cost benefit analysis. Scientists can provide
21 considerable information about the factors that
22 influence gambling choices, and what happens to people

1 who do gamble.

2 However, science cannot determine the
3 social value of this information. The rightfulness,
4 the wrongfulness of gambling, ultimately, is a
5 judgment that rests deep within the tapestry of values
6 and traditions that embrace our American heritage.

7 I think that behaviors are complex and
8 difficult to understand. Attempts to understand
9 compulsive and pathological gambling resembles someone
10 trying to shoot a fish in a clear, calm pool of water
11 with only a bow and arrow. While it's easy to see the
12 fish and take direct aim, refraction makes the task
13 almost impossible.

14 Observers, for example, tend to view
15 disordered gambling through their own lenses that
16 refract their capacity to understand the problem.
17 People struggling with addiction tend to experience
18 this disorder as a restricted set of choices, and
19 often fail to recognize exactly how their pattern of
20 behavior is self-destructive for them.

21 Ultimately, addictive behaviors represent
22 an intellectual, emotional and neurobiological co-

1 opting of both the mind and the brain. People with
2 addiction experience important shifts in their
3 cognitive, emotional and biological systems. They
4 lose control over important aspects of their behavior
5 and experience a desire for the object of their
6 addiction, and this desire can range from a mild to an
7 intense craving.

8 Finally, they often continue their
9 excessive behavior pattern, in spite of its adverse
10 consequences for them and the result, as you heard
11 last night, is often despair, depression and even
12 worse.

13 Disordered gambling can develop into an
14 addictive disorder as virulent and self-destructive as
15 any of the other better known chemical dependencies.
16 Just as alcoholism is multi-dimensional, there's no
17 single clinical pattern which we can call pathological
18 gambling. Gambling disorders are truly multi-faceted
19 problems, perhaps, best understood as a syndrome or
20 cluster of phenomena.

21 In Asia Minor, the ancient Lyddians gambled
22 to distract themselves from hunger during periods of

1 famine. Similarly, gambling can serve as an anodyne
2 for depression and other types of emotional suffering.
3 It also can provide relatively safe recreation and
4 entertainment. Whether gambling offers a safe or
5 destructive haven is a function of the expectations of
6 the gambler, the setting within which they gamble, and
7 interactive characteristics of the games they play.

8 When gambling serves only as an amusing
9 activity, providing no meaningful relief from
10 emotional suffering or financial problems, the rate of
11 gambling disorders is likely to be very low. However,
12 when people use gambling to buttress emotional
13 vulnerability, or pursue gambling as a vehicle to
14 achieve financial gain, the risk of disordered
15 gambling increases.

16 Recently, my colleagues and I completed a
17 study which includes the most comprehensive analysis
18 of the gambling prevalence research literature in the
19 United States and Canada. This work revealed
20 considerable conceptual confusion and inconsistency
21 about the terminology that scientists have used to
22 describe intemperate gambling, and Doctor Volberg

1 commented on that before. As a result, we adopted
2 some different language to classify intemperate or
3 disordered gambling, and that classification system
4 was ultimately a public health system, referring to
5 level one, prevalence rates that reflect people who do
6 not have any gambling problems at all, level two
7 represents those individuals who failed to satisfy the
8 multiple criteria for a clinical disorder, but do
9 experience some of the adverse symptoms that can be
10 associated with gambling, and level three reflects
11 those people who meet sufficient criteria for having
12 a disorder.

13 These diagnostic criteria, for example, can
14 include, among other things, being preoccupied with
15 gambling, risking more money to get the same desired
16 -- or a desired level of excitement that they had
17 previously experienced, committing illegal acts,
18 relying on others to relieve desperate financial
19 needs, and there are others.

20 People with level two problems, those
21 people who do not meet diagnostic criteria, can move
22 in either of two directions. They can move toward a

1 more healthy state, level one state, or they can move
2 toward more serious level three states.

3 Psychiatric disorders in general, and
4 disordered gambling in particular, are subject to
5 shifting cultural values. Shifts in prevalence rates
6 can reflect shifts in behavior patterns, or evolving
7 cultural values, or a combination of both.

8 I provided you with two tables. Table I
9 reflects lifetime estimates of disordered gambling
10 rates from our meta-analysis, and Table II presents
11 past year rates, which tend to be more conservative
12 and more precise because these estimates avoid some of
13 the technical time frame problems often associated
14 with prevalence research.

15 Whether we use lifetime or past-year rates,
16 disordered gambling reveals itself with remarkable
17 consistency across research study protocols. Doctor
18 Volberg also referred to this. Disordered gambling
19 does not, however, appear with equal prevalence among
20 every segment of the population. For example, young
21 people evidence higher rates of gambling disorders
22 when compared with adults, from the general

1 population. Psychiatric and drug abusing patients
2 experience even higher levels of gambling disorders
3 than do adults and young people from the general
4 population.

5 In general, our research revealed that
6 these estimates are very robust across methodology and
7 methodological instruments, measurement instruments,
8 jurisdictions, regardless of the methods used to
9 calculate these rates, or the protocols, as I
10 mentioned, or even attempts to weight our values by
11 the quality of the research, estimates of pathological
12 gambling remained remarkably consistent and within a
13 very narrow range of less than one percent.

14 I'd like to make a few comments about the
15 state of gambling research in general. To date, the
16 conventional wisdom surrounding addictive behaviors,
17 alcoholism and other drug dependencies for example,
18 has been used to inform the study and treatment of
19 pathological gambling. However, I believe, and have
20 for quite a while, that the study of disordered
21 gambling holds greater potential to inform our
22 understanding of drug addiction than the other way

1 around.

2 To illustrate, during the study of
3 addictive behaviors that involved the use of
4 psychoactive drugs, scientists have been unable to
5 separate the impact of these drugs from the effects of
6 a repetitive pattern of emotionally stirring
7 experiences. A study of pathological gambling permits
8 us to begin to sort out these influences.

9 Presently, the only funding initiative
10 focused on a scientific study of gambling disorders
11 has been undertaken by the National Center for
12 Responsible Gaming. The emergence of this young
13 organization has been very important for two primary
14 reasons. First, it's encouraged a growing number of
15 scientists to contemplate and investigate gambling
16 problems, and, second, it represents an understanding
17 by a segment of the gaming industry that we must
18 address gambling related problems.

19 In addition to the value of studying
20 pathological gambling for its potential contributions
21 to the understanding of other addictive behaviors,
22 disordered gambling itself represents a meaningful

1 public health concern. Disordered gambling is as
2 prevalent as many other conditions that receive
3 considerably more attention and research funding.
4 This inattention is the result of limited ideological
5 understanding and institutional inertia.

6 Our new research reveals that during the
7 past 23 years, in spite of higher rates of disordered
8 gambling among adolescents and substance abusing or
9 psychiatric patients in treatment, only the adult
10 segment of the general population has shown an
11 increasing rate of gambling disorders.

12 Among the risk factors for gambling
13 disorders, gender, age, psychiatric status and family
14 history appear among the most prominent. For example,
15 adults in treatment for substance abuse or other
16 psychiatric disorders are almost nine times more
17 likely to have a level three gambling disorder during
18 their lifetime, when compared with adults from the
19 general population. Similarly, adolescents from the
20 general population and college students have a greater
21 risk of experiencing a gambling disorder compared with
22 their adult counterparts by a factor of 2-1/2 to three

1 times.

2 Males from the adult general population are
3 almost two times more likely than their female
4 counterparts to suffer level three gambling problems
5 during their lifetime. Male college students are
6 almost four times more likely to have serious gambling
7 problems, compared with their female counterparts.

8 The rate increase we observed among adults
9 from the general population could be due to many
10 factors. For example, during the past two decades
11 there's been an increased availability and
12 accessibility to gambling. There's been an increased
13 social acceptance of gambling. There are few messages
14 about the potential risks and hazards of gambling.
15 There's been an increasing desire to participate in
16 risk-taking activities in general. And, perhaps,
17 there's been a decline in the belief that one can
18 achieve the American dream, a growing sense of
19 emotional discomfort, a malaise or dysthymia among the
20 American people. All of these things could play a
21 role in increasing the rate for disordered gambling
22 among the general adult population.

1 Observers tend to think that disordered
2 gambling is growing in direct proportion to the
3 expansion of legalized gambling opportunities. This
4 may not be an accurate perception. Assessing shifting
5 social trends is very difficult without evidence from
6 prospective research, and as Doctor Volberg has
7 already mentioned we have no prospective research to
8 date, and I'm very excited about the prospects of her
9 work.

10 However, gambling certainly has expanded
11 much more rapidly than the rate of disordered
12 gambling. We do know that. Tobacco, arguably the
13 most virile and objective chemical dependence, has
14 been widely available, and despite this wide
15 availability tobacco has a much smaller user base than
16 20 years ago. We must conclude that availability is
17 not a sufficient, sole explanation for the increased
18 rate of gambling as an addictive disorder in the
19 United States.

20 In part, the history of gambling research
21 inadvertently has fueled this very perception that
22 expanded gaming, and by expanded I mean lottery,

1 casino, charitable gaming, is the sole course of
2 increased gambling problems. And, the reason for this
3 is that early gambling prevalence studies tended to
4 focus on the adult general population. This is the
5 population segment with the lowest rate of gambling
6 disorder. More recently, as Doctor Volberg described,
7 their research interests have become much more
8 diversified and they've examined young people and
9 other high-risk population segments. Consequently,
10 the shifting evidence provided by more recent studies
11 of new population segments with higher rates of the
12 disorder have, perhaps, biased the prevailing
13 subjective impressions of our disordered gambling
14 prevalence rates.

15 At the risk of being misinterpreted and
16 misrepresented, I'd like to note that many economists,
17 researchers and social policymakers have made two
18 important assumptions about disordered gambling that
19 are often incorrect. It's incorrect that all gamblers
20 who experience problems with gambling eventually
21 progress to become level three or pathological
22 gamblers. Secondly, it's incorrect to assume that

1 once someone becomes a disordered gambler only
2 professional treatment will arrest the problem.

3 Just as most people who occasionally feel
4 depressed do not progress to a state of clinical
5 depression, most gamblers with level two gambling-
6 related problems do not experience a progression to
7 level three states.

8 Further, in addition to professional
9 treatment, there are many different pathways out of
10 disordered gambling. Gamblers Anonymous, perhaps, is
11 best known, but natural recovery is certainly another
12 pathway out of disordered gambling.

13 Current research has not identified
14 reliable methods for determining which gamblers will
15 develop gambling disorders, or who will recover with
16 or without treatment.

17 Furthermore, without precise estimates of
18 the duration of gambling disorders, and the extent of
19 people who recover without any treatment at all, it's
20 not possible to estimate accurately the economic and
21 social impact of disordered gambling.

22 While the rate of disordered gambling among

1 adults may continue to increase, such an increase is
2 not without end. Just as Americans have been reducing
3 their use of tobacco and alcohol during the past two
4 decades, in spite of the widespread availability of
5 these products, the rates of gambling excess will also
6 begin to diminish as people learn of the potential
7 personal and social risks associated with gambling.
8 This has happened on two previous occasions, it's
9 likely to happen again.

10 Scientists and lay observers alike have
11 questioned the validity of our disordered gambling
12 measures. The problems associated with determining
13 construct validity, or what it is that we're actually
14 measuring, begin with its very definition. Validity
15 is the capacity of an instrument to measure what it
16 purports to measure. Validity is neither a static nor
17 an inherent characteristic of a screening instrument.
18 Validity raises the question of what purpose is the
19 instrument being used for, and how accurately does the
20 instrument perform for that purpose.

21 Determining instrument validity is an
22 unending and dynamic process. We simply cannot

1 conclude that any single instrument is reliable and
2 valid for all purposes in all settings. Validity is
3 the consequence of applying an instrument to a
4 measurement task, guided by a theoretical frame.
5 When conventional wisdom or theory change, the
6 validity of a screening instrument can end in an
7 instant.

8 Existing methods of estimating the rate of
9 disordered gambling include bias, and I know that many
10 of you have expressed interest in this particular
11 issue. Over-estimates emerge because almost every
12 attempt to measure the prevalence of disordered
13 gambling have failed to exclude other psychiatric
14 disorders that can complicate this picture. Doctor
15 Volberg is about to embark, I think, on one of the
16 first of these that will carefully address that issue.
17 These disorders can stimulate or mimic gambling
18 disorders. Similar prevalence estimate inflation can
19 occur when investigators employ lifetime time frames
20 of reference.

21 Alternatively, underestimates can occur
22 when the general population studies fail to include

1 high-risk groups. These estimates are inherently
2 unrepresentative of the entire population.

3 Psychiatric patients, homeless individuals,
4 incarcerated prisoners are under-represented in most
5 population studies. Telephone-based studies tend to
6 underestimate the extent of gambling problems, since
7 some population segments fail to have access to or
8 answer the telephone consistently. Disordered
9 gamblers, in particular, may be gambling when
10 investigators make screening calls. Ultimately, all
11 of our current estimates of disordered gambling
12 prevalence either over or underestimate certain
13 segments of the population. For example, general
14 population rates over-estimate the prevalence of
15 female gambling disorders and simultaneously grossly
16 underestimate the rate of gambling disorders among
17 male psychiatric patients.

18 There's no single estimate of gambling
19 disorders that will suffice for the country.
20 Prevalence estimates must, in my opinion, be
21 stratified by important population segments, so that
22 risk factors can be prioritized for reduction and

1 prevention.

2 Variation among respondents, study methods
3 and results across studies is a primary reason that
4 meta-analysis has emerged in a wide variety of
5 investigative areas beyond gambling, as the scientific
6 method of choice for determining the meaning and value
7 of research.

8 As I complete my testimony, I'd like to
9 offer, respectfully, five suggestions for your
10 consideration. First, since gambling problems,
11 particularly, among the young, are not dramatically
12 different from alcohol and other drug-using problems,
13 I believe that gambling proponents and opponents alike
14 should join forces to develop and implement
15 prevention, education and treatment initiatives for
16 disordered gambling that are commensurate with these
17 other problems.

18 Second, to engage in this bipartisan
19 program initiative, it will be necessary to use the
20 most rigorous scientific information, and provide
21 improved education, training and clinical supervision
22 to both gambling and other addiction treatment

1 specialists.

2 Third, to advance this scientific
3 knowledge, I encourage, respectfully, this Commission
4 to prioritize a prospective or incidence study of
5 gambling disorders among high-risk population
6 segments, for example, adolescent males. More than
7 any single prevalence study, an incidence study will
8 help us understand what specific factors encourage
9 level one gamblers to become level two or three
10 gamblers.

11 I believe that the federal and state
12 government should advocate for the treatment of those
13 suffering with disordered gambling by requiring the
14 insurance industry, if you will, to allocate the
15 resources necessary to support this important and
16 legitimate health care service.

17 Finally, I respectfully encourage this
18 Commission to press the federal government, through
19 its National Institutes of Health, to develop a
20 rigorous research and treatment improvement
21 initiative, along with the funding stream necessary to
22 advance the study of disordered gambling and its

1 treatment.

2 In conclusion, I believe that while science
3 can inform public policymakers about the nature of
4 disordered gambling, the final decision about how
5 America gambles is neither a scientific or an economic
6 judgment. It requires the resolution of values.

7 Chair James and members of the Commission,
8 once again, thank you very much for your invitation to
9 be here, and thank you for your time and
10 consideration.

11 CHAIRMAN JAMES: Doctor Shaffer, thank you
12 so much.

13 I'd like to open it up now for questions
14 for Doctor Shaffer.

15 Doctor Dobson?

16 COMMISSIONER DOBSON: Thank you, Doctor
17 Shaffer. I found your report very interesting. I was
18 interested, particularly, in your inability to link
19 the increases in the numbers of disordered individuals
20 with this particular problem with the availability of
21 gambling. I'd like if you could elaborate on that.
22 Is it not true that when gambling is introduced into

1 an area where it has not been before that, at least
2 subjectively, hot line calls and Gamblers Anonymous
3 and things of that nature almost always increase?

4 DOCTOR SHAFFER: Yes.

5 COMMISSIONER DOBSON: There is some
6 subjective evidence that would tell us something, is
7 there not?

8 DOCTOR SHAFFER: I think to clarify that
9 point, if I could, because I think there's a great
10 deal of misunderstanding around that issue and,
11 perhaps, this is an instance where the rigors of
12 science sometimes belie the utility of that evidence
13 for policymakers.

14 We would expect all of those indicators to
15 increase. I believe they have increased. However, my
16 comments and my scientific research specifically
17 addressed whether the prevalence of disordered
18 gambling increases, not whether they increase in the
19 aggregate.

20 We would expect in the aggregate those
21 problems to increase. I was directing my comments,
22 both in my written work and in my testimony this

1 morning, to the prevalence, which means that the
2 percentage of people with the problem may or may not
3 increase in certain segments of the population, but
4 the number of people who are exposed to gambling will
5 increase and, therefore, if we have ten percent of 100
6 people or ten percent of 1,000 people the aggregate
7 numbers will change as more people are exposed to
8 gambling.

9 We've been very interested, though, from a
10 disease prevention point of view at the medical
11 school, whether the availability of gambling would
12 start what might be considered an epidemic or pandemic
13 process, where the actual number of people suffering
14 from the disorder increases, not just in the
15 aggregate, but in the percentage, in the prevalence.

16 And, I think sometimes people misinterpret
17 the distinction between those two concepts.

18 COMMISSIONER DOBSON: Do you have any
19 impressions about the gambling industry's practices
20 and how that influences the possibility of additional
21 individuals with this problem, through advertising,
22 what's been called predatory advertising, or the

1 environment itself, the environment of the gambling
2 effort in a given area, anything of that nature?

3 DOCTOR SHAFFER: Well, advertising is,
4 obviously, essential to the awareness of the American
5 public to a variety of products, whether it's gambling
6 or grocery products, advertising plays a key role in
7 exposing people.

8 As we expose more people, we can expect in
9 aggregate more problems. Whether or not that actually
10 influences the prevalence rate, I really can't comment
11 from a scientific perspective. I can comment from a
12 clinical perspective, because in addition to my
13 scientific work I still see and work with patients on
14 a daily basis, and I can tell you that from the
15 patients that come in to my office their sense that
16 they can contribute to the outcome of gambling is
17 fueled by advertising in general, primarily, I would
18 say, by state lotteries.

19 My experience is that state lotteries imply
20 to players that this is something less than a random
21 event, that they can play numbers to achieve certain
22 ends, and I guess that in my clinical work and in my

1 scientific work it's gambling because there is no
2 skill involved.

3 So, when advertising implies skill, I would
4 say that we are moving off responsible advertising
5 track.

6 CHAIRMAN JAMES: I have one question just
7 for clarification.

8 The difference between prevalence and the
9 aggregate, and I understand that from a scientific
10 perspective, if you are looking at prevalence numbers,
11 that's about -- you know, that's what your research is
12 centered on.

13 However, for a public policymaker or a
14 decision maker at the local level, who is trying to
15 decide whether or not this is good for the community,
16 whether or not this is bad for the community, if it's
17 a public policy question, is this when a state
18 legislator is looking at making a vote, at the end of
19 the day does your research say there will be more
20 numbers of people who would potentially have a problem
21 or be exposed to a problem?

22 DOCTOR SHAFFER: Currently, about 90

1 percent of the American public has gambled during
2 their lifetime, approximately, depending which
3 research study you read, but approximately 90 percent.

4 The question is, will the number of people,
5 of the 90 percent who gamble, develop a level of this
6 disorder differently now than they did 20 years ago or
7 20 years from now.

8 We have evidence that those problems are
9 growing among the adult general population, but have
10 not significantly changed among children, patients
11 with psychiatric problems or substance abuse problems,
12 or other segments of the population where the rates
13 are already much higher than the adult population.

14 My own sense of this is that like tobacco
15 and alcohol these rates will ultimately decline, the
16 question is when. Science is not very good at
17 predicting things in the future, and
18 I wouldn't go out on that limb, so I would suggest
19 that the real issue is how long will this increasing
20 trend continue.

21 I am quite confident it will take a down
22 turn. I have great faith in the resilience of the

1 human condition and its capacity to adapt. I do think
2 that it will turn downward if we do nothing, my
3 question for all of us to consider, for the Commission
4 to consider is, can we tolerate the time period, do we
5 just have to sit back and wait or is there something
6 that we can do to keep this level at its lowest
7 possible rate, and then let nature take its course.

8 But, I am quite confident that it will
9 likely probably edge up a little bit more, then
10 stabilize, and then move downward.

11 CHAIRMAN JAMES: Commissioner Leone.

12 COMMISSIONER LEONE: Yes. I have a couple
13 of questions I want to ask the whole panel, but I have
14 one specific question about your testimony, because a
15 line struck me, and I want to ask it as a more general
16 question than about gambling. You said an increasing
17 desire to participate in risk-taking activities, which
18 is a point I hadn't seen made before in general, and
19 I just wonder if you could elaborate on that point.
20 I found it interesting.

21 DOCTOR SHAFFER: Well, a lot of things have
22 changed over the last 20 years, in addition to the

1 expansion of legalized gambling in the United States.
2 We've seen, over that 20 years, a rapid increase, and
3 now, hopefully, a meaningful decline, in violent
4 crime, for example. We've seen risk-taking
5 activities, like bungee jumping and sky diving
6 increase exponentially during the same period. There
7 seems to be a genuine hunger among the American people
8 to take greater risks during this period of time.

9 They may be expressing that risk in
10 gambling as well as in bungee jumping, driving
11 automobiles rapidly and so forth.

12 COMMISSIONER LEONE: Has there been any
13 speculation about what factors might be affecting this?

14 DOCTOR SHAFFER: It's very difficult to
15 say, but these changes in the American psyche, if you
16 will, and their behavior tend to parallel the use of
17 psychoactive drugs. During the same period, we saw an
18 increased use in stimulant-using drugs, and stimulant-
19 abusing drugs, rather than sedating drugs, so that,
20 America seems to go through a period where it likes to
21 sedate itself, quiet, reflect and become more
22 meditative, and then other periods where it likes to

1 get more aggressive, stimulate itself and take higher
2 risks.

3 And, I wish I could do better than that for
4 you.

5 COMMISSIONER LEONE: Has anybody -- I mean,
6 there's one dangerous and obvious correlation,
7 dangerous from a question of academic rigor, that I
8 could make just off the top of my head, I just wonder
9 if anybody has looked at this. Has anybody looked at
10 this in terms of income stagnation and increasing
11 wealth and equality over time?

12 DOCTOR SHAFFER: They may have, but I'm not
13 aware of it. I'm just not familiar with that.

14 COMMISSIONER LEONE: It just happens to fit
15 perfectly.

16 DOCTOR SHAFFER: With that and many other
17 things as well.

18 COMMISSIONER LEONE: Yes, with many other
19 things, that's why I said it was a dangerous
20 conclusion, I just wondered with expected behavior and
21 ways, if anybody has looked at that.

22 DOCTOR SHAFFER: That's a wonderful

1 question, an interesting matter, and another area that
2 I think scientists should apply their skills.

3 CHAIRMAN JAMES: I do want to keep us as
4 close to being on time as we can be, but we do have a
5 little bit of fudge in the schedule, so, Commissioner
6 Wilhelm, and we'll be getting to Doctor Lesieur.

7 COMMISSIONER WILHELM: If I might, Kay, I
8 want to ask a question that flows from Doctor
9 Shaffer's testimony, which I found extremely useful,
10 but I would like to address it to Doctor Volberg, and
11 that is this, Doctor Shaffer spoke in generally
12 positive terms about the National Center for
13 Responsible Gambling, which, as I understand it, is
14 funded by the gambling industry. It seems to me, and
15 you spoke in your comments about the need for
16 additional funding for this kind of research, which
17 makes a lot of sense to me.

18 Since the prevailing political wisdom is
19 that family values require that the government doesn't
20 spend anymore money, I'm assuming there's not going to
21 be a sudden onslaught of federal money for this stuff,
22 even if there should be. So, my question is this, in

1 your opinion -- well, I'm sorry, one more sentence to
2 preface -- it seems to me the gambling industry is
3 sort of damned if it does and damned if it doesn't.
4 Yesterday, for example, on our bus tour there was a
5 sign that somebody was holding as we went by that said
6 that the gambling industry is making a lot of money in
7 Atlantic City but the schools didn't have enough
8 money. And then, one of our witnesses, somebody who
9 testified last night was criticizing the gambling
10 industry for contributing to schools in Louisiana,
11 which I thought was a nice conjunction.

12 So, my question is this, in your opinion,
13 do you think that it would be appropriate for the
14 gambling industry to significantly increase the amount
15 of funding that it provides, either through the
16 National Center for Responsible Gambling or in some
17 other fashion, for the kind of research that you are
18 advocating?

19 DOCTOR VOLBERG: In my opinion, I believe
20 that that would be something that would be
21 appropriate. The National Center for Responsible
22 Gaming is a very young organization, it's only been

1 existence, oh, for less than two years, but we have
2 been calling, gambling researchers who have been in
3 the field for a while, have been calling for some kind
4 of effort to fund research for many years. The NCRG
5 is the first effort that we've seen, and I absolutely
6 have to applaud the casino industry for coming up with
7 that particular method, it's a peer reviewed,
8 scientifically sound way of getting research done,
9 but, again, it's very early days. And so, you know,
10 whether that effort will continue, how high a level it
11 will take in terms of the funding that they are able
12 to get from the casino industry, I think, you know,
13 the casino industry is not the only gaming industry,
14 the lotteries are, you know, also sizeable, charitable
15 gaming is something that most people don't even --
16 when you ask them, you know, if they think that Bingo
17 is gambling, many, many people will tell you that they
18 don't think Bingo is a type of gambling. And so, the
19 charitable gaming industries have probably been the
20 least responsive in terms of addressing issues of
21 research and treatment and problem gambling in
22 general, the para-mutuals, too.

1 COMMISSIONER WILHELM: Thank you.

2 CHAIRMAN JAMES: We're going to do one more
3 question and then we're going to go to Doctor Lesieur.

4 Leo.

5 COMMISSIONER McCARTHY: I want to thank all
6 three panelists for appearing here today. They all
7 have very good professional reputations, and it's
8 helpful to us in trying to gather accurate perceptions
9 of the data out there when we have to write a report
10 to the President and the Congress at the end of our
11 two-year life. And, it helps us frame future hearings
12 as well, you know, what subjects to get into and what
13 questions to ask.

14 Doctor Shaffer, as I look at your tables
15 regarding level three adult population lifetime, is
16 the number 2.2 million about right?

17 DOCTOR SHAFFER: 2.2 million people you are
18 referring to?

19 COMMISSIONER McCARTHY: Yes.

20 DOCTOR SHAFFER: Those numbers correspond
21 based on the last census data to about 2.2 million.

22 COMMISSIONER McCARTHY: Okay.

1 And, the year used for the census, '96,
2 '97, or are you referring to the decennial census?

3 DOCTOR SHAFFER: We used the census data
4 that was most recently posted on the Internet, so that
5 people could test our numbers against that data, and
6 I believe that's 1996 data.

7 COMMISSIONER McCARTHY: Okay.

8 So, 2.2 million adults, as to juveniles, as
9 I look at the tables, it was approximately the same
10 number lifetime, about 2.2 million.

11 DOCTOR SHAFFER: That's right.

12 COMMISSIONER McCARTHY: So, we are looking
13 at a cumulative population of 4.4 million level three,
14 the most serious kind of pathological gamblers, in the
15 United States as we sit here, is that accurate?

16 DOCTOR SHAFFER: I provided that material
17 to the Commission in this report. You should all have
18 a copy of this available. If you don't, we'll be glad
19 to provide it.

20 COMMISSIONER McCARTHY: That's how I read
21 the numbers from that report, I just wanted to make
22 sure at this public hearing that I was reading them

1 accurately.

2 DOCTOR SHAFFER: That is accurate.

3 COMMISSIONER McCARTHY: Thank you.

4 Now, on level two, in your testimony you
5 mentioned that the majority of level two gamblers
6 would not find their way to level three. Help me
7 understand what that means, how many at level two
8 would find their way to level three, an approximation
9 that's valid based on your synthesis of the studies
10 you and your colleagues have been reviewing.

11 DOCTOR SHAFFER: It would require new
12 research to answer that question with any precision.
13 That kind of issue is quite common, by the way, with
14 all disorders, not just gambling. Most people have
15 symptoms in their life of many different things and
16 don't progress to the more virulent form of the
17 disorder. For example, we have symptoms of colds and
18 don't all develop pneumonia.

19 COMMISSIONER McCARTHY: And, I was
20 accepting your statement that a majority of level two
21 would not proceed to level three.

22 DOCTOR SHAFFER: Yes.

1 COMMISSIONER McCARTHY: What I'm trying to
2 pinpoint, since level two is a fairly sizeable number
3 of people, is it one third, is it one quarter that are
4 likely to find their way at the level three condition
5 or not, but your answer is --

6 DOCTOR SHAFFER: Well, it would roughly be,
7 if we looked at the statistics that we had, it would
8 be roughly one quarter to one third.

9 COMMISSIONER McCARTHY: Okay.

10 DOCTOR SHAFFER: Roughly, but I can't say
11 that with the precision that would make me feel
12 comfortable.

13 COMMISSIONER McCARTHY: No, I understand.

14 DOCTOR SHAFFER: But, it would be
15 approximately one third to one quarter.

16 COMMISSIONER McCARTHY: There will be a
17 tendency to look at your study sentence by sentence
18 and grasp what sentence may back up a particular point
19 of view, so I'm asking you in a way that, you know,
20 you can answer in a conditional response. But, I just
21 wanted an approximation so we have a sense of this
22 going forward.

1 DOCTOR SHAFFER: I think the reasonable
2 approximation would be about 25 percent.

3 COMMISSIONER McCARTHY: Now, you said in
4 this testimony given to us, which is reflective of
5 your study, while the rate of disordered gambling
6 among adults may continue to increase, such an
7 increase is not without end, and that's in common with
8 that point made in a couple of other places. I'm
9 looking at the paragraph which says the increased
10 availability and accessibility to gambling, increased
11 social acceptance of gambling, few messages about the
12 potential risks and hazards of gambling, and we talked
13 a little bit about risk taking, but those elements,
14 and I was trying to think in my own mind, you know,
15 why you've said that gambling certainly has expanded
16 more rapidly than the rate of disordered gambling, and
17 it struck me that, of course, in tobacco there has
18 been such a volume of negative publicity, the
19 requirement of the Surgeon General's warning message
20 be printed on a package of cigarettes, everything up
21 to these massive lawsuits that are pending now, the
22 drum beat, the negative drum beat against the tobacco

1 industry, whereas, with the gambling industry, of
2 course, whether we judge it to be appropriate or
3 inappropriate, on a proportionate basis, a comparative
4 basis, there is very little negative publicity attached
5 to the risk. Is that an accurate perception on my part?

6 DOCTOR SHAFFER: I think it is. I think
7 there are certainly exceptions that you'll find around
8 the country. In Massachusetts, for example, we have
9 point of sale information on lottery tickets that
10 indicate that there's some warning about the poten<Aal
11 risks and hazards of this activity, but on balance I
12 think you are absolutely correct, and that may be a
13 major factor in the difference between what we see in
14 tobacco and gambling.

15 COMMISSIONER McCARTHY: That's what I was
16 trying to get at here, to understand that. How much
17 does the absence of any significant amount of negative
18 publicity on the fact that there are 4.4 million level
19 three pathological gamblers in the United States as we
20 are sitting at this meeting, you know, I mean nobody
21 knows that.

22 DOCTOR SHAFFER: If I might add, it's not

1 just the absence of that specific message, but it's
2 also the absence of educating our children in the
3 school systems about mathematics, about statistics and
4 probability, and number sense, so that when exposed to
5 advertising they have little capacity, or actually
6 diminished capacity, when we compare our educational
7 levels two years ago to understand and make sense of
8 the whole phenomena of gambling.

9 So, I do think messages to the contrary
10 could change these trends in an important way.

11 COMMISSIONER McCARTHY: So, how can I be
12 confident that the rate of disordered gambling or
13 pathological gambling is not increasing? I mean, in
14 the absence of any negative publicity, or the education
15 in the context you just mentioned, isn't that a very
16 persuasive reason?

17 DOCTOR SHAFFER: Well, let me just
18 interject. It is increasing among adults in the
19 general population, the rate is increasing among
20 adults in the general population.

21 COMMISSIONER McCARTHY: Observers tend to
22 think that disordered gambling is growing in direct

1 proportion to the expansion of legalized gambling
2 opportunities, this may not be an accurate perception.

3 DOCTOR SHAFFER: Underscore in direct
4 proportion. The question is, in direct proportion, it
5 was --

6 COMMISSIONER McCARTHY: Oh, in direct
7 proportion.

8 DOCTOR SHAFFER: -- but it's not
9 proportionate, that the expansion of gambling is not
10 directly proportionate to the amount of disordered
11 gambling that we're seeing.

12 COMMISSIONER McCARTHY: All right.

13 And, is that an actual figure, it's not
14 growing in proportion, or how is it related to
15 increased social acceptance of gambling to few
16 messages about the potential risks and hazards and so
17 on.

18 DOCTOR SHAFFER: Those are all factors that
19 could be responsible for the increase. They also can
20 be responsible for tempering the increase, and in
21 different amounts they could actually lead to a
22 decrease. So, those are just likely factors that can

1 influence rate changes.

2 COMMISSIONER McCARTHY: Okay.

3 Doctor Shaffer, I appreciate that your
4 study was not an original research, as you made very
5 clear, you and your colleagues were analyzing and
6 correlating a number of other studies on gambling that
7 had been done. Are you confident that the methods
8 used to estimate disordered gambling populations was
9 not an understatement of the level three number of
10 gamblers? As you've indicated, it widely varied, the
11 methodologies, and you did, indeed, try to analyze ten
12 or 12 different methodological tools. Are you
13 confident that there was no underestimating of the
14 number of disordered persons?

15 DOCTOR SHAFFER: Thank you for that
16 question, that's one of my favorite questions, because
17 I think that the technology that we used permits those
18 researchers who may have overestimated to be balanced
19 by those who underestimated, yielding a meaningful and
20 a consistent estimate.

21 I do think, though, I should also add that
22 the quality of the studies that were integrated varied

1 greatly, and the quality of the studies did not really
2 influence the prevalence rate that they estimated,
3 much to our surprise by the way.

4 So, I'm very confident that the numbers
5 that we provided, using many different algorithms and
6 methodologies, are robust and reliable, and I think
7 fall within a surprisingly narrow range, so that this
8 thing that we are talking about is disordered or
9 pathological gambling I believe is a real phenomena
10 and I believe that it's real with great consistency,
11 and it withstands the manipulations that I and my
12 colleagues and other scientists used to try and study
13 them.

14 CHAIRMAN JAMES: At this point, I'm going
15 to ask that we move on to Doctor Lesieur, but want to
16 thank you, Doctor Shaffer, and also acknowledge to the
17 full Commission that Doctor Shaffer and, hopefully,
18 Doctor Volberg and Doctor Lesieur as well, will
19 continue to offer advice and counsel as we go through
20 this process. Doctor Shaffer offered yesterday to sit
21 down and continue to talk through some of these issues
22 with commissioners, and for that I am truly grateful

1 and thankful.

2 Doctor Lesieur.

3 DOCTOR LESIEUR: Chair James and members of
4 the Commission, I'd like to thank you for inviting me
5 to speak here.

6 I'd like to introduce myself first. I am
7 President of the Institute for Problem Gambling. That
8 is a non-profit organization that has been set up
9 primarily for training treatment professionals to
10 treat pathological gamblers. I'm also a member of the
11 Board of Directors of the National Council on Problem
12 Gambling. I am a member of the Board of Directors of
13 the Rhode Island Council on Problem Gambling. I'm on
14 the Advisory Board of the Council on Compulsive
15 Gambling of New Jersey, and a good dozen other problem
16 gambler-oriented organizations.

17 I've conducted research since 1971 on
18 problem gambling, over 25 years. I'm the author of a
19 book called, "The Chase," founding editor of the
20 Journal of Gambling Behavior, which -- Journal of
21 Gambling Studies, which Howard Shaffer now edits, and
22 I was a member of the Workgroup on DSM-IV, one of the