

1 PENNSYLVANIA HOUSE OF REPRESENTATIVES

2 TRANSPORTATION COMMITTEE HEARING

3

4 TEEN DRIVING AND OTHER DISTRACTED

5 DRIVER ISSUES

6 Public Hearing on

7 House Bill 1827

8

9 425 Sixth Avenue

10 31st Floor

11 Regional Enterprise Tower

12 Pittsburgh, PA 15219

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

2 (1:17 p.m.)

3 MR. MARKOSEK: Okay. Ladies and gentlemen,
4 welcome. Normally we start the Transportation Committee
5 meetings off with the Pledge of Allegiance to the flag.
6 We have no flag here today.

7 REPRESENTATIVE PAUL COSTA: We have one on my
8 lapel.

9 CHAIRMAN MARKOSEK: We're going to ask Paul
10 Costa, to stand, pledge anyway, and we'll have an
11 imaginary flag.

12 (Pledge of Allegiance recited.)

13 CHAIRMAN MARKOSEK: Thank you.

14 I'm sorry we're a little bit late. We were
15 waiting for some members. We got phone calls that some
16 members were on their way, some have arrived. Chairman
17 Geist is on his way. We thought maybe if we held off a
18 little bit he would get here, but I think he'll be here
19 soon. We thought in the interest of time, we would move
20 forward. And when he gets here, we'll give him a chance
21 for some opening remarks.

22 Before I make my opening remarks, I would like to
23 introduce the panel today. First of all, we have
24 Representative John Evans from Erie County, who has

1 traveled here today.

2 We have Representative Josh Shapiro from
3 Montgomery County, and also his neighbor from Montgomery
4 County, Representative Mike Gerber.

5 We have Representative Jeff Pyle from Kittanning
6 and Armstrong.

7 REPRESENTATIVE PYLE: Ford City.

8 CHAIRMAN MARKOSEK: Ford City. And he represents
9 Kittanning, but Armstrong County.

10 We have Representative Tim Solobay from Washington
11 County; and Representative Mark Longietti from Mercer
12 County; and Representative Paul Costa, whom you've
13 already had met from Allegheny County.

14 Let me just start by saying thanks to everybody
15 for attending today. This is really the third hearing
16 that we have had on distracted driving issues. We held
17 one in Philadelphia. We held one in Harrisburg, and, of
18 course, now this one here in Pittsburgh.

19 You know, it's interesting, when I was first
20 elected to the legislature, I think drinking a cup of
21 coffee may have been about the extent of distracted
22 driving, maybe disciplining your child in the car,
23 perhaps lighting a cigarette. In fact, in those days I
24 don't even think they had cup holders, and even turn

1 signals might have been optional back then. But there
2 was a time when that was the case.

3 Nevertheless, as the technology has gone on, in
4 so many areas, not just in driving, but with the
5 computer age, et cetera, oftentimes the legislature has
6 had a difficult time keeping up with the changes in
7 technology. And we don't move as fast as the technology
8 moves. We're not designed to move fast. We are a
9 deliberative body, and there's a reason for that. Its's
10 actually a good reason, but, nevertheless, when we have
11 such outside factors, such as technological
12 advancements, we oftentimes don't move quick enough to
13 meet those demands that take place. We see a lot of
14 that when it comes to operating automobiles.

15 Obviously, with the invention and advancement and
16 the ubiquitous nature of cell phones, and blackberries,
17 and text messaging now, as well as all of the other
18 things that used to distract us; having a lot of
19 teenagers in a car that are perhaps egging on each other
20 to go faster, the mixing of alcohol into that equation;
21 the whole idea of primping in a car, you know, combing
22 your hair, putting your makeup on, shaving, in some
23 cases that we see.

24 We have finally decided, at least this term the

1 Transportation Committee to grapple with some of these
2 issues, and they're not easy to do that. It's
3 oftentimes an easy thing a lot of our constituents will
4 contact us and say that, you know, there ought to be a
5 law. We ought to ban cell phones or we ought to ban
6 text messaging, or not allow too many teenagers to drive
7 in an automobile together. And those things are often
8 very good ideas, but we sometimes run into a lot of
9 legislative detail. For example, things like the
10 enforcement of those laws that factor into these
11 situations.

12 So anyway, the testimony that we will hear today
13 will help us as a committee.

14 And before I go on to recognize anybody else, I would
15 like the minority chair, Representative Geist, who now
16 has arrived, to please come forward, and, certainly,
17 Representative Geist, I would appreciate to hear any
18 comments that you may have.

19 REPRESENTATIVE GEIST: Thank you.

20 CHAIRMAN MARKOSEK: We have a number of bills in
21 our committee dealing with various aspects of distracted
22 driving. And we have, obviously, each one of those
23 bills has a sponsor, sponsored by both Democrats and
24 Republicans. One of those sponsors is actually with us

1 today, he's not a member of the committee, but he's been
2 very active in the area of distracted driving, and
3 precisely, he is the author of House Bill 1827, which
4 would not ban cell phones, but would mandate cell
5 phones, but would mandate that cell phones be used in a
6 handsfree situation.

7 I'm going to deviate slightly from the agenda and
8 recognize first Representative Josh Shapiro, who
9 traveled here from Montgomery County, to give us a few
10 comments about his particular piece of legislation.
11 Representative Shapiro.

12 REPRESENTATIVE SHAPIRO: Thank you, Mr. Chairman,
13 Chairman Markosek and Chairman Geist. Thank you to the
14 members of the committee. Thank you for giving me the
15 chance to join your committee today for this important
16 hearing on distracted driving.

17 As the chairman alluded to, there are many bills
18 that have been introduced by Democrats and Republicans
19 in the legislature to deal with distracted driving. My
20 legislation is very simple. It would ban the use of
21 handheld cell phones while driving. We mandate that
22 drivers used some sort of handsfree device, whether it's
23 a Blue Tooth, a head set, a speaker phone, so that we
24 can disconnect distracted drivers, allow them to have

1 both hands on the wheel, and operate their cars, their
2 vehicles in a more, I think, safe manner.

3 The statistics are clear. The National Highway
4 Traffic Safety Administration found that distracted
5 drivers are the number one cause of accidents on
6 Pennsylvania roadways. And the number one distraction
7 is the use of a cell phone while driving.

8 In addition to that, I've asked PennDOT to cull
9 over their statistics, their accident statistics. And
10 what they found is in 2006, there were 1,241 accidents
11 on Pennsylvania roadways where one of the drivers in
12 that accident was using a handheld cell phone.

13 At the same time, in 2006, there were just 60
14 accidents where one of the drivers was using a handsfree
15 device. So there were less accidents where a driver was
16 using a handsfree device than a handheld device.

17 Just having a handsfree device is not going to render
18 all distractions obsolete, as it relates to a cell
19 phone. Certainly, a driver can still be distracted
20 while using a handsfree device, but I believe, and I
21 think the statistics bare it out, that if we can give
22 the driver the opportunity to have both hands on the
23 wheel, use a headset, we can minimize the risks of
24 accidents and make Pennsylvania roadways safer.

1 So, Mr. Chairman, I thank you again very much for
2 giving me the opportunity to be with the committee
3 today. I look forward to the testimony and, hopefully,
4 have the opportunity to ask questions. And I just
5 really want to plug you for your leadership in trying to
6 make our roadways in Pennsylvania safer.

7 Thank you.

8 CHAIRMAN MARKOSEK: Thank you, Representative
9 Shapiro. And Representative Shapiro will join the
10 committee up here on the panel, and he may also ask
11 questions of any of the folks testifying.

12 Okay. Our first formal witness today, is Dr. Klauer
13 here?

14 DR. SHEILA KLAUER: Yes.

15 CHAIRMAN MARKOSEK: Dr. Sheila Klauer, who is a
16 Senior Research Associate for the Center For Automotive
17 Safety Research of the Virginia Tech Transportation
18 Institute.

19 DR. SHEILA KLAUER: Yes.

20 CHAIRMAN MARKOSEK: Dr. Klauer, thank you very
21 much for attending. Welcome.

22 REPRESENTATIVE GEIST: We've got a Hokie here.

23 DR. SHEILA KLAUER: My pleasure to be here.

24 CHAIRMAN MARKOSEK: We appreciate you being

1 here. And we know that Virginia Tech has been in the
2 news here in the last year or so for a lot of different
3 reasons, but, nevertheless, thank you.

4 And you may proceed when you're prepared.

5 DR. SHEILA KLAUER: Okay. Thank you.

6 Mr. Chairman, I would like to thank you and the other
7 members of the Transportation Committee for the
8 opportunity to testify before you today on this very
9 important topic of distracted driving.

10 I am hopeful that the testimony I give you will
11 provide you a unique and valuable perspective as you
12 weigh the important policy decisions that are in front
13 of you.

14 My name is Sheila Klauer. I'm a Senior Research
15 Associate at the Virginia Tech Transportation Institute
16 and I'm testifying before you today as a driving safety
17 researcher with a very unique experience in the
18 collection of naturalist instrumented vehicle data.
19 Recently, I served as the project manager for the 100Car
20 Naturalistic Driving Study, and as Principal
21 Investigator for several studies involving the
22 subsequent analysis of these data. These analyses
23 constitute the most comprehensive analysis of driving
24 distraction to date. Currently, I am the CoPrincipal

1 Investigator of the 40 Teen Naturalist Driving Study
2 where we are studying the driving behaviors and the
3 driving performance of 40 teens from the onset of their
4 licensure and continuing on with their first 18 months
5 of driving. My work in the field of driving inattention
6 has resulted in 24 technical reports and publications.
7 During this time I've worked with the National Highway
8 Traffic Safety Administration, the AAA Foundation for
9 Traffic Safety, the National Institutes of Health, and
10 the Transportation Research Board, which is a branch of
11 the Academies of Science in the conduct of research and
12 evaluation activities associated under the consideration
13 today.

14 There are several important points that must be
15 carefully considered in determining an appropriate
16 action to solve this growing problem. I would like to
17 highlight the important viewpoints here for your
18 consideration.

19 The distraction issues that we face today are
20 much different and have the potential to be a much
21 greater public health risk than the distraction issues
22 that we faced in the past. And there are two reasons
23 for this: First, many of the electronic devices now
24 used, and planned for use, in automobiles require

1 greater visual and cognitive attention from the driver
2 than do conventional tasks. Driving distractions, which
3 is an old problem, has entered a brand-new dimension.
4 Historically, secondary tasks performed in a moving
5 vehicle have been, and for the most part, relatively
6 simple. Tuning a radio and eating represent some of
7 these common tasks. While it is true that these tasks
8 divert attention away from the forward roadway and cause
9 crashes, analyses of some of the more current and
10 popular electronic devices and those under development
11 that are used in automobiles show that they increase the
12 risk of a crash more significantly than the simpler
13 common tasks previously described. The results of our
14 100 Car Study, which observed the driver behavior in the
15 seconds leading up to that crash indicated that when
16 drivers are engaging in tasks that require multiple eye
17 glances or multiple button presses, the driver's crash
18 risk is increased by two to three times that of an alert
19 driver. Simple tasks like drinking your morning coffee,
20 or adjusting our radio, or talking to an adult passenger
21 do not increase these crash risks significantly.

22 With the proliferation of the electronic devices
23 in our culture including cell phones, MP3 players, and
24 blackberries, both the visual and cognitive aspects of

1 distraction are much greater and more dangerous than
2 ever before. Even more concerning is how ubiquitous
3 these devices are in our teenage culture. Teens, who
4 represent 24 percent of all traffic fatalities, and are
5 the most inexperienced drivers on the roadway, are using
6 these devices frequently. The results from the 100 Car
7 Study indicated that the 18 to 20yearold drivers were
8 involved in four times the number of inattention related
9 crashes and near crashes than any other age group.

10 And I would like to demonstrate this by showing a
11 couple of video clips. The first one was identified as
12 a near crash in the 100 Car Study. There are five
13 cameras in the vehicle.

14 CHAIRMAN MARKOSEK: Excuse me, excuse me,
15 please.

16 DR. SHEILA KLAUER: Yes.

17 CHAIRMAN MARKOSEK: I think at this point in time
18 PCN cannot show your video.

19 DR. SHEILA KLAUER: Yes, don't record the video,
20 please.

21 CHAIRMAN MARKOSEK: So we apologize to the
22 viewers back home, but because of confidentiality
23 issues, we can't. So if you're watching at home, don't
24 leave. We'll be back shortly.

1 Are we okay, PCN? Okay.

2 DR. SHEILA KLAUER: Can you start the tape?

3 On their five cameras in the vehicle, including a
4 forward view, the driver's face, an over the shoulder
5 view, and then the fourth quadrant is split once again;
6 the top quadrant of the bottom is supposed to be looking
7 out the passenger side backwards, and then the bottom is
8 the rear view.

9 This particular driver is 19 years old. She is
10 lost in a middle class suburban neighborhood. And as
11 she pulls out of there, she's going to pick up her cell
12 phone to dial. Please pay very close attention to the
13 forward view.

14 CHAIRMAN MARKOSEK: Ohhh.

15 DR. SHEILA KLAUER: Had she not looked up at that
16 critical moment, this could have been a devastating
17 event.

18 CHAIRMAN MARKOSEK: This is not a stage? This
19 is - -

20 DR. SHEILA KLAUER: No. This was actual data in
21 the 100 Car Study.

22 Okay. You can click that one and go to the next
23 one.

24 The second clip is from our 40 Teen Study. In

1 this clip, the lower right quadrant shows only the rear
2 view. Please pay very close attention to this one. The
3 teen driver in this particular video is notorious for
4 using her cell phone, iPod, radio. At this moment she's
5 using her iPod.

6 Traffic is going to stop very suddenly in front
7 of her on the highway on the interstate. Watch the
8 back. She hit 0.9g to break in order to stop in order
9 to avoid hitting the vehicle in front of her. The truck
10 behind her had to pull all the way over on to the side
11 shoulder to avoid hitting her. How he missed her, I
12 don't know.

13 REPRESENTATIVE GEIST: She wasn't texting with
14 both hands like the kids do?

15 DR. SHEILA KLAUER: She was not.
16 Thank you. The second reason that distraction issues
17 are a much greater health risk

18 CHAIRMAN MARKOSEK: Are we

19 DR. SHEILA KLAUER: Yeah. We're getting

20 CHAIRMAN MARKOSEK: PCN, hold on. Okay. Welcome
21 back, PCN.

22 You may continue.

23 DR. SHEILA KLAUER: Thank you.

24 The second reason the distraction issues are a

1 much greater health risk today is due to the rate of
2 deployment. The rate of deployment of technology is
3 occurring at a record setting pace and is outpacing our
4 full understanding of the public health impact. For all
5 practical purposes, we are allowing many devices to be
6 used in moving vehicles without fully understanding how
7 they affect safety. In many ways, it's analagous to
8 allowing a drug company to release a new drug on the
9 market without fully understanding the impacts.

10 Many will argue that the true extent of this
11 threat, public safety, cannot currently be estimated
12 precisely, and, therefore, action is not appropriate.
13 But using the new drug analogy, one could argue that it
14 is necessary because we don't understand the threat to
15 public safety.

16 To be certain about the safety impact of these
17 devices, vehicle crash data must be collected in a
18 proper form for a period of several years. And even the
19 process of determining what is needed to collect and how
20 to collect it is considerably slow. For example, many
21 states still do not collect data whether a cell phone
22 was present at the scene of the crash. Thus, if we wait
23 until all the accurate data is there, the data will most
24 likely tell us that hundreds of thousands of crashes

1 involved in fatalities have resulted from delayed
2 reaction.

3 Despite our inability to make a precise estimate
4 about the true risk to public health, a growing number
5 of studies and analysis are in existence that shed light
6 on this important issue. Specifically, a number of
7 studies have investigated the risk associated with this
8 recent explosion in cell phone use over the past several
9 years. The 100 Car Study, for example, suggested that
10 cell phone use contributed to 6 percent of the crashes
11 and near crashes occurring in an urban environment. And
12 this is approximately over 100,000 crashes per year
13 nationwide, based on GES, which is the national crash
14 database.

15 The most methodologically sound estimates for
16 fatalities associated with cell phone use range between
17 300 and 1,000 per year for last year, excuse me, with
18 estimates as high as 2,000 fatalities per year. It is
19 important to note that these estimates represent on the
20 "tip of the iceberg", since the use of cell phones is
21 increasing at a rapidly accelerating rate and the
22 figures do not include the impact of other emerging
23 technologies like MP3 players and mobile Internet
24 devices.

1 While there are safety benefits that will be
2 realized, the deployment of electronic devices, these
3 benefits can be attained in only vehicles engineered to
4 minimize driver distraction.

5 Many in vehicle technologies promise to make
6 driving safer. These include collision warning systems,
7 night vision systems, and "Mayday" alert systems. In
8 addition, studies have shown that cell phones do, in
9 fact, have significant safety benefits, such as reducing
10 the response time of emergency personnel in case of a
11 crash. However, while these electronic devices have
12 shown some benefits, these benefits can be fully
13 realized only when they are incorporated in systems that
14 are designed to minimize distractions in a moving
15 vehicle. That is, with prudent design and selective
16 restrictions it may be possible to enhance safety as
17 part of the electronic revolution in automobiles instead
18 of increasing crashes and fatalities. For example, a
19 cell phone that can be used only to contact emergency or
20 law enforcement personnel by using a simple interface
21 would allow an obvious safety benefit to be realized
22 while minimizing the associated safety decrement.

23 The problem of driver distraction associated with
24 electronic devices is multidimensional, requiring

1 multiple solutions. There are important differences in
2 the deployment of electronic technology in the
3 automobile. Specifically, there are major differences
4 that exist between the devices that were designed for
5 the vehicle in the first place versus those that are
6 portable and are carried in by consumers into vehicles.
7 So for the in vehicle devices, automotive stakeholders
8 in this mobile information revolution have recognized
9 the potential risks to the public. Automobile
10 manufacturers and suppliers have already taken measures
11 to improve design and provide the appropriate
12 functionality of in vehicle systems. It is important
13 for the government to continue to support this ongoing
14 effort these ongoing efforts by these stakeholders and
15 to address the distraction issues through design and
16 implementation of safety devices. Specifically, the
17 following considerations are important for in vehicle
18 devices. Human factors design principles should be
19 followed, such as limiting visual information complexity
20 and maximizing display legibility and speech
21 intelligence.

22 To provide appropriate functionality of these
23 devices, including limiting functionality in some cases
24 in a moving vehicle, for example. This will be

1 necessary as more electronic convenience features become
2 commonplace.

3 To develop a consistent driver interface among
4 manufacturers for selected driver interface function.
5 This can significantly reduce the task load, and,
6 therefore, can reduce distraction.

7 Use properly designed "handsfree" devices when
8 effective. Handsfree operation can reduce visual
9 distraction relative to manual control/visual display
10 devices. However, Voice Activated Control, as any other
11 interface, requires careful design and deployment. When
12 properly implemented, Voice Activated Control can
13 provide an appropriate alternative method of input.

14 Handsfree devices, although advantageous in many
15 instances, can also pose a risk. Where feasible, care
16 should be taken to limit "cognitive distraction" through
17 simplification design and messaging.

18 I believe that in general the automotive industry is
19 currently taking appropriate action to protect public
20 safety. Most automobile manufacturers and some major
21 supplies are actively engaged in research, product
22 evaluation, and standards development activities aimed
23 at safely deploying electronic devices. As long as this
24 activity continues and results in devices that limit

1 functionality and minimizes driver distractions, I
2 believe that no regulatory action is necessary.

3 Portable devices, on the other hand, are a
4 greater concern than the design of in vehicle devices.
5 Because of the introduction of portable devices in cars
6 and truck. These devices include standard cell phones,
7 cell phones with additional wireless features such as
8 Internet access, personal digital assistance, and
9 portable computers.

10 In general, portable devices are not designed to
11 be safely used by the driver in a moving vehicle. In
12 addition, unlike in vehicle devices, vehicle
13 manufacturers and suppliers do not have any control over
14 their functionality or design.

15 Public awareness and education programs are an
16 important part of the solution to the driver distraction
17 problems, but they will be insufficient in and of
18 themselves. Many organizations, including the wireless
19 communications industry, have recognized the hazards
20 associated with electronic devices. Several are
21 embarking upon public awareness programs in their
22 reducing distraction and reducing crashes by educating
23 drivers about the consequence of distraction and
24 persuading them to limit associated activities. There

1 are many historical examples of the effectiveness of
2 such public awareness campaigns. Examples would be seat
3 belts, drinking and driving, motorcycle helmets and many
4 non driving related public health initiatives. This
5 historical perspective tells us that this campaign will
6 reduce unsafe behavior associated with electronic
7 devices, however, the effectiveness in terms of people
8 influenced to behave safely, for even with the
9 successful public persuasion program will be in the
10 range of 20 to 25 percent. Therefore, while such
11 endeavors are important and should be supported, they
12 will not be sufficient in and of themselves.

13 From this perspective, I believe that additional
14 laws and enforcement methods aimed at limiting the use
15 of portable devices in moving vehicles may be necessary
16 to provide a complete set of countermeasures to the
17 distraction problem and provide adequate protection for
18 the driving public.

19 Driving distraction associated with the
20 electronic devices has a potential to pose a serious
21 public health risk. Due to this potential risk and the
22 rapid deployment of the technology, quick and decisive
23 action is needed. However, in vehicle devices have also
24 been shown to enhance safety in some cases. Therefore,

1 measured action is also warranted so that solutions
2 enacted with good intent do not stifle the improvements
3 to driving safety. Based upon this logic, I recommended
4 the following:

5 Enhanced support of government and
6 government/industry cooperative research to determine
7 the causes and effects of driver distraction and the
8 promotion of safe electronic technologies. Driver
9 distraction is a complex issue that requires further
10 research to effectively support the rapid evolution of
11 technology development. A critical part of this
12 activity includes the improvement of pre crash and crash
13 data collection methods to better understand distraction
14 as a causal and contributing factor in crashes. It is
15 important that such legislation does nothing to stifle
16 the continued development of technology that can improve
17 driving safety.

18 To continue the support and development of public
19 awareness and persuasion campaigns to lessen the impact
20 of the distraction problems. Such programs can have a
21 positive impact and can be instituted relatively
22 quickly.

23 Consider measured legislation limiting the use of
24 portable hand held devices in moving automobiles. I

1 believe that the use of any portable hand held device
2 should be banned for drivers under the age of 18 years.
3 This wireless device ban should also be passed as a
4 primary offense with consequences. Research has shown
5 that without enforcement of true consequences such a ban
6 will not significantly alter teen drivers' behavior.
7 This measured legislation should also contain a caveat
8 for true emergency situations where it will allow a teen
9 to call 911 without penalty. The extensive research on
10 teen drivers' inability to accurately detect hazards
11 coupled with the knowledge that they are using that
12 they are using these electronic devices while driving
13 will undoubtedly lead to increased crash rates.
14 Teenagers are already overrepresented in fatality rates
15 and we should not let this increase.

16 Again, thank you very much for giving me the
17 opportunity to testify before you on this important
18 issue. I will be willing to answer any questions you
19 have regarding this issue, and please feel free to
20 contact me, if necessary. Thank you.

21 CHAIRMAN MARKOSEK: Dr. Klauer, thank you very
22 much, very interesting testimony. As much as we hear
23 about this, we keep learning some new things. And you
24 helped us do that here today.

1 I would like to ask Representative Jeff Pyle.

2 REPRESENTATIVE PYLE: Thank you, Dr. Klauer. I
3 think we were all sufficiently terrified by the film we
4 saw of the girl distracted, who looked up just in time.
5 My question for you. Technology's growth, what it is,
6 where would you put a GPS unit in that list of portable
7 units that can be carried into a car and used?

8 DR. SHEILA KLAUER: There are several things
9 about GPS units. Again, the portable aspect of it is
10 the dangerous part.

11 REPRESENTATIVE PYLE: Without my GPS, I never
12 would have found this. I get lost frequently.

13 DR. SHEILA KLAUER: It depends on where it's
14 located and how much it takes your eyes off the forward
15 roadway. Those are the true risks that I see of any of
16 those types of portable devices. Anything that takes
17 your eyes off of the forward roadway for greater than
18 two seconds, even a very short period of time, like a
19 six second period, increases your crash perspective time
20 that of an alert driver.

21 So if you're going to use your navigation device,
22 or you feel it improves your safety because you're
23 getting to places

24 REPRESENTATIVE PYLE: I'm not getting lost in bad

1 neighborhoods.

2 DR. SHEILA KLAUER: You need to make sure that
3 it's up as high as it can be and as close to the forward
4 roadway, so that your stand is minimal, and that also
5 reduces the amount of time that your eyes are off the
6 forward roadway. Those are the critical components to
7 what I think is a very unsafe aspect of those type of
8 electronic devices.

9 REPRESENTATIVE PYLE: Very good. Thank you.

10 CHAIRMAN MARKOSEK: Thank you.

11 Representative Mark Longietti.

12 REPRESENTATIVE LONGIETTI: Thank you,
13 Dr. Klauer.

14 If I heard your testimony correctly, part of
15 what's going on right now is there hasn't been
16 sufficient time to research exactly what all the risk
17 factors are. In your testimony you pointed that out.

18 Do you have any thoughts on how much of the risk
19 associated with visual versus cognitive? Have you
20 looked at that or have you had an opportunity to see,
21 quantify that?

22 DR. KLAUER: Yes. The types of studies yes, with
23 the types of studies that we conduct, it's a little bit
24 difficult to measure precisely how many distractions.

1 And I will also argue that even in simulator studies and
2 test track studies, it is very difficult to precisely
3 measure that. But what I think is very interesting in
4 some of our results that we have found is in some of the
5 more typically cognitive tasks have less risk associated
6 with it, than those are typically visual. So those
7 distractions that take the driver's eyes off the forward
8 roadway in our estimation and our calculations
9 demonstrate a much higher risk, than those other tasks
10 than those tasks that are typically more cognitive.
11 So while I can't give you a percentage, I would
12 definitely say that a bigger piece of the problem is
13 definitely visual distraction aspect.

14 REPRESENTATIVE LONGIETTI: So, for example, a
15 piece of proposed legislation like what Representative
16 Shapiro has imposed where a cell phone could be used in
17 the vehicle, but it has to be a hands free situation,
18 whether it's a Blue Tooth or voice activated, if you
19 know, if the legislature were looking to do this on a
20 more incremental basis, that would be a logical first
21 step in your mind because of the visual part of it
22 represents a bigger part of the problem?

23 DR. SHEILA KLAUER: Yes. I would agree with
24 that. With this caveat, there are a lot of hands free

1 devices out there that are not truly hands free. And
2 there are some that are far more hands free. The Blue
3 Tooth with voice activation is a very good technology,
4 as long as the driver is used to it and comfortable with
5 it.

6 Drivers who have their headsets sitting on the
7 seat next to them and when it rings and they're fumbling
8 for that and put it on, and those with headsets that
9 they still have to dial on their regular phone, those
10 are not as, obviously, the visual distraction is still
11 there.

12 But I do agree that a hands free a hands free
13 ban is a really good step in the right direction.

14 REPRESENTATIVE LONGIETTI: Do you have any
15 thoughts on, you know, once again, thinking about the
16 cognitive end of it, a conversation being held on a cell
17 phone, for example, versus conversation with another
18 occupant in the vehicle, do you see any distinction?

19 DR. SHEILA KLAUER: Yes, a very large
20 distinction, actually.

21 REPRESENTATIVE LONGIETTI: Could you explain
22 that.

23 DR. SHEILA KLAUER: For adults, for adult
24 drivers, and this is not teen drivers. Teen drivers is

1 a very different situation. I will explain that, if you
2 would like me to explain it.

3 For an adult driver speaking with adult
4 passengers, we demonstrated that passengers in the
5 vehicle actually showed a protective effect. And we
6 believe that is true because when an adult is driving
7 and they have a passenger in the vehicle, A, they are
8 either driving more safely, or, B, they kind of have
9 what we call a collision avoidance warning system built
10 in, whereas that person has a set of eyes and they can
11 also tell the driver if they missed something, missed a
12 potential hazard.

13 Talking on a cell phone, on the other hand, is an
14 increased risk by 30 percent, of that familiar driver.
15 That risk was not significantly different from an alert
16 driver, statistically speaking.

17 However, when we calculated the number or the
18 percent of crashes and near crashes that access talking
19 on a cell phone, actually, was a contributing factor for
20 it. It was the same as for some of our higher risk
21 conditions, or higher risk tasks. So together, dialing
22 and talking to a passenger, or talking on the cell phone
23 contributed to 6 percent of the crashes and near crashes
24 in the population, in the metropolitan population.

1 So that being said, talking on a cell phone
2 definitely increased risks, but less so than it
3 certainly had an effect as talking to a passenger.

4 REPRESENTATIVE LONGIETTI: So if I understand
5 what you're saying, part of what helps when you're
6 talking to a passenger, is there's another set of eyes
7 in the car?

8 DR. SHEILA KLAUER: We believe so, yes.

9 REPRESENTATIVE LONGIETTI: If you're not seeing
10 what's happening on the road, somebody could say "slow
11 down" or whatever?

12 DR. SHEILA KLAUER: Right.

13 REPRESENTATIVE LONGIETTI: Could you touch on,
14 because we are in some of these pieces of legislation
15 we're making a distinction between teens and adults.

16 DR. SHEILA KLAUER: Right.

17 REPRESENTATIVE LONGIETTI: There's a different
18 sets of rules. You know, I heard your statistic that
19 teens in general have a higher a significantly higher
20 amount of vehicle homicide rates.

21 But can you explain why is it so important for
22 this rule to apply for teens, maybe not as important for
23 adults?

24 DR. SHEILA KLAUER: There's also a lot of

1 research that's demonstrating quite nicely that
2 teenagers are very inexperienced drivers. And part of
3 that inexperience is that they are not very good at
4 detecting hazards. So they drive down the roadway. And
5 we have done some research where we put them on our test
6 track, and have what we call surrogate hazards, one of
7 which is a pedestrian that appears around the front of a
8 van. But the van is parked on the line of the roadway.
9 They don't slow down. They don't veer over into the
10 other lines. They fly right by at 35 miles per hour,
11 even though that passenger could very easily step out in
12 front of them.

13 They simply are not very good at detecting these
14 types of hazard. And so when they're not good at
15 detecting hazards when they're looking forward, and then
16 you couple that with text messaging, so they're only
17 looking up half the time or three-quarters of the time,
18 it increases their risk I think significantly.

19 And once we actually finish our study, our 40
20 Teen Study, I think I will be able to provide a nice
21 research finding for that, but we believe that it's
22 going to be very high.

23 They simply are not good at they're not as good
24 as dual tasking as they think they are. But they

1 that's basically the problem, is that they can't detect
2 hazards and then they're not even looking forward, in
3 the first place. And so that is what increases their
4 risks, much more so than adults.

5 REPRESENTATIVE LONGIETTI: A few other quick
6 questions.

7 In your mind, the age of 18 has been picked as
8 the cutoff. Does that make sense to you? Do you think
9 it should be a different age than 18, if we're talking
10 about this difference, you could be technically 19 and
11 still be a teen. But is there any age cutoff that
12 appeals to you or seems to make sense to you?

13 DR. SHEILA KLAUER: I think 18 makes sense for a
14 lot of reasons, and some of those are legal, at some
15 levels, 18yearolds are legal adults. And they're voting
16 adults. And I think that so on some levels, 18 makes a
17 very good makes a very good cutoff for things like
18 this.

19 Do I think that cell phones should be banned for
20 all adults, yes. But I think that's going to be
21 difficult to pass. So I think

22 REPRESENTATIVE LONGIETTI: Hands free, or a total
23 ban, or a ban only with hands free?

24 DR. SHEILA KLAUER: I think I think somewhere in

1 the list of devices there should be a total ban. But
2 that's my opinion.

3 REPRESENTATIVE LONGIETTI: The last question, and
4 it's kind of a comment. And I know you talked about
5 public awareness, just thinking back of when I was
6 learning to become a driver, I took drivers' education
7 in my high school. And I would hope to think that I
8 would always use a safety belt, regardless, if it seemed
9 like when you develop that habit, that was the first
10 thing that we did when we walked in the vehicle got
11 into the vehicle is we put the safety belt on. And that
12 just carried over naturally.

13 And I'm just wondering if there's something that
14 we could do on that front of the drivers' education
15 front, before you get into the vehicle, you shut off all
16 cell phones or electronic devices, and kind of try to
17 train kids to have that type of habit. I don't know if
18 that makes sense to you?

19 DR. SHEILA KLAUER: Yes. Yes. I think that
20 would be a great habit.

21 REPRESENTATIVE LONGIETTI: Thank you.

22 DR. SHEILA KLAUER: Yes. Thank you.

23 REPRESENTATIVE LONGIETTI: Thank you, Dr.
24 Klauer.

1 CHAIRMAN MARKOSEK: Thank you.

2 Chairman Geist.

3 REPRESENTATIVE GEIST: Thank you. I've read some
4 of your stuff before. It's very well done.

5 DR. SHEILA KLAUER: Thank you.

6 REPRESENTATIVE GEIST: One question. We know
7 that there a lot of things that contribute to distracted
8 driving. But we know that media fixates and some
9 legislators fixate on the cell phone.

10 We know that these are the devices that are
11 inside vehicles. We know that putting on makeup, and
12 there's a whole list of those things that were listed in
13 a couple of the reports. And it might have been on your
14 board cameras that you had one of those listed.

15 DR. SHEILA KLAUER: Yes, we did.

16 REPRESENTATIVE GEIST: And if I remember right,
17 cell phone usage was pretty far down the list compared
18 to some of the other things.

19 DR. SHEILA KLAUER: Talking with talking on the
20 cell phone was in the middle.

21 REPRESENTATIVE GEIST: Yeah. I mean, eating
22 fast-food, you know, doing some of these things was way,
23 way up there.

24 How in the world do you ask a legislature to

1 legislate common sense? And then how do you make that
2 whole list as responsible as just, for instance, those
3 who like to beat up on cell phones?

4 DR. SHEILA KLAUER: While talking on a cell phone
5 was somewhat lower than other tasks, it still
6 contributed to a much higher percentage of the crashes
7 and near crashes in the population.

8 I think that all wireless devices should be
9 legislated to a certain degree, because of those
10 findings. It wasn't just simply the actual risk or the
11 relative risk, but it was also that percentage of
12 crashes and near crashes, it was a contributing factor
13 to in the population.

14 Part of the reason that I believe it is
15 contributing to that many crashes and near crashes in
16 the population is because of the amount of time that
17 drivers are actually engaging in cell phone
18 conversations while they're driving. And it's happening
19 more frequently. It happens for longer periods of
20 time. And it's happening people are getting more and
21 more comfortable with it, and they're doing it at times
22 when they shouldn't be.

23 There are times when you're driving and I'm
24 originally from South Dakota. I could drive on the

1 interstate in South Dakota and maybe, you know, five
2 five other vehicles will pass me on the other side of
3 the interstate for an hour.

4 REPRESENTATIVE GEIST: Unlike the Parkway I just
5 came on.

6 DR. SHEILA KLAUER: You know, talking on a cell
7 phone in those very, very sparse traffic situations I
8 don't think is an issue.

9 But when people get more and more comfortable,
10 and technology is, you know, in their car and they're
11 using it all the time, they're doing it in moderate to
12 high speed levels of traffic. They're doing it while
13 they're trying to navigate through intersections and
14 busy urban areas. They're doing it while they're
15 merging on to busy freeways. And that's when it gets
16 very dangerous, because they're not able to look.
17 They're not able to attend to everything that they need
18 to tend to.

19 REPRESENTATIVE GEIST: Go back to the question,
20 the list, the long list of listed distractive driving

21 DR. SHEILA KLAUER: Yeah.

22 REPRESENTATIVE GEIST: How do you legislate to
23 really cover all of that? I mean, how do you tell them
24 they can't put makeup on while they're driving? How can

1 you tell people they can't eat when they're driving? I
2 mean, how do you legislate in car activity to the point
3 that it's enforceable or workable law?

4 DR. SHEILA KLAUER: I think you need I don't
5 think you should worry about the whole list. I think
6 you should worry about those types of tasks that are
7 actually that are actually contributing to a high
8 percentage of the crashes and near crashes. And those
9 are those tasks that are primarily involving wireless
10 devices.

11 REPRESENTATIVE GEIST: With turning on and off
12 your light bar, stuff like that, would that it's an
13 inside job. Thank you very much. That's all I wanted
14 to know.

15 We just have to learn how to do some kind of a
16 reasonability, rather than a rifle shot at one thing.

17 CHAIRMAN MARKOSEK: Representative Josh Shapiro.

18 REPRESENTATIVE SHAPIRO: Thank you, Mr.
19 Chairman. And Chairman Geist alluded to members who are
20 fixated on the cell phone issue. I think I'm one of
21 those members that perhaps that he was referring to.
22 And I do think your testimony was spot on in that there
23 may be other distractions happening in the car. But the
24 cell phones are really leading to these crashes. And I

1 heard you testify that you would want to see a full ban
2 of cell phones while driving. That's certainly not my
3 position. I appreciate where you're coming from, but I
4 just want to clarify something that you said. I believe
5 you said that the most dangerous way to have a cell
6 phone conversation is using a hand held, holding it in
7 your hand up to your ear.

8 The better way to do it would be on a hands free
9 device. And then the best way to do it would be on a
10 hands free device that's optimized with voice dialing
11 and other things that make you have to touch your phone
12 even less; is that correct? I just wanted to make sure
13 I understood you said that.

14 DR. SHEILA KLAUER: Well, with one little
15 caveat. The best way, if you're going to have
16 conversations, the best way is to do everything voice
17 activated, so that the eyes never have to come off the
18 road. It is far more for me, the dangers are far more
19 or the risks are higher when drivers take their eyes off
20 the forward roadway. So if with hands free devices, a
21 truly hands free device, I believe that is the safest
22 and the best way to have a cell phone conversation in
23 the car.

24 REPRESENTATIVE SHAPIRO: So with a hands free

1 device, we can reduce the risk of accidents over a
2 handheld device and still allow a driver to carry on a
3 conversation, if he or she wishes to?

4 DR. SHEILA KLAUER: Yes, provided but I do want
5 to reiterate what I said earlier in that that by hands
6 free device is not the driver who has their hands the
7 headset on the seat next to them

8 REPRESENTATIVE SHAPIRO: Oh, correct.

9 DR. SHEILA KLAUER: And it rings.

10 REPRESENTATIVE SHAPIRO: Using one properly.

11 DR. SHEILA KLAUER: The proper use of a headset
12 is imminent.

13 REPRESENTATIVE SHAPIRO: And that makes the
14 conversation safer?

15 DR. SHEILA KLAUER: Yes.

16 REPRESENTATIVE SHAPIRO: Thank you, Mr.
17 Chairman.

18 CHAIRMAN MARKOSEK: Okay. Dr. Klauer, thank you
19 very much. You did a wonderful job and helped us define
20 the interesting task we have ahead of ourselves. And
21 thank you very much. I appreciate you traveling this
22 far to come here today. Thank you.

23 DR. SHEILA KLAUER: Well, thank you for the
24 opportunity. I appreciate it.

1 CHAIRMAN MARKOSEK: Thank you.

2 Our next person to testify. He and I were
3 talking beforehand. No, he's not the famous hockey
4 player. His name is actually spelled slightly
5 different, I believe, but Matthew Sundeen is the program
6 principal of the national conference of state
7 legislatures. And, Matt, welcome to Pittsburgh and
8 thank you for attending. And you may proceed, whenever
9 you're ready.

10 MR. SUNDEEN: Thank you, Mr. Chairman.
11 I actually wonder how often the famous hockey player
12 gets asked if he does policy analysis? I sort of
13 suspect no.

14 CHAIRMAN MARKOSEK: The next time I see him I'll
15 ask him.

16 MR. SUNDEEN: Okay. Thank you.
17 Thank you members of the committee. And it's a pleasure
18 to be before you again. As you recall, I was with you
19 in Philadelphia, about a year ago. And as many of you
20 know, I'm a native of Pennsylvania. So it's always a
21 pleasure to come back, I'm from Yardley Pennsylvania,
22 the other side of the state.

23 But thanks, once again, for having me in front of
24 the committee.

1 What I want to talk to you about is kind of give
2 you the national picture on distracted driving
3 legislation. And, actually, I'll respond to some of
4 Chairman Geist's questions about some of these other
5 broader distraction laws that are out there.

6 If we could go to our first slide, Mark, the
7 question is why is distracted driving such an important
8 traffic safety topic? You could see some of the figures
9 up there. Some of these actually come from Virginia
10 Tech, and the study that Dr. Klauer did. You could see
11 nationally 80 percent of crashes and approximately 60
12 percent or 65 percent in near crashes have some form of
13 driver inattention as a causal factor. It may not have
14 been a primary factor, but it factored in the accident.
15 And if you look at the numbers there, fairly significant
16 traffic safety numbers nationally, with more than 34,000
17 fatalities; 2.1 million injuries, and a very significant
18 amount of traffic damage as a result of driver
19 inattention.

20 Go to the next slide.

21 The question is how significant is driver
22 distraction for lawmakers? And thank you.

23 If you look over the last five years, every
24 single state has considered some sort of driver

1 distraction legislation. Just in 2000, there were 44
2 states that considered a 145 bills related to driver
3 distraction. And this year alone, there are already 28
4 states that have driver distraction bills. So,
5 obviously, at the state legislative level, it's a
6 significant traffic safety issue.

7 It has also been a significant issue at the local
8 level, with more than 300 local jurisdictions
9 considering legislation. At the federal level, not so
10 much a significant issue yet.

11 At a personal level for me at NCSL, this is a
12 very popular issue. You see more than 25 percent of the
13 hits on our website are on our transportation page, are
14 on our driver distraction related documents. And it's
15 really the number one issue that we answer in our
16 transportation program.

17 And if you think about all of the other
18 transportation issues we have, I know here in
19 Pennsylvania, funding is a very significant issue for
20 you. But believe it or not, we get more questions on
21 driver distraction than we get on transportation
22 funding. So it's a very significant issue for us at
23 NCSL.

24 If you go to the next slide. Why is driver

1 distraction a big issue? And as it was pointed out by
2 the committee, we've had driver distraction since we've
3 had cars. There's a virtually limitless list of things
4 that could distract us, including things as abstract as
5 our own personal thoughts, but certainly, people on the
6 road, other drivers, eating, drinking, but, really, the
7 driver distraction issue has become an issue in state
8 legislatures because of the growth of technology in our
9 motor vehicles.

10 If you think about it, not a decade ago, less
11 than a million people actually had cell phones. And
12 most of those were those sort of shoe boxlike devices
13 that people couldn't really carry around.

14 Well, now there's more than 254 million
15 subscribers of cell phone services in the United
16 States. A large number of those phones or most of those
17 phones are very portable devices that can go into our
18 cars. And it's estimated that 50 to 75 percent of
19 people use their phone while they're driving.

20 There's also been a growth in the complexity of
21 the phone, where now phones can do all sorts of things,
22 take pictures, take videos. You can have inboard
23 navigations devices, on board computers in your car;
24 pretty much anything that you can do in your home or in

1 your office, you can do in a car.

2 And as a consequence I think that's made driver
3 distraction a much bigger issue.

4 As driver distraction has become a bigger issue,
5 we see a lot of interests in these other type of
6 distractions that Chairman Geist was talking about.

7 Two years ago, Nationwide Insurance did a survey
8 to try to get a perspective on this. And this, I would
9 point out is sort of a clean list of things that are
10 described in the car. The daydreaming, fixing their
11 hair, text messaging, other bizarre behaviors. Like I
12 don't know how you could paint your toenails while
13 driving. But, again, this is the clean list. There are
14 other behaviors that people fessed up to in the car,
15 which I think would be much more technically difficult
16 than the ones described here.

17 Go to the next slide.

18 The real question here is which distractions are
19 the most dangerous? And sort of you see the whole range
20 of spectrum behaviors in this car that's in here.

21 If you would go to the next slide.

22 Talking about phones. And our phone is the most
23 dangerous activity in the car. And really, if you look
24 at the crash data that are out there, they don't answer

1 the question. It's unlike some of the other traffic
2 safety issues that have come up in recent years, like
3 drunk driving and seat belts, where there's a wide body
4 of crash statistical or statistics out there to answer
5 the question.

6 For cell phones, there's not this data stream
7 that we can tap to answer the question of whether phones
8 are dangerous in the car.

9 And, first of all, only a handful of states have
10 published any sort of data related to cell phone
11 involvement in motor vehicle crashes. You see the
12 states listed up there.

13 The thing I would like to point out is a lot of
14 those are fairly limited studies. They were pilot
15 programs, maybe a one year type of study. We don't have
16 a multiyear study yet based on crash statistical
17 analysis to answer whether cell phones are involved in a
18 motor vehicle crashes or not.

19 The data that has been published seem to indicate
20 that cell phones are involved in less than one percent
21 of motor vehicle crashes. But I think there are a lot
22 of questions about data and the reliability of the
23 data.

24 If you think about it, cell phones aren't like

1 drunk driving or seat belts where there's a physical
2 indicator that the cell phone was in use at the time of
3 the motor vehicle crash.

4 Instead, with cell phones a lot of times law
5 enforcement will have to rely on self reporting by the
6 driver, or perhaps a witness reporting. But I think
7 it's that self reporting that makes the data sort of
8 suspect. You're asking the driver to admit that they
9 were using a phone, and because of that, they were
10 involved in a motor vehicle crash.

11 And there was a report done by the California
12 Highway Patrol that really, I think, pointed this issue
13 out, where they did a report to the state legislature.
14 And they had a very low cell phone involvement in the
15 motor vehicle crashes.

16 Later the LA Times came in and examined the same
17 exact data that the CHP did, and found a different rate
18 of cell phone involvement in the crash. And, it,
19 really, pointed because of that, a study by the LA
20 Times, CHP had to go back and revise their statistics.
21 So there's really a lot of questions about the crash
22 data.

23 If you go to the next slide.

24 REPRESENTATIVE GEIST: Could I ask you a question

1 what you're

2 MR. SUNDEEN: Sure.

3 REPRESENTATIVE GEIST: When you break that out,
4 that data, does texting count the same as talking?

5 MR. SUNDEEN: I don't know of any states that
6 have broken it down by texting. And that's a lot of the
7 problem in the crash data. I'll talk a little bit about
8 it further in my

9 REPRESENTATIVE GEIST: If you could look into the
10 development in that, if you could.

11 MR. SUNDEEN: Yeah, I'll talk about it further in
12 my presentation, but I don't know of any states that
13 have broken it out from texting to just using the cell
14 phone.

15 So given the suspect nature of the crash data, we
16 have to look at some of the academic studies that are
17 out there. And there's a number of them.

18 And one of them I've listed Dr. Klauer's study
19 from Virginia Tech. But there are a number of studies
20 out there that seem to indicate cell phones create a
21 greater risk of crash. Probably the ones with the
22 biggest tag lines are the ones from the University of
23 Toronto in 1997, and a more recent one from published
24 by the Insurance Institute for Highway Safety had a tag

1 line that drivers were four times more likely to be in a
2 crash if they're using a cell phone, which is
3 incidentally the same rate as legal intoxication. So
4 there's a number of studies out there on the you know,
5 cell phones are risky.

6 But if we go to the next slide. There are a
7 couple of studies that seem to indicate that cell phones
8 are a less of a risk. And so I wanted to point out
9 there's some conflict in the academic community on this
10 issue.

11 If we'd go to the next slide. I think it's
12 important to know where the public stands on this. This
13 is a survey done by Gallup back in 2003, which seems to
14 indicate that although most people or many people use
15 cell phones in their car, a lot of people seem to
16 support some sort of restriction on the cell phone use
17 in the car, and realize that using their cell phone is
18 distracting and could be dangerous in the vehicle.

19 If we go to the next slide, we get a chart here on state
20 legislation. And, again, if you look at the last seven
21 or eight years, every single state has considered some
22 sort of legislation or related to cell phone use in the
23 car. And the number of states that are passing
24 legislation continues to grow.

1 Where if we go to the next slide, and look at the driver
2 distracted laws, there are now 29 states and the
3 District of Columbia that have passed some sort of law
4 related to cell phone use in the car.

5 Now, I frequently hear in the media this
6 mischaracterized as a ban on cell phones in the car.
7 Channel 4 left the room, so we can't set the record
8 straight with them, but I think really there's no state
9 that prohibits all sorts of cell phone devices in the
10 car. So there's no total prohibition law out there.

11 There are a number of states that have laws where
12 the handheld phone is the primary focus. A number of
13 states have laws related to young or novice drivers.
14 There are a few states that have laws related to texting
15 while driving. And then there's a variety of other cell
16 phone issues. So I'll go into this in a little more
17 detail.

18 If we go to the next slide. The first issue to
19 talk about is the prohibition on the handheld phone, at
20 which gets at Representative Shapiro's bill. There are
21 now currently six states that have prohibitions on the
22 use of the handheld phone in the car, although my caveat
23 there is that California's law will become effective in
24 July of 2008; the other states, Connecticut, New York,

1 New Jersey, Utah, and Washington, as well as the
2 District of Columbia.

3 The thing to point out, Washington enforced it as
4 a secondary offense. New Jersey just changed that on
5 Saturday, actually, and now New Jersey will change it
6 from a second enforcement to a primary enforcement
7 bill.

8 This is really the primary law that we see
9 considered in the state legislatures. And back in 2001,
10 24 states considered some sort of handheld prohibition.
11 You have 18 states considering that this year.

12 If you go to the next slide. Handheld
13 prohibitions are also being considered fairly
14 extensively at the local level. And I think that's
15 something important to consider in Pennsylvania.

16 If you look at the jurisdictions up there, the
17 two biggest local jurisdictions are Chicago and Santa
18 Fe. Miami Dade County's prohibition was superceded by
19 state law, or preempted by the state law.
20 But there are a number of local jurisdictions in eastern
21 Pennsylvania that also have this prohibition on a
22 handheld phone.

23 It's important to note that there was a court
24 decision related to one of those local prohibitions. And

1 there's some question whether state law in Pennsylvania
2 actually preempts the local jurisdiction.

3 If we go to the next slide.

4 You need a microphone?

5 CHAIRMAN MARKOSEK: Excuse me. One is for the
6 PCN, our television and the one is for the room.

7 MR. SUNDEEN: Okay. Go to the next slide. The
8 question is are handsfree devices effective. And you
9 see here the sort of low tech handsfree device.
10 But if go to the next slide, you talk about the hands
11 free technical solution. There are many types of
12 handsfree devices, since it was pointed out in the last
13 discussion that we had, and sort of intuitively, we
14 think about, you know, hands free makes it safer. You
15 certainly do have more control of the vehicle. You
16 eliminate some of the physical distractions, like
17 searching for a ringing phone with some of those types
18 of devices. And certainly, handsfree is more
19 politically palatable than those total prohibition type
20 of bill. I think that's been borne out in the other
21 states that have laws.

22 A lot of the studies seem to think or seem to
23 indicate that the cognitive distraction is really the
24 key. And many of the studies find very little

1 distinction between the hands free and a handheld, in
2 terms of the potential distraction.

3 There's also some potential distraction from some
4 of these voice activated devices, from having to think
5 on how to interact with that type of device. So I think
6 that's something for you to consider.

7 If you go to the next slide. A lot of the focus
8 for this hearing has been on younger drivers and the
9 phone. And I think any of you who have a teen driver in
10 your house know that teen drivers are not the best
11 drivers.

12 Certainly, we saw that in Dr. Klauer's video.
13 And I think, you know, that's very it has been clear
14 from the crash data that we have and the statistics we
15 have.

16 A lot of reason for that is teen drivers are less
17 experienced. They have more distractions in the
18 vehicle. And they're more likely to take risk.

19 I think a lot of, especially male teen drivers
20 like to try to show off as they're driving. And motor
21 vehicle crashes are the leading cause of death for
22 teens. So something as a very considerable traffic
23 safety issue is to think about as the younger drivers,
24 particularly younger drivers on the phone, I think is a

1 very significant issue, where teenage drivers or drivers
2 between the ages of 16 and 24 are twice as likely to use
3 a phone as other drivers. So I think when we're talking
4 about phones in the motor vehicle, teens are a very
5 important part of that issue.

6 If we go to the next slide. When we look at the
7 state laws that are out there related to young or novice
8 drivers on the cell phone, I think there's a couple of
9 things to note here. First of all, generally these
10 bills in the state legislature get very limited
11 opposition. I think a lot of people agree that teen
12 drivers are more risky. And, frankly, U.S. legislators
13 that your teen lobby probably isn't that strong. Still,
14 a lot of these bills make their way through the
15 legislature pretty easily.

16 There's also a recommendation made by the
17 National Transportation Safety Board where they
18 recommended that states should implement restrictions
19 for teen drivers use of the cell phone.

20 17 states and the District of Columbia currently
21 have laws related to teen driver use. At least two of
22 those states, California and Maine, have prohibitions on
23 all teen drivers, and prohibit them from using all
24 types of cell phone devices.

1 Now, Dr. Klauer tells me that's true in the State of
2 Virginia as well. I didn't have them on my list. I'll
3 have to check that.

4 But there are 15 states currently that have
5 restrictions on teen drivers that tie in to drivers with
6 only an instructional permit or a learner's permit type
7 of device. For those types of drivers, they are
8 prohibited from using any type of cell phone device, not
9 just restricted to the handheld phone.

10 A number of states are considering legislation or
11 have considered legislation related to younger driver
12 use of cell phones. 16 states in 2008 are reconsidering
13 that type of bill.

14 If we go to the next slide. And specifically
15 talk about texting while driving. I think this is
16 probably the number one driver distraction issue I face
17 this year. It has been a very popular issue in the
18 state legislatures, and certainly, within the media.
19 And if you look at the numbers for it, it's estimated
20 that there are approximately 158 billion text messages
21 sent each year. It's unknown how many of those are done
22 while driving. But a significant number of drivers
23 admit to texting while they're in the car. And a lot of
24 those drivers are the younger drivers.

1 You see there the statistics; 66 percent of
2 drivers between 18 and 24 text while driving. I don't
3 think this is limited to younger drivers, but certainly,
4 they are a key part of the texting while driving issue.
5 There are only two states currently that specifically
6 prohibit texting while driving. Those are New Jersey
7 and Washington, although there are 21 states considering
8 bills this year.

9 REPRESENTATIVE PYLE: Question.

10 MR. SUNDEEN: Sure.

11 REPRESENTATIVE PYLE: Well, I know that New
12 Jersey just put theirs into effect last Saturday. How
13 long has Washington had their ban on text messaging?

14 MR. SUNDEEN: They just passed it last year.

15 REPRESENTATIVE PYLE: So there are really no
16 arrest statistics?

17 MR. SUNDEEN: Not for the texting. For the cell
18 phone use while driving, there are some arrest
19 statistics. And I believe I've got a slide a little bit
20 later on, I could talk about that.

21 REPRESENTATIVE PYLE: Thank you.

22 MR. SUNDEEN: So we should be on the slide that
23 let me make sure if we're on the right one.

24 If you go to the next slide. Then there are a

1 variety of other cell phones laws that are out there. A
2 number of states try to address school bus drivers using
3 cell phones. There are a number of local preemption
4 textual laws where the state legislatures preempted local
5 jurisdictions from acting. Then there is some
6 miscellaneous provisions. Of course, my favorite here
7 is Massachusetts requires that you have one hand on the
8 steering wheel at all times while using a cell phone.

9 REPRESENTATIVE GEIST: Elbows don't count?

10 MR. SUNDEEN: Elbows and feet don't count,
11 apparently. So although Massachusetts is actually
12 looking at changing to that requirement. If we go to the
13 next slide, and talk about some of the other
14 distractions. And this I guess was getting at your
15 question, Mr. Chairman.

16 There are now states taking an interest in all of
17 these other behaviors in the car. And you could see the
18 list of states up there. Connecticut, Utah, Washington
19 and the District of Columbia all have laws targeted
20 towards this broader range of distraction. And the way
21 that they worded it is they prohibit distraction
22 unrelated to the operation of the motor vehicle. And,
23 you know, they've got different kind of phrasings within
24 the law. But I think a number of states are looking at

1 trying to get at this whole broader range of
2 distractions, whether eating or writing, reading the
3 paper, that type of thing.

4 We also have a number of states that are very
5 interested in the television screen and the navigation
6 systems in the car. The reason that the navigational
7 systems are an issue here is when you talk about
8 prohibiting a television or the placement of a
9 television screen, well, a lot of these navigation
10 systems kind of look like a TV. And so you have to be
11 real careful about how you word the law to exclude some
12 of the navigation systems or other safety devices from
13 that prohibition or restrictions. So I think you find
14 with a lot of these TV types of laws, they have an
15 exclusion for navigation systems.

16 There have also been laws related to DVD
17 players.

18 And then, finally, Tennessee passed a law related
19 to the type of video that you could watch in the car.
20 You could use your imagination of which types are
21 prohibited from a motor vehicle.

22 If you go to the next slide. The question of
23 data collection. I think this is a rising issue in the
24 state legislatures. As I mentioned, there are not a lot

1 of crash statistics published out there on the cell
2 phone issue. I think that's changing. We now have 29
3 states that are collecting crash data related to cell
4 phone involvement in motor vehicle crashes.

5 There are a number of state studies that have
6 been done related to the cell phone issue in the car.

7 And then, finally, we have what are known as the
8 Model Minimum Uniform Crash Criteria, or MMUCC for
9 short, which are sort of national crash statistics
10 standards that are developed by a number of national
11 organizations.

12 Well, a couple of years ago, those were changed
13 to include studies involvement in motor vehicle
14 crashes. And so now you see states adopting this MMUCC
15 model. And I think we'll see more information collected
16 about the cell phone involvement in motor vehicle
17 crashes.

18 If we go to the next slide. And the question was
19 asked about enforcement. We don't have a lot of
20 information about enforcement. But we do have some.
21 The best experience has been in New York. Best, I mean,
22 you know, the most data collected. I don't know if it's
23 best if you're one of the drivers ticketed.

24 But the latest statistics I saw from New York is

1 from 2001 through 2006. They issued approximately one
2 million citations for using a cell phone while driving.
3 And talking to a law enforcement officer in New York, it
4 said that enforcement really wasn't an issue. In some
5 cases, it was sort of a shooting fish in a barrel.

6 So I think the experiences in New York and D. C.
7 Have been that enforcement hasn't been an issue. The
8 real question is the effectiveness of it.

9 And it seems the drivers to a certain extent
10 altered the behavior when the law was passed, but they
11 went back to their original behavior months after the
12 law was passed.

13 If you go to the next slide. I could talk
14 briefly about driver education. I have some more
15 interesting driver education.

16 AAA I know will be here up after me, published a
17 study in 2003 to see how many driver education manuals
18 included cell phone use in them. Most states did not
19 have some sort of distracted driver component in their
20 cell phone or driving component in their driver
21 education manuals. Some of this may be changed. And
22 last year Illinois passed a driver education
23 requirement. And we're beginning to see nationally more
24 bills being proposed with some sort of driver education

1 component.

2 If we go to the next slide. The state trends. I
3 think real briefly to talk about the I think the novice
4 issue and the texting while driving issue are the real
5 big issues right now. We see a lot of states
6 considering this and it's coming up in bills. And I
7 think we'll continue to see more information about
8 that.

9 We could talk more detail, although there have
10 been a number of now court cases related to cell phone
11 use in the car. And I think that may push the
12 legislation nationally as well.

13 If you go to the next slide. I mentioned several
14 actions. There really has been no federal action. I
15 know the National Highway Traffic Safety Administration
16 has considered regulations, but they've done nothing so
17 far. They've been studying the issue.

18 I mentioned there was a bill back in 2003 by then
19 Senator Corzine. That really went nowhere in Congress.
20 And I think until you see federal government
21 legislation, you won't see any regulations as to this
22 topic right now.

23 If we go to the next slide, International
24 Activity. I think it's important to note there are a

1 number of countries that have restrictions on cell phone
2 use in the car. And that's something we sort of have
3 been tracking as well.

4 And then our final slide is sort of the NCSL
5 resources. We've done a lot of research on this issue.
6 We have a number of resources on our website. I would
7 invite you to go to our website. We have a legislative
8 tracking database where you could find the latest state
9 legislation, links to the bills, bill sponsor
10 information, status information, and that type of
11 thing.

12 And then finally, the final last line, contact
13 information. And I am happy to take any questions from
14 the committee.

15 CHAIRMAN MARKOSEK: Thank you very much. I
16 apologize for not recognizing Representative Chelsa
17 Wagner has arrived, and joined us. Welcome, Chelsa.
18 Representative Chairman Geist.

19 REPRESENTATIVE GEIST: I have some questions. I
20 do informal surveys at times. And I have a bunch of
21 nephews that are in high school sports and national
22 merit scholars and all kind of things. And I bounce a
23 lot of this stuff off of them and others.

24 I kid them about trying, you know, texting and

1 driving with the diablos. But they say that it's much,
2 much more than texting now, that they're on the Internet
3 and they're blogging, and they're on UrTube or UTube,
4 all of these different teenage sites, and they're doing
5 that, and at the same time talking on the speaker
6 phone. So it goes way, way, way beyond holding a cell
7 phone to your ear, which I don't really believe is
8 nearly as dangerous as some kid looking like he's
9 looking down a gun sight trying to drive while he's
10 texting Jeff Pyle.

11 REPRESENTATIVE PYLE: A lot of them do that, Mr.
12 Geist.

13 REPRESENTATIVE GEIST: This whole business of
14 what is available on your palm, or you guys that have
15 their crackberries.

16 REPRESENTATIVE PYLE: Crackberries.

17 REPRESENTATIVE GEIST: This is an addiction.

18 MR. SUNDEEN: I think, Mr. Chairman, that that is
19 absolutely true, and I think anybody who has been in a
20 car lately knows this. You talk about informal surveys,
21 and oftentimes, we'll lead off a discussion taking a
22 survey of the room and saying, well, how many people are
23 on the cell phone? And we could do that now. How many
24 people are on the cell phone, just raise their hand. I

1 think probably most of the people here. And how many
2 use it while driving? I would say a significant number
3 of you. And you're right, now that the cell phones are
4 so much more sophisticated, there's many more things
5 that you could do in the car, you know, that you
6 couldn't do ten years ago. And that's why I think
7 you're seeing so much state legislation is legislators
8 are really trying to catch up with this issue.

9 And, you know, if you're behind a driver who has
10 got their hand in their ear and they're slowing down
11 erratically, you know what they're doing. You know, I
12 think because of the high visibility of the cell phone,
13 it has become such an issue.

14 REPRESENTATIVE SHAPIRO: Let's talk about
15 enforceability. I can remember many, many years ago in
16 the General Assembly when the speed limit was dialed
17 down to 55 miles an hour in Pennsylvania. No
18 legislature ever broke that speed limit, but an awful
19 lot of other Pennsylvanians voted with their right foot,
20 which made the law absolutely useless.

21 In New York, you see how many arrests that they make,
22 yet they show no impact as to decrease in accidents,
23 based upon the arrests made with cell phones.

24 How do you go about doing something other than

1 with education, when enforcement is really the last
2 resort?

3 MR. SUNDEEN: I don't know if I have a good
4 answer for you on that question.

5 REPRESENTATIVE GEIST: I know I don't know.

6 MR. SUNDEEN: Yeah. I know a lot of the sponsors
7 of the bill, and Representative Shapiro could correct me
8 if I'm wrong. But in some of the other states, I think
9 a lot of the sponsors have said, "Look, we need to start
10 tackling this issue." And, you know, for them, it's
11 sort of been a foot in the door on addressing the issue
12 of these various technologies in the car.

13 And as I mentioned in my remarks, I think it's
14 really this focus on the cell phone has now brought
15 attention to this whole range of behaviors in the car,
16 and made more people aware of it.

17 I'm not sure what the best solution is. But
18 certainly, it's a much bigger issue in the states now
19 than it was ten years ago.

20 REPRESENTATIVE GEIST: One of the things we could
21 outlaw fast-food lanes in these places. Because do you
22 ever watch people pull out in traffic and unwrap food
23 and start eating it going down the road? That scares
24 the devil out of me, just to watch it happen.

1 MR. SUNDEEN: Sure.

2 REPRESENTATIVE GEIST: And they pull out of the
3 convenience store and there will be coffee things that
4 are all over the place. And this is distracting
5 driving. And this is what I think really needs to be
6 addressed in total.

7 MR. SUNDEEN: Sure.

8 CHAIRMAN MARKOSEK: Thank you.

9 Representative Pyle.

10 REPRESENTATIVE PYLE: A question, Matt. Your
11 studies of all the states in the nation, how many other
12 states are using the integrated approach? What I'm
13 referring to this enhanced driver's ed education. And I
14 know a lot of insurance companies that insure these
15 younger drivers will frequently, you know, contact folks
16 like us and say, you know, can we do something to
17 arrange this before this kid hops behind the wheel at
18 the age of 16, can we make sure they are better
19 educated?

20 And a few years ago we changed that. Now it's
21 pretty much 16 1/2. I think it's about that.

22 Are any other states making an effort in that
23 integrated approach of enhanced drivers' ed pertaining
24 to cell phone distractions while driving or not?

1 MR. SUNDEEN: I believe more states are taking a
2 look at the cell phone issue and trying to incorporate
3 it in their driver education. I think that's sort of
4 been a slower process. And frankly, we more tract the
5 legislation, and we haven't seen a lot of legislation on
6 drivers' education, you know, although I think that is
7 growing. But I do think, you know, state driver
8 education programs are trying to talk more about the
9 driver distraction issue.

10 And, actually, another place where we're seeing
11 it is in the private sector. We get quite a few calls
12 from companies who want to incorporate information about
13 driver distraction in their company policies, to
14 prohibit their drivers from using a phone while on
15 company time, or on company property, that type of
16 thing. And so that's another place where we've seen
17 sort of this integrated approach that you're talking
18 about.

19 REPRESENTATIVE PYLE: Very good. Thank you.

20 CHAIRMAN MARKOSEK: Thank you.

21 I just had one question myself, and it's relative
22 to the portion of your testimony, Matthew, that you had
23 mentioned that we don't have a lot of feedback yet
24 relative to distracted the cell phone use. It didn't

1 appear that cell phone use was the cause of very many
2 accidents, but then I think you if I recall your verbal
3 testimony, had mentioned something about the fact that
4 we're getting better as we move along, and getting more
5 data relative to that particular issue.

6 So even though we don't have a lot of data that
7 says that cell phones cause accidents, is it in your
8 opinion that as we move forward and collect data in a
9 more efficient manner that that particular distraction
10 will grow as a cause of accidents?

11 MR. SUNDEEN: It's hard to say. I think where
12 we've seen improvement is in the number of states that
13 are collecting data. Where within the last five years
14 or so, we've seen 15 to 20 more states begin to collect
15 data on their accident report forms related to
16 distracted driving and cell phone involvement in motor
17 vehicle crashes.

18 We also see law enforcement officers more aware
19 of this issue, and at the crash scene investigating the
20 issue.

21 Where the concern is you still have, you know,
22 questions about can you actually reliably get that
23 information at the crash scene? And I don't know if
24 there's an answer to that question yet.

1 I think we've seen a lot more academic studies on
2 this issue. We've seen more studies like the one at
3 Virginia Tech where they're trying to actually get
4 information about the driving environment. So it's hard
5 to say what that will tell us, but certainly, we are
6 getting more information.

7 CHAIRMAN MARKOSEK: Isn't there a way that the
8 law enforcement folks can get data relative to when any
9 of us happen to be making a call and the time of that
10 call, and they can match that with an accident
11 situation, to determine, you know, if somebody was using
12 their cell phone at the time of an accident?

13 MR. SUNDEEN: You know, that's an issue that's
14 been discussed. And I know in some of the studies that
15 have been done, most notably the one that was done at
16 the University of Toronto, they did do that; they
17 matched time of the call to the accident to get their
18 crash data.

19 I haven't seen that was done on a statewide
20 level. I imagine there are probably some concerns about
21 privacy, and things like that. But I have not seen any
22 state pass legislation to authorize that yet.

23 CHAIRMAN MARKOSEK: Okay. Thank you very much.

24 MR. SUNDEEN: Thank you.

1 CHAIRMAN MARKOSEK: Wonderful testimony again.
2 Thank you for traveling here today.

3 REPRESENTATIVE GEIST: You did a really good job.

4 MR. SUNDEEN: Thank you.

5 CHAIRMAN MARKOSEK: The next person on the
6 agenda, Mark Fox, I'm told is not here.

7 So we will move to our friend, Brian Newbacher,
8 the Director of Public Affairs from AAA Ohio Motorist
9 Association.

10 Brian, welcome.

11 Somebody that I've worked with in the past. AAA
12 has been out front on distracted driving issues, and
13 we're happy to have you here today.

14 MR. NEWBACHER: Thank you, Mr. Chairman.

15 CHAIRMAN MARKOSEK: You may proceed when you're
16 prepared.

17 MR. NEWBACHER: Thank you, Mr. Chairman.

18 Mr. Chairman, Chairman Markosek, Chairman Geist,
19 members of the committee. As the chairman noted, I'm
20 Brian Newbacher, Director of Public Affairs with AAA
21 Central, a member of the Federation of Pennsylvania AAA
22 Clubs. And today I'll talk about some of the dangers
23 young drivers face, what that means for the rest of us
24 and what AAA believes can be done to better protect

1 Pennsylvania's motorists.

2 I also will highlight what other states have done
3 to reduce the number of crashes involving teen drivers,
4 and we'll focus on states that AAA believes are worthy
5 of duplication.

6 But first, I would like to take this opportunity
7 to thank the General Assembly and this committee for its
8 leadership in creating Pennsylvania Graduated Driver
9 Licensing Program. The Commonwealth's minimum age of 16
10 years for a junior license and a six-month holding
11 period before proceeding to the intermediate stage,
12 place it among just a handful of states in the top tier
13 for these requirements. The states are Kentucky,
14 Massachusetts, New Jersey, New York, and Rhode Island.
15 And that's indicated on the chart that you have titled
16 GDL Laws, which I'll refer to a couple of times during
17 my testimony.

18 Despite the success of GDL programs thus far,
19 teen crashes remain a major safety issue, and not just
20 for the young person behind the wheel. According to a
21 AAA analysis conducted two years, 1,067 citizens lost
22 their lives over a ten-year period in crashes in
23 Pennsylvania that involve the teen driver. Two thirds
24 of those lives lost were people other than the driver,

1 including their passengers, people in other cars and
2 pedestrians. So it's important to understand this
3 problem potentially affects everyone.

4 Graduated licensing does save lives but
5 comprehensive GDL programs save even more lives. The
6 AAA Foundation for Traffic Safety released another
7 report last year showing that states with at least five
8 of seven key GDL components obtained major lifesaving
9 and crash reducing benefits.

10 In states with these comprehensive GDL programs
11 16yeardrivers were involved in 38 percent fewer fatal
12 crashes and had 40 percent fewer injuries. That's why,
13 even with all 50 states now having some form of GDL, so
14 many legislatures are looking to improve their teen
15 licensing efforts.

16 In Pennsylvania, the largest gaps in its teen
17 licensing laws are related to dangerous distractions.
18 Two of these distractions teen passengers and wireless
19 communications devices are targeted by bills that have
20 been introduced this session.

21 Let's start by looking at passenger limits.
22 They're a key part of all major safety organization's
23 model GDL programs. As of today, 39 other states have
24 already added passenger limits. If you look at the

1 color map provided, it might surprise you to know that
2 Pennsylvania is the only state in the northeastern
3 Midatlantic region without one.

4 Of our neighboring states, three are considering
5 bills to improve the passenger limits they already have
6 in place. And as you could see from the GDL chart I
7 mentioned earlier, many states such as Alaska and
8 Colorado, specifically restrict passengers younger than
9 age 21.

10 For a teen driver, the presence of one peer
11 passenger almost doubles the crash risk than driving
12 alone. With two or more peers along for the ride, the
13 risk spikes to five times, according to research by the
14 Insurance Institute for Highway safety. As a result,
15 AAA strongly supports as a minimum, no more than one
16 non family passenger under 21 for at least the first six
17 months. AAA is pleased to see that legislation before
18 this committee proposes a limit beyond the recommended
19 minimum, by calling for no passengers until age 18.
20 This is similar to the laws currently on the books in
21 New Jersey and Virginia.

22 AAA supports this improvement because the
23 research is compelling. In addition AAA members, who
24 represent a large percentage of your constituents,

1 resoundingly support them. In fact, 93 percent of
2 Pennsylvania members are in favor of the passenger limit
3 called for in the current proposal.

4 But passenger limits alone do not counter all of
5 the distractions teen drivers face. Today, it's really
6 an statement to say we live in a fast paced world. As
7 the other people testifying noted, communications
8 technology is everywhere, and, unfortunately, that also
9 means the automobile. It's a major distraction,
10 especially for inexperienced drivers. And last July AAA
11 and Seventeen Magazine, released the results of a study
12 on teen driving behaviors. The results, quite frankly,
13 were alarming. More than half of the teens surveyed
14 admitted to risky behavior behind the wheel involving
15 technology. Of them 51 percent said they talk on the
16 cell phone; 43 percent said they read text messages; and
17 32 percent said they send text messages. This may go
18 along with what your nephews were saying, Chairman
19 Geist.

20 AAA understands that distracted driving,
21 including the use of cell phones and other devices, is a
22 significant contributor to teen crashes. Therefore, AAA
23 supports a ban on all wireless communication devices for
24 junior drivers until a full license is granted, except

1 in the case of an emergency.

2 Now, if you refer to the chart titled "Teen Cell
3 Ban," you can review the states that have taken steps to
4 address this growing problem.

5 As Mr. Sundeen noted earlier, laws prohibiting or
6 eliminating the use of cell phones by teens are now in
7 place in 17 states and the District of Columbia.

8 As you could see, there's a range of remedies,
9 and some laws do, in fact, specify a restriction on the
10 "wireless communication devices." There goes one now.

11 This language captures all devices that are
12 capable of sending and receiving text messages.
13 Maryland does it this way. Nebraska, Oregon and Texas
14 also use this language.

15 Another component of a strong GDL program is a
16 limit on nighttime driving. Teens are at greatest risk
17 when driving at night. In fact, more than half of all
18 crashes, 54 percent occur between 9:00 p.m and
19 midnight. To have a real impact on safety, a nighttime
20 limit needs to keep novice drivers off the roads during
21 these high-risk hours.

22 If you look back at the GDL chart, you can see
23 that nine states, beginning with Delaware, have night
24 limits that start at 10:00 p.m. or earlier. It's also

1 worth noting that a couple of states with some of the
2 most highly regarded GDL systems, actually start their
3 night limits at 9:00 p.m. Those being New York and
4 North Carolina. AAA encourages Pennsylvania to consider
5 setting nighttime driving limits that begin an hour
6 earlier at 10:00 p.m.

7 Combining the best measure from bills already
8 introduced, and from the best laws around the country,
9 makes for good public policy. Research and the
10 experience of other states tell us that limiting
11 passengers and further limiting nighttime driving hours
12 for our youngest drivers will save lives. A ban on
13 wireless and other electronic devices also will help by
14 eliminating another major distraction from our least
15 experienced drivers.

16 Thank you for this opportunity to appear before
17 you on this issue, which for AAA and the Federation of
18 Pennsylvania AAA Clubs, is it's highest priority. I'll
19 be happy to answer any questions you may have.

20 CHAIRMAN MARKOSEK: Thank you very much, Brian,
21 for the record, AAA came in to see me over a year ago
22 and had this very high on their agenda, distracted
23 driving. So I'm happy to say we're at least trying to
24 deal with it here today.

1 MR. NEWBACHER: Thank you.

2 CHAIRMAN MARKOSEK: Representative Costa.

3 REPRESENTATIVE COSTA: Thank you, Mr. Chairman.

4 Thank you, Brian.

5 On the states that surround us that have the
6 occupancy limits on passengers, are we getting any
7 feedback about people being pulled over that are not of
8 age? I mean, my fear is if we it goes back to
9 enforcement again, my fear is that if we're pulling kids
10 over all the time, they may be not children. They may
11 be adults. It may give people an excuse to pull
12 somebody over.

13 Are we getting any feedback at all from the
14 police departments or are we getting any feedback from
15 people complaining that they were pulled over because
16 they looked like they were younger? Is there
17 enforcement at all on these issues?

18 MR. NEWBACHER: Mr. Chairman, and Representative
19 Costa, you know, the feedback we've gotten to date is
20 largely anecdotal. And I heard feedback from Police
21 Departments and states who have a passenger limit, and
22 although in some cases these laws are primary,
23 enforcement is pretty judicious. Officers generally
24 aren't looking to pull over a car that has more than one

1 person in it, even if they appear to be young, unless
2 something is going on, there appears to be, you know,
3 some other violation, either about to happen or already
4 in progress. And really, you know, AAA looks at
5 passenger limits as more of a tool for the parents,
6 because parents look to laws for guidance. And
7 passenger limits really become successful because of
8 that dynamic, which parents can say to the teen, "You
9 know this is the law. And it's the law of this
10 household. And it's the law of this state. So you're
11 only going to have one passenger tonight."

12 REPRESENTATIVE COSTA: Thank you.

13 CHAIRMAN MARKOSEK: Representative Solobay.

14 REPRESENTATIVE SOLOBAY: Thank you, Mr.
15 Chairman.

16 Brian, on the nighttime driving ban portion, have
17 you found any distinction between the accidents occur
18 with just normal drive around scenarios with the kids
19 out just joyriding, as opposed to those individual
20 children under that age that may be coming back from an
21 evening job?

22 One of the big negatives we hear from the folks
23 on the nighttime banning kids have after hour or after
24 school jobs, and it may carry them into that time line.

1 And is there a distinction between maybe kids coming
2 home from work, may be just doing that, straight back
3 and no problems, whereas most joyriding is going to
4 cause more of those accidents? Is there a distinction
5 between your data?

6 MR. NEWBACHER: Mr. Chairman, Representative
7 Solobay, to my knowledge, it is not a distinction, but I
8 would add that, you know, AAA has no issue with
9 exceptions for work related driving. And some states
10 have done it in a manner in which they're you know, as
11 long as the driver has a note from an employer or some
12 other official document, then that gets them off the
13 hook with an officer that might pull them over.

14 CHAIRMAN MARKOSEK: Thank you.
15 Representative Wagner.

16 REPRESENTATIVE WAGNER: Thank you, Mr.
17 Chairman.

18 This question somewhat goes to the question that
19 Representative Costa asked. I'm the prime sponsor of
20 one of the bills to reduce the number of passengers in a
21 car for teen drivers. And I thought one of the most
22 compelling stats that I reviewed in that context was the
23 percentage increase in accidents when you have
24 additional teenagers in a car.

1 Could you share that with the committee? I don't
2 have it in front of me, but I think it is a very
3 important statistic.

4 MR. NEWBACHER: Sure. The Insurance Institute
5 for Highway Safety has done some excellent research on
6 this, and concluded that with one peer passenger, the
7 risk just about doubles; with two or more, the risk
8 quintuples. So it's as you add a passenger, you know,
9 you're really beginning to create a situation that's
10 ripe for disaster.

11 REPRESENTATIVE WAGNER: Thank you. I would also
12 add that the feedback that I have received from parents
13 is very much like what you said, where having the law as
14 a deterrent enables them to enforce the rules that many
15 of them have in their household anyway.

16 MR. NEWBACHER: That's right, Representative
17 Wagner.

18 Mr. Chairman, if I could just add, California was
19 the first state to add a passenger limit. I believe in
20 1998, and after that limit was set, and the state had
21 some experience with it, it went back out and surveyed
22 parents and found that the inconvenience created by a
23 passenger limit was well tolerated with only 8 percent
24 saying that it caused a major inconvenience. So I

1 think, by in large, over time any inconvenience issues
2 are learned to be dealt with, and, in fact, viewed as
3 really a minor inconvenience; when in totality, you
4 know, the reason for doing it in the first place is
5 quite compelling.

6 CHAIRMAN MARKOSEK: Thank you.

7 Representative Pyle.

8 REPRESENTATIVE PYLE: Thank you, Mr. Chairman.

9 Thanks, Brian.

10 I want to followup on Representative Solobay's
11 question.

12 Yeah, the business community kind of depends on
13 high school kids working nights. And I know legally
14 they're allowed by federal law until 11 o'clock.

15 Has there ever been a cross-section done on the
16 data as to what nights of the week teen accidents are
17 happening? And I'll give you my rationale, one being on
18 weekends, you know, they're probably going to be working
19 earlier shifts as opposed to late, and week nights, they
20 would be working after school until 9, 10, 11 o'clock.

21 And my second question I would ask for your
22 response to is Dr. Klauer told us earlier that having
23 one person in the car reduced risk.

24 Now, is it fair to say there's a differentiation

1 between having one driver, who is over the age of 18,
2 25, 30, whatever the voice of reason so to speak versus
3 having the teenager in the car with another teenager?
4 It's probably rhetoric, right?

5 MR. NEWBACHER: Representative Pyle, Mr.
6 Chairman, the current proposal calls for no more than
7 one passenger and no more than one non family member,
8 so, you know, we don't have any issue with that one
9 passenger. But to the first part of your question.

10 REPRESENTATIVE PYLE: The first part would be has
11 there been a cross-section study done on what nights of
12 the week these kids are getting in nighttime accidents?
13 I'm curious as to the juxtaposition of kids working
14 after school and kids going out joyriding on weekends?

15 MR. NEWBACHER: Right. I believe there have
16 been, perhaps my colleagues are more aware than I, but
17 if memory serves me correctly, I believe there is a
18 correlation to increase in crashes associated with
19 weekend joyriding, as you say - -

20 REPRESENTATIVE PYLE: Right.

21 MR. NEWBACHER: And fewer incidents on week
22 nights, especially those involving work.

23 REPRESENTATIVE PYLE: Okay. I kind of assumed
24 that would be the answer I would get. But the converse

1 of that would be, you know, have we ever done a study
2 when kids are working these hours, because on weekends
3 when they're going to be able to run the long shifts,
4 which are the ones I think kids do. I taught high
5 school for a number of years. I'm just curious, you
6 know, I'm not trying to make it a point in question, or
7 anything like that, I'm just curious if such data had
8 been collected? But thank you.

9 MR. NEWBACHER: You're welcome, Representative
10 Pyle.

11 CHAIRMAN MARKOSEK: Thank you, Representative
12 Pyle brings up a good point there if there is any data,
13 any either yourself, or any of the other speakers on
14 that of which nights may or may not be more sensitive to
15 teen driving accidents? I know I would be very
16 interested in seeing that. You know, so I appreciate
17 Representative Pyle bringing up that issue.

18 I see no more questions, so Brian, thank you very
19 much again. It has been wonderful, and thank you for
20 coming here to testify.

21 MR. NEWBACHER: Thank you, Chairman Markosek and
22 Chairman Geist and members of the committee. It's my
23 pleasure.

24 CHAIRMAN MARKOSEK: Not to be outdone by folks

1 traveling from out of state, we have some local a local
2 person here from Carnegie Mellon University who will
3 testify next, Dr. Marcel Just, who is the Director of
4 the Center for Cognitive Brain Imaging, Carnegie Mellon
5 university.

6 As soon as they get the technology ironed out
7 there, we'll have Dr. Just testify.

8 DR. MARCEL JUST: Sorry, Mr. Chairman.

9 CHAIRMAN MARKOSEK: Dr. Just, welcome.

10 DR. MARCEL JUST: Thank you. It's a pleasure to
11 be here.

12 CHAIRMAN MARKOSEK: Let me first ask a question.
13 Are any of none of your slides are confidential or
14 anything because

15 DR. MARCEL JUST: No, no, because it's all in the
16 public domain.

17 CHAIRMAN MARKOSEK: Okay. All right, because we
18 are on the Public Cable Network, Pennsylvania Cable
19 Network, PCN, so that may be shown. So as long as
20 there's no copyright or confidentiality problems, we
21 will move forward.

22 Dr. Just, thank you. Whenever you are ready, you
23 may proceed.

24 DR. MARCEL JUST: Okay. Our research addresses

1 the issue of whether you can do two things at the same
2 time. What happens to your brain while you're driving
3 while listening on a cell phone. And the results are
4 kind of dramatic.

5 If you go to the next slide. We put people in an
6 MRI scanner. That's just a schematic. We put people in
7 a conventional MRI scanner.

8 CHAIRMAN MARKOSEK: Speak into the mikes, please.

9 DR. MARCEL JUST: They have headphones, so they
10 can listen to someone talking to them. They have a
11 little mirror above their eyes.

12 Could I have the next slide. This is a cut away
13 from the actual scanner. You could see a little picture
14 of a road behind them. There's a tiny mirror above the
15 person's head.

16 Could we have the next slide. You could see the
17 mirror there. And through that mirror is like playing a
18 video game at Dave & Busters.

19 Could we have the next slide, please. Next
20 slide. So we have people in the scanner. And we have
21 them navigating along a highway, a winding road at a
22 fixed speed. It's a little bit challenging, but you
23 don't have to be a video gamer to do it. And some of
24 the conditions, you give them sentences to answer as

1 true or false in questions. Paris is the capital
2 France, true or false. And we look at their what their
3 brains are doing while they're doing this. And it is an
4 amazing, and I think a clearcut answer.

5 Could I have the next slide, please. I think I'm
6 not going to show you the actual video. But they
7 navigate along the highway; in some cases, they pass
8 cars and so on. Oh, maybe we will see it. And you
9 can't hear the sentences right now, because they're
10 playing over the speaker of my laptop.

11 So you could imagine people doing this, and all
12 the time their brain activity is being monitored.

13 So there's a part of the brain that deals with
14 some spatial thinking, the way an architect or a
15 mechanical engineering thinks and the way a driver
16 thinks, how am I going to make this next turn. It's
17 called the parietal lobe.

18 And that next slide. And here I think is the
19 single slide that shows most of the story. The
20 left-hand panel shows the activation in the parietal
21 area while you're just driving. And the red show the
22 activated areas. We're looking at the back of someone's
23 brain, and you sliced away sort of the tip of it. So
24 you could see the place it activates. And you could see

1 this nice, bright activation while the person is
2 driving.

3 You take that same person on the right-hand slide
4 and see what happens to the brain activities, when
5 they're also listening to sentences. They're not
6 dialing. They're not holding a phone. They're just
7 listening to someone talk. The activation goes down by
8 37 percent. It's like you're having a little bit of a
9 problem driving brown out and, some of the time you
10 can't afford that. If the driver in front of you would
11 stop suddenly, if a child were to dart out from between
12 parked cars, we're going to be less able to handle it.

13 Now we measure not only the brain activity. We
14 also measure the driving performance in this simulator.
15 We measure how well people maintain their lane. And we
16 get a reliable increase in the amount of weaving in the
17 lane. We get a reliable increase in the hitting of the
18 side of the road when you're listening. Listening
19 decreases your brain activity associated with driving.
20 And it also makes you drive more poorly. And we have
21 this as the first study showing the effects of listening
22 while driving, and see that they're fairly traumatic
23 results.

24 Could I have the next slide, please. So this

1 just summarizes the results I gave you. The
2 participants in this is 29 students, licensed drivers,
3 this is not the first time they're faced with a winding
4 road.

5 The next slide, please. Let's skip this.

6 So the biological account of this, and there is a
7 biological reason why we can't do two things at the same
8 time, is simply that there's a limited amount of brain
9 resources to go around.

10 You could certainly do two things at the same
11 time, but you can't do them as well. There's a penalty,
12 especially if they're these kinds of tasks.

13 I want to comment a little bit about the
14 processing of language. It's very automated. If you
15 try to will yourself to not understand or not process
16 the next sentence I utter, you can't do it. It's going
17 to go into your brain. And you could watch that. We've
18 done studies where we ask people, "Don't attend to the
19 other things that you're hearing." How you could see
20 that information flowing into the brain from one center
21 to another, and you could see what it causes.

22 So sometimes somebody who uses a cell phone might
23 think, "Oh, well, if there's a difficult situation comes
24 up, I won't pay attention to the person talking to me."

1 Well, no such luck. You can't do it. And there are
2 published studies to show it.

3 So back that's why, that's a biological reason
4 why you shouldn't be using a cell phone while you're in
5 a demanding traffic situation.

6 The next slide, please. Another road we used.
7 So some of the take-home messages, I was just listening
8 to someone talk is distracting enough. You don't have
9 to hold or dial the phone. It's just listening. And
10 this is, of course, is true if you listen to a passenger
11 talk, or your radio. But a radio, you could reach over
12 and turn it off. A passenger often knows that they
13 should stop talking in a demanding situation. But your
14 cell phone conversation partner doesn't know that. And
15 they just keep talking, or they expect you to keep
16 answering. So that's why it's I think particularly
17 insidious talking on a cell phone.

18 The next slide, please. This is what I
19 previously mentioned that the language processing just
20 takes away from the other from the other task you're
21 doing, in this case, driving.

22 The next slide, please. A conversation, besides
23 getting in automatically being kind of an unstoppable
24 force can also be extremely emotionally or cognitively

1 demanding. If somebody says, you know, your job depends
2 on how you answer the next question, and the car in
3 front of you starts slowing down, the chances are you're
4 going to have problems. If somebody says something
5 emotionally troubling to you, that's going to take away
6 from your driving ability.

7 Now, we intuitively know that, and yet many
8 people take that risk. I think it's wrong to be taking
9 that risk. As we all know, we're not taking that risk
10 just for ourselves, but the people in front of us and
11 around us we're taking that risk. And given that we
12 know that it impacts driving and brain function, there's
13 no reason to allow people to take that risk when they
14 put others in danger.

15 Next slide, please. I made a list of possible
16 remedies. It's presumptuous of me. The third one is,
17 of course, legislation legislating limiting cell phone
18 use. And that's probably the main thing you're thinking
19 about. And I think that's a good thing to be thinking
20 about.

21 I also have other things listed on there. It's
22 conceivable that the insurance industry could intensify
23 nonuse of cell phones. They also want to decrease the
24 accidents and fatalities.

1 You could imagine, the second bullet there refers
2 to an electronic workload monitor that disables the cell
3 phone. It's imaginable, with the current technology,
4 that there could be electronic devices that automobile
5 manufacturers could develop. They could monitor traffic
6 densities, certainly vehicle velocity, and use those as
7 triggers to disable cell phones in the car. I think
8 this is well within the capabilities of current
9 technology.

10 And finally, the asterisk is my favorite bullet.
11 It sort of in some ways, it may be a low cost one, and
12 that's public education and drivers' ed courses
13 regarding divided attention. I think that if a driver's
14 ed course told people that they're taking 37 percent of
15 your activation away, some people will have the good
16 judgment to not use the cell phone, just with that
17 information.

18 Knowledge is an extremely powerful tool in our
19 society, and that's one of the ways we transform our
20 citizenry, besides in addition to legislative acts.

21 I don't have to tell you, I'm sure, other experts
22 have told you about it causing 42,000 traffic fatalities
23 annually in the United States. Do you how that compares
24 to our fatalities in the Iraq War, which is pushing

1 4,000. 42,000 a year; that means approximately one
2 person a day in the Allegheny County area dies in a
3 traffic fatality.

4 We already have many evils on the road. We have
5 inherent road hazards. We have mechanical problems. We
6 have all sorts of weak spots. To add cell phone use to
7 this, I think is doing ourselves an enormous
8 disservice. It's us we're putting at risk, us, our
9 children, and our relatives. And we don't want to do
10 that. And so it's us that we're putting at risk, and
11 it's us who are putting us at risk. We are the cell
12 phone users. And we're putting our fellow citizens at
13 risk. And it's time to get together in a sort of town
14 square and say, "Enough." We don't want to take chances
15 with our children's lives, with our own lives. And I
16 think that this shows us why it's not a reasonable risk
17 to take.

18 So perhaps I'll stop there.

19 CHAIRMAN MARKOSEK: Okay. Dr. Just, thank you
20 very very, much for that very interesting and telling
21 testimony, particularly with the visuals. I think you
22 know a picture is worth a thousand words. That was a
23 very interesting way to inform the committee. And we
24 certainly appreciate that. And I know as an educator,

1 you believe in education. And I think that is part of
2 our job here, too, as a legislative panel, along with
3 help of the media, PCN, and others to help educate the
4 public. And oftentimes, just the public awareness will
5 by itself get people to comply with the common sense
6 things that they should do while driving a car.
7 However, we are going to need some legislation.

8 And I appreciate you coming here today to help us
9 define what that may or may not be.

10 Representative John Evans from Erie County has a
11 question.

12 REPRESENTATIVE EVANS: Thank you very much, Mr.
13 Chairman. And thank you, Doctor, for your testimony
14 today.

15 I'm curious about your point on electronic
16 workload monitors disabling a cell phone in using
17 technology to block cell phone usage in a vehicle. I
18 haven't really heard that put forth before.

19 My question I guess surrounds the fact that in
20 some cases cell phone have been proven to save lives.
21 If you see an accident happening that someone goes off
22 on a snowy night into a ditch, and that cell phone
23 caller in another vehicle to 911 can save that person's
24 life as well.

1 Wouldn't it be extremely frustrating if you had a
2 disabling device in a car and you were unable to
3 communicate in an emergency situation?

4 DR. MARCEL JUST: Presumably, the workload
5 monitor would disable it while you're in extremely heavy
6 traffic. Now, I'm not sure even in an emergency room
7 situation, you don't want to save one life and take two
8 others in the meantime.

9 You know, really, in heavy LA freeway traffic,
10 I'm not sure I would want somebody reporting an
11 emergency. Maybe, I would want them to take the exit
12 and report it.

13 The work interestingly, the corporation that did
14 the workload monitor research is a company that was
15 working on a navigation system, because they wanted to
16 give navigation instructions at a good time to the
17 driver. So they're aware that there are good times and
18 bad times to tell the driver to turn left at the next
19 intersection. So that that kind of capability is
20 there. You know, one could have an override on it, if
21 necessary. I'm not sure how to work this out.

22 But most of the time, people are most it must
23 be that 99 percent of cell phone use isn't reporting
24 emergencies.

1 REPRESENTATIVE EVANS: Okay. My followup
2 question is concerning the conversations, and as the
3 chairman mentioned, the picture was worth a thousand
4 words. And that was very, very compelling.

5 Is that conversation differentiated with a person
6 in the vehicle or on a cell phone? I mean, if you're
7 having a conversation, in theory, we should all be
8 driving by ourselves then?

9 DR. MARCEL JUST: We should be asking our
10 passengers not to talk to us in heavy traffic. And some
11 of us do. It's little bit more of a problem when you
12 have children, or your passenger is in the back seat.
13 If they're raising a ruckus while you're in heavy
14 traffic, you're taking a risk. If that ruckus is going
15 in, you're concerned if they'll start fighting or
16 something, that's a risk. You know, it's hard to
17 legislate against that.

18 REPRESENTATIVE EVANS: Right.

19 DR. MARCEL JUST: But at the same time, I think
20 that you want to tell parents that maybe, you know, be
21 very careful to separate your kids in the back seat,
22 make sure that they're adequately entertained, maybe
23 bring along another person to entertain the kids or
24 something. But you're right, a passenger could if a

1 passenger is talking to you in the middle of L. A.
2 Freeway traffic, I think it would it would impose a
3 similar load. But I think mostly I've experienced, and
4 I believe there's a study, a scientific study that shows
5 the passengers stop talking when the situation becomes
6 very demanding.

7 REPRESENTATIVE EVANS: Thank you very much.

8 CHAIRMAN MARKOSEK: Representative Mark
9 Longietti.

10 REPRESENTATIVE LONGIETTI: Thank you, Mr.
11 Chairman.

12 Thank you for your testimony.

13 I'm just wondering whether or not you made you
14 talked about the language process, and you can't shut
15 that off.

16 Do you make any distinction in your research
17 between information that I'm receiving as opposed to I
18 need to answer a question. I need to respond to the
19 language that's coming through to me?

20 DR. MARCEL JUST: No. I think you process the
21 content of the sentence. Just suppose I say, I need
22 I'm going to say something. And you don't have to
23 respond to it at all. It's going to go into your brain
24 and it's going to process, I get to name the brain

1 areas. I know how much they activate. It doesn't
2 matter whether even if you have no obligation to
3 respond or process, as I said, even if you tried to shut
4 it out, you can't.

5 This result isn't a consequence of us asking
6 people to respond to a poll. We do that just to make
7 sure that they're actually attending.

8 But in another study where we asked them to not
9 attend, we got the same result.

10 REPRESENTATIVE LONGIETTI: Just to take that
11 further. Would you believe then that the results would
12 be the same, whether it's conversation on a cell phone,
13 or if I'm listening to music that has lyrics in it?

14 DR. MARCEL JUST: That's a very good question. I
15 don't I'm not sure. I think that's a good question. I
16 don't believe that study has been run. So lyrics to
17 music, if you're attending to them, I would think, but
18 we don't know for sure. We don't even know about just
19 melodic music, without lyrics, instrumental music. We
20 don't know what impact that has, how much of a drain or
21 so we don't know that. We don't have the answer to that
22 just yet.

23 REPRESENTATIVE LONGIETTI: If I took the music
24 scenario away, certainly, for example, then say

1 listening to talk radio, or books on tape, or something
2 like that, would have the same brain effect?

3 DR. MARCEL JUST: Absolutely. So, yes, the use
4 of books on tape, audio, yes, I would think would have
5 the same effect. You wouldn't want you know, I don't
6 want to be crossing the street while somebody is
7 listening to books on tape or using their cell phone.
8 It will take away from the brain activity.

9 Now, that's, of course, if you're driving through
10 the desert and sort of miles of clear head and there's
11 no harm, of course.

12 REPRESENTATIVE LONGIETTI: I guess your point on
13 that is that with the radio or books on tape, it becomes
14 a stressful driving situation, I have the option of
15 quickly turning the radio off, and I suppose I have an
16 option of ending my conversation on the cell phone, but
17 I may not be as apt to do that. I take it, that's your
18 point?

19 DR. MARCEL JUST: Yes, that's right. And we do
20 say, "Oh, I'm going into the tunnel I have to get off
21 now." And now, we should be saying, "I'm going through
22 heavy traffic, I have to get off now," similarly, yes.

23 REPRESENTATIVE LONGIETTI: I guess that explains
24 maybe that I tend to shut off the radio when I'm lost or

1 if I'm driving into the City of Pittsburgh and I'm
2 unsure where to turn.

3 DR. MARCEL JUST: Yes, absolutely.

4 REPRESENTATIVE LONGIETTI: It seems like I want
5 to hit that radio and shut it off.

6 DR. MARCEL JUST: That's right, that's right, so
7 intuitively, and people who are just learning how to
8 drive have great difficulty driving with the radio on.
9 So they can't even take it. So that's absolutely
10 right. So we experience it and kind of intuitively know
11 it, and here's the science to prove it. And the problem
12 is getting big enough that I think it needs to be dealt
13 with.

14 Really, as I walk through the neighborhood I live
15 in, the proportion of people who are at a main
16 intersection speaking on cell phones seems incredibly
17 large. And it's a risky business.

18 I could also surmise that we measured weaving in our
19 study. But when I sometimes when I'm driving, I could
20 tell that the person in front of me is using the cell
21 phone while they're weaving. It looks like somebody is
22 slightly inebriated.

23 REPRESENTATIVE LONGIETTI: You could appreciate,
24 and I think you did on your various options, how

1 difficult it is when you look at this from the cognitive
2 side to tackle this legislatively because for years
3 we've been used to being able to play our radios, have
4 conversations with people in our cars, listen to books
5 on tape, or CD, or what have you, it becomes very
6 different when you look at it from the cognitive aspect,
7 it becomes a very difficult area for legislation.

8 DR. MARCEL JUST: That's right, and the problem
9 is growing. Now, many cars have navigation systems.
10 It's enormously helpful, but you know, looking at that
11 scene, unquestionably it takes away your attention from
12 the road. And when talking to you, sometimes it says
13 annoying things that are irrelevant and are
14 distracting.

15 So as the technology enables us to pump more and
16 more information into the car, the limiting factor
17 remains with the human brain, which is now many million
18 years old, and it doesn't know about navigation systems
19 and so on. It could still only do one thing at a time
20 well. So there are many challenges, cell phones,
21 navigations systems, and so on. It seems to me that
22 there's a need, a sort of, many segments of our society
23 need to work together to solve this problem. Some of
24 them one component I think is legislative, but there

1 are other components we have to be very weary of.

2 I think, you know, DVD players, the one you put
3 in the front seat, that seems to be a madness to let a
4 driver watch a DVD while driving.

5 REPRESENTATIVE LONGIETTI: Thank you very much.

6 CHAIRMAN MARKOSEK: Thank you.

7 Representative Josh Shapiro.

8 REPRESENTATIVE SHAPIRO: Thank you, Mr.

9 Chairman.

10 Doctor, thank you for your testimony. And I'm
11 going to invite you to sit in my back seat between each
12 of my two children and help keep them quiet while I
13 drive.

14 You may or may not have heard Dr. Klauer's
15 testimony at the beginning of our hearing today where
16 she testified that the best situation certainly would be
17 not to have any cell phone conversation in the car.
18 Something I don't support. I do support banning the use
19 of handheld cell phones. And in her testimony, she made
20 it clear that using a hands free device is better than a
21 handheld device, and there are certain handsfree devices
22 that are even better to make the conversation a less of
23 an impact on your driving.

24 I want to contrast that with your testimony where

1 you seem to suggest that from a cognitive standpoint
2 there really wasn't much difference between having a
3 conversation on a headset versus having a conversation
4 on a handheld while driving.

5 Did I understand your testimony correctly?

6 DR. MARCEL JUST: What I did say was having just
7 having the conversation will the 37 percent would be
8 what you would expect from the from the hands free.
9 And I could imagine it would get worse if you're dialing
10 or holding.

11 REPRESENTATIVE SHAPIRO: Okay. So it's slightly
12 worse from a cognitive standpoint if you're dialing or
13 holding?

14 DR. MARCEL JUST: That's right. So this is like
15 and this is bad enough.

16 REPRESENTATIVE SHAPIRO: Okay.

17 DR. MARCEL JUST: Now, I could raise the question
18 of never or sometimes. So I think that's a tough
19 question because, like I say, in the desert, I would
20 oppose a total ban.

21 REPRESENTATIVE SHAPIRO: Sure.

22 DR. MARCEL JUST: But on the Parkway here in
23 Pittsburgh during traffic times, I think it would make
24 sense to ban it.

1 REPRESENTATIVE SHAPIRO: Okay. But let's use so
2 we're comparing apples to apples. You're talking about
3 the Parkway, Pittsburgh, five o'clock rush hour, cell
4 phones are not banned and not supposed to be banned.
5 And the issue on the table or one of the issues on the
6 table is to ban the handheld conversation, and instead
7 require the driver to use a headset, which is what my
8 legislation would do.

9 So it's your testimony that you would still be
10 you would still have some level of cognitive impairment,
11 although you would have less cognitive impairment if
12 you're using a headset?

13 DR. MARCEL JUST: I haven't tested your
14 situation, so I don't know I don't know how much less,
15 but this is bad enough. Certainly hands free would at
16 least have this much impairment. At least. So it's a
17 risk. Why would one want to subject us?

18 REPRESENTATIVE SHAPIRO: I understand where
19 you're coming from in terms of the global picture. I'm
20 just trying to nail down. Let me explain the question
21 I'm trying to nail down. There's been testimony,
22 there's been research to suggest that when you have the
23 cell phone conversation, there's really two issues at
24 play. There's the physical distraction, the fumbling

1 for the phone, using your hands and then there's the
2 cognitive. And from a physical standpoint, there have
3 been several studies, one in front of me, the design
4 science study from 2005, which I want to ask you to
5 comment because this is really but this is what it
6 says, 71 percent of drivers steered more accurately when
7 they used the headset; 92 percent of drivers achieve
8 more of a consistent speed when using a headset. There
9 are statistics like that to suggest that from a physical
10 standpoint, you're better off using a headset. And that
11 seems to jive with some of the other testimony.

12 What I wanted to nail down with you is on the
13 cognitive side, because that's what you're an expert in,
14 and what I've heard you say that from a cognitive
15 standpoint that you're better off using a headset, not
16 perfect by any stretch, and there's still cognitive
17 impairment, but you're better off than using a handheld
18 device. And I just want to make sure that I have
19 correct because I've heard you say

20 DR. MARCEL JUST: I think all things being equal,
21 I'd rather a person using a hands free than a handheld.
22 That's so you don't want the perfect to be, you know,
23 the enemy of the good.

24 REPRESENTATIVE SHAPIRO: That's our struggle

1 every day.

2 DR. MARCEL JUST: Yes, that's right. But it's
3 just not enough.

4 REPRESENTATIVE SHAPIRO: Thank you. I appreciate
5 your testimony. Thank you, Mr. Chairman.

6 DR. MARCEL JUST: You're welcome.

7 CHAIRMAN MARKOSEK: Seeing there are no other
8 questions, I just have one brief question.

9 Have you ever had a legislator in your brain
10 imaging machine? You don't have to answer that
11 question.

12 But, Doctor, thank you very much. You've been a
13 wonderful person to add to the committee testimony here
14 today. And you're certainly a credit to CMU. I
15 certainly wish you the best in the world.

16 DR. MARCEL JUST: Thank you so much.

17 CHAIRMAN MARKOSEK: Chairman Geist and I would
18 like to thank all of you here for attending today. And
19 just keep in mind that, you know, the passage of
20 legislation, if you visualize a spectrum is over here as
21 zero, we have no laws to control any of this, and over
22 here is banning or controlling everything, we're
23 probably going to fall somewhere in the middle, maybe
24 not even halfway, but it's our goal here is as a

1 committee to attempt to get off the zero dime so to
2 speak and get some legislation passed that will control
3 distracted driving in Pennsylvania.

4 So with that, I want to thank the members. I
5 want to thank Chairman Geist. I especially want to
6 thank our staff for doing such a wonderful job in
7 setting this up, as well as PCN for traveling to
8 Pittsburgh and presenting this. And certainly, the
9 media that has attended as well. So with that,
10 everybody thank you and the hearing is adjourned.

11 (Proceedings concluded at 3:17 p.m.)
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COURT REPORTER'S CERTIFICATE

I, hereby certify that, I, Lois Sikoski, Notary Public, reported in stenotype the record of proceedings in the above entitled matter, and that this copy is a full, true and accurate transcript of my said stenotype notes.

Court Reporter

dated: March 16, 2008