

THE U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
PUBLIC HEALTH SERVICE  
CENTERS FOR DISEASE CONTROL AND PREVENTION  
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

convenes the

TOWN HALL MEETING

**NORA**

**NATIONAL OCCUPATIONAL**

**RESEARCH AGENDA**

The verbatim transcript of the  
Town Hall Meeting of the National Occupational  
Research Agenda held in Tampa, Florida, on  
February 13, 2006.

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February 13, 2006

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-- "uh-huh" represents an affirmative response, and "uh-uh" represents a negative response.

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-- (inaudible)/ (unintelligible) signifies speaker failure, usually failure to use a microphone.

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**PROCEEDINGS**

(9:00 a.m.)

**OPENING REMARKS****DR. DONNA PETERSEN, UNIVERSITY OF SOUTH FLORIDA**

**DR. PETERSEN:** Good morning, it's my pleasure to welcome you to the University of South Florida. My name is Donna Petersen. I am the Dean of the College of Public Health here at the University of South Florida, and we are delighted to host this town hall meeting for the National Institutes of Occupational Safety and Health in order to inform their development of the National Occupational Research Agenda for the future.

As the oldest College of Public Health in the State, we are very proud to see so many of you here today; friends and colleagues and members of our communities. It's important to the College that we provide this kind of time and place for us to come together and learn from you about issues that affect your lives and your work because as we serve to protect the public's health, it's not only about preventing disease, it's about promoting a quality of life. It's about promoting opportunities for people to live and work in their communities

1 and enjoy a state of health, which means we  
2 want our workplaces where people seek careers  
3 and productive livelihoods to be free from  
4 hazard, free from exposures, free from illness,  
5 free from anxiety. We want our workplaces to  
6 be healthy and safe places.

7 This research agenda is important. It helps  
8 NIOSH determine where to place their resources  
9 for the future. And we've been happy to be a  
10 partner of NIOSH through our education and  
11 research center, the Sunshine ERC here at the  
12 College of Public Health at the University of  
13 South Florida for a number of years.

14 Through the Sunshine ERC we create and  
15 disseminate knowledge. We educate  
16 professionals and folks to lead our  
17 occupational and safety agenda here in Florida  
18 in the Tampa Bay region and around the world.  
19 I'm pleased to see so many of you here today.  
20 I look forward to hearing your remarks and your  
21 comments. It is critically important that we  
22 engage our public and our communities in this  
23 kind of work so that we are sure that we are  
24 addressing the most pressing issues of our day  
25 and so that our research informs policy and

1 practice for years to come in promoting health  
2 and a good quality of life.

3 So again, I'm delighted to welcome you here  
4 today and I will now introduce to you our  
5 colleague from the National Institute of  
6 Occupational Safety and Health, Max Lum, who's  
7 Director of Communications at NIOSH.

8 **DR. MAX LUM, NIOSH**

9 **DR. LUM:** Well, good morning and thank you very  
10 much for being with us today at the town hall  
11 meeting. I'm really happy to be here. We had  
12 12 inches of snow in my driveway at 6:00 a.m.  
13 yesterday and I knew my wife wasn't going to  
14 shovel it. So I was out there very early just  
15 trying to get the car out of the garage to get  
16 to the airport. So I'm really happy to be  
17 here.

18 It's a pleasure, really, to talk to you a  
19 little bit about the National Occupational  
20 Research Agenda. This is the fifth in a series  
21 of thirteen national town hall meetings that  
22 we're doing around the country. NIOSH is a  
23 National Institute for Occupational Safety and  
24 Health. It's part of the Centers for Disease  
25 Control and Prevention.

1 I think about ten years ago -- almost ten years  
2 ago to the month NIOSH looked around and  
3 decided it needed really a better way to  
4 provide guidance for its research program. We  
5 at that point developed the National  
6 Occupational Research Agenda Program. What it  
7 is is it's a framework that we use at the  
8 Institute to develop our research agenda. It's  
9 not just for the Institute. It's really the  
10 National Occupational Research Agenda. In  
11 pursuit of that -- even though NIOSH is a small  
12 federal agency, particularly compared to some  
13 of the Institutes a NIH -- we're able to  
14 leverage the resources that we get from NORA to  
15 attract additional information from other  
16 places. Not only from industry, which we're  
17 hoping to do more of, but usually from the  
18 federal government to work on research  
19 projects.

20 We're particularly pleased that we could do it  
21 here in south Florida. Although I'm wondering  
22 about south Florida because we're not south far  
23 enough, I think, for the weather for us. We're  
24 pleased to be here and pleased to work with Stu  
25 and his team. Diana McCluskey has really



1                   helped us put this together; Alex LaBow (\*).  
2                   These are the people on the ground here that  
3                   have really made this possible. We're thrilled  
4                   to have the Secretary of Health with us today  
5                   and the Dean. As an indication of how serious  
6                   our effort is and how much we do want to hear  
7                   from you today, I can remember -- then I'll get  
8                   off the podium here, but let me just tell you  
9                   one story.

10                  Ten years ago -- people say well, what do you  
11                  do with this stuff? When you collect all of  
12                  this information, what happens to it? What we  
13                  do is we do take it back. We put it into a  
14                  docket, a legal document for the government.  
15                  It becomes a part of what our researchers will  
16                  look at in deciding and moving forward with our  
17                  research agenda.

18                  Ten years ago at a town hall meeting in  
19                  Washington, D.C. a group of nurses came down  
20                  from Philadelphia -- and I can still remember  
21                  it to this day -- and they brought a patient  
22                  with them. They testified at that meeting and  
23                  they talked about the importance of the  
24                  Institute tackling the issue of latex allergy  
25                  and latex allergy from wearing latex gloves in

1 the hospital setting causing real problems for  
2 these folks leading to the point where they  
3 couldn't work anymore.

4 That was just one example of the Institute  
5 immediately deciding to take this on as a  
6 research issue, and I think within a rather  
7 short time we were able to issue an alert to  
8 every hospital in the United States about the  
9 importance of understanding what latex allergy  
10 is and what are the things that you can do to  
11 prevent it.

12 So we're looking for those items. We're  
13 looking for comments from you today. One of  
14 the things my father said that I remember is if  
15 you're going to be a speaker there are three  
16 things you have to remember. You have to be  
17 focused, you have to be on target, and you have  
18 to be seated. I think I'm finally to that last  
19 point.

20 We really do want to hear from you and you'll  
21 hear a little bit more from Sid Soderholm of  
22 the Institute about the specifics of what we're  
23 going to do with the information. I do want to  
24 introduce Stu Brooks, the head of the Sunshine  
25 Center here at the University of South Florida.

1           Thanks, Stu.

2           STUART BROOKS, UNIVERSITY OF SOUTH FLORIDA

3           **DR. BROOKS:** Thank you, Max. I want to welcome  
4           everyone here today. It's a real pleasure  
5           hosting this -- what I think -- is a very  
6           important event; that is this town meeting.  
7           Where the University comes in, besides having  
8           the Sunshine ERC, which is supported by funds  
9           from NIOSH -- One of the things that's a main  
10          function of the Sunshine Education Research  
11          Center is the conduction of research.  
12          So at the ERC and at the College of Public  
13          Health at the University of South Florida we  
14          try to identify research areas that are  
15          pertinent to the State of Florida and to the  
16          area.  
17          So we welcome this town meeting because it can  
18          help us identify areas of research that need to  
19          be followed and we can then initiate various  
20          research projects. Over the years we have  
21          tried to identify problems and issues that are  
22          pertinent to the State and that are unique. So  
23          it's a real value to have these meetings here.  
24          It's also a real pleasure to have our guests  
25          here and the first is an individual that I'd

1           like to introduce who's one who has a real  
2           impact in this community. Her family has had a  
3           major impact in this University. The family  
4           has also had a very important impact on the  
5           College of Public Health. It's a real pleasure  
6           to introduce the Hillsborough County  
7           Commissioner, Kathy Castor.

8           **KATHY CASTOR, HILLSBOROUGH COUNTY COMMISSIONER**

9           **MS. CASTOR:** Good morning. I'm here on behalf  
10          of the Hillsborough County Commission, the City  
11          of Tampa, to welcome you to this community of  
12          over one million people. This is a community  
13          that values community health. It is also a  
14          hard-working community. It's very pertinent  
15          that you're going to be talking about the  
16          retail and wholesale sectors today.  
17          This is a community that values its public  
18          health to such an extent that the County  
19          government in concert with the University of  
20          South Florida and our major hospitals has  
21          created an award-winning healthcare program on  
22          the local level to serve working families in a  
23          clinic system and get them out of the ER for  
24          their primary care.  
25          We work with Tampa General Hospital and Saint

1 Joseph's Hospital in particular in our  
2 community health centers through a half-cent  
3 sales tax funded by taxpayers to provide  
4 healthcare and primary care to the uninsured.  
5 As you all go back to your communities and you  
6 do further research, if you need more  
7 information about this award-winning program I  
8 encourage you to contact and the University of  
9 South Florida. It should be the wave of the  
10 future to address our uninsured problem in this  
11 country.

12 This is also a very hard working community.  
13 Our unemployment rate is very low. This is a  
14 service-sector economy where we are today. We  
15 have so many tourists that come to the Tampa  
16 Bay area and our residential growth and  
17 homebuilding and commercial development -- the  
18 impact here cannot be underestimated.

19 So I encourage you all to have a very  
20 informative dialogue today. I'm very happy to  
21 present a proclamation to USF College of Public  
22 Health and Dr. Petersen. This is simply a  
23 token of the community's warm welcome. It's a  
24 little warmer inside this morning than it is  
25 outside, but this is a token of our warm

1 welcome to all of you.

2 If I can add one more -- since I am a  
3 politician -- one more political statement, I  
4 won't say too much about it other than if you  
5 would like to share today your concern over  
6 budget cuts at the federal level to the Centers  
7 for Disease Control and all of the Occupational  
8 Safety and Health programs that are at risk I  
9 encourage you to do that as well. Thank you  
10 very much.

11 **DR. BROOKS:** Thank you very much. As you know,  
12 NIOSH is part of the CDC, so that would be very  
13 pertinent to them. Now, once again, it's my  
14 real pleasure to introduce the next guest.  
15 He's a person who has a diversity of expertise  
16 and interest; probably an outstanding  
17 storyteller. He's an outstanding athlete. He  
18 was a professional soccer player at one time.  
19 He received a number of degrees from a master's  
20 to a Ph.D. He was a faculty member at the  
21 University of South Florida at the College of  
22 Public Health.

23 It's now my pleasure to introduce the  
24 Commissioner of Health for the State of Florida,  
25 Dr. Rony Francois.

1        **RONY FRANCOIS, SECRETARY, FLORIDA DEPARTMENT OF**  
2        **HEALTH**

3            **DR. FRANCOIS:** Thank you Dr. Brooks for this  
4            kind introduction. Some of you may not know  
5            this, but there are few professionals, namely  
6            occupational medicine physicians in this  
7            country that Dr. Brooks has not trained. He's  
8            been doing this for a while and it is indeed a  
9            pleasure to come back to USF, my main alma  
10          mater. I trained under Dr. Brooks and  
11          completed my residency in occupational medicine  
12          along with a master's in public health back in  
13          1998.

14          When I finished my residency I was tapped to be  
15          on the faculty and also started working at  
16          Citigroup. Well, you may not know this, but  
17          Citigroup is probably one of our most  
18          successful banks and I think they figured out  
19          how to take care of their employees. The way  
20          they did this is they had a corporate health  
21          clinic onsite to take care of the employees for  
22          any issue that would come up.

23          What they figured out is that people actually  
24          showed up to work sick. I think the British  
25          call it sickness presenteeism. In the study

1           that they did they looked at heart disease and  
2           invariably they compared two groups. A group  
3           that never called in sick and a group that  
4           showed up to work sick. What they found was  
5           that the incidence of heart disease was much  
6           higher in the group that never called in sick.  
7           You can think about denial and so forth, but  
8           the bottom line is that this clinic was very  
9           successful because it protected the employees  
10          and it also kept them at work because they  
11          would show up with a urinary tract infection,  
12          migraine headache, and other more serious  
13          conditions, but the bottom line is we'd be able  
14          to treat them and then send them right back to  
15          work without the need of leaving the campus.  
16          I was quite happy doing this and being on the  
17          faculty when the Governor appointed me to be  
18          Secretary of Health. So this topic, this  
19          theme, is very dear to my heart, not only as a  
20          public health and occupational medicine  
21          physician, but also as the Secretary of Health.  
22          The mission of the Department is to promote and  
23          protect the health of all of our citizens and  
24          central to that theme are the workers. I love  
25          our workers. I know in the Department of Health



1 we have dedicated professionals and I've logged  
2 about 20,000 miles on this body already in less  
3 than five months being in the trenches and  
4 meeting the folks who make it happen. It's  
5 always a pleasure to shake someone's hand and  
6 tell them how much I appreciate what they do.  
7 Likewise, this conference, this town hall  
8 meeting is the way it should be done, which is  
9 to gather the folks who are in the trenches,  
10 the folks who are involved in wholesale and  
11 retail to come tell the research institutions  
12 what the focus of the research should be and  
13 what the important areas should be.  
14 So I applaud the University of South Florida  
15 for not only hosting this important meeting,  
16 but also for providing you with this forum so  
17 that you can tell us what's important. We may  
18 not always know what's important from where we  
19 sit, but with that kind of collaboration I  
20 think the research agenda will be moved forward  
21 by light years.  
22 I just hope that occupational safety and health  
23 will stay at the forefront because indeed the  
24 workers are really the foundation of our  
25 economy and the foundation of our way of life.

1 I just hope that occupational safety and health  
2 will remain at the forefront of public health  
3 without the sinister help of tragic mine  
4 accidents. Thank you.

5 **DR. BROOKS:** Thank you, Rony; very nice. I'd  
6 like now to introduce Sid Soderholm. He will  
7 be the speaker for NIOSH and he will provide  
8 some introductions.

9 **INTRODUCTION TO RESEARCH AGENDA PROCESS**

10 **SID SODERHOLM, NIOSH**

11 **DR. SODERHOLM:** Well, thank you and thank you  
12 for your kind remarks. I'm going to deal with  
13 some of the more pedestrian issues of why we're  
14 here today and what we're going to do with your  
15 input. This was a wonderful way to kick this  
16 off, so we appreciate everyone's coming and  
17 providing the introductory remarks.

18 I'm going to talk about the National  
19 Occupational Research Agenda. As we've said,  
20 this is an agenda for the nation. The agenda  
21 really started probably eleven years ago with  
22 an idea and after a year of hard work about ten  
23 years ago the agenda was unveiled. The agenda  
24 was meant to be a ten-year agenda. At the time  
25 the promise was that this would be revisited.

1           So we have been doing that; restarting the  
2           process, reinventing the process, and trying to  
3           improve on the success of the National  
4           Occupational Research Agenda for the past  
5           decade.

6           The vision has always been a partnership effort  
7           to define and then conduct the priority  
8           research. The major aspects of that vision are  
9           to seek stakeholder input; that's what we're  
10          doing here today. We're in the midst of a  
11          process -- my wife well knows that I'm not  
12          going to be home much the next six weeks. It's  
13          an exciting process. We're going to use this  
14          input and through a process that I'll describe  
15          briefly identify the research priorities for  
16          the nation.

17          The NIOSH budget is granted by congress. We're  
18          pleased to have those funds, but there's so  
19          much more that can be done. When we gather the  
20          energies, the funds, the input, and work with  
21          partners in order to get the information that's  
22          needed for the workers to be able to protect  
23          themselves and to be protected more  
24          effectively. So working together to address  
25          those priorities is a very important part of

1 NORA and always has been and will remain.  
2 Leveraging funds; Max mentioned this briefly.  
3 In the first ten years we had some success. We  
4 drool at the National Institutes of Health's  
5 budget. Of course, they are dealing with very  
6 large issues, but some of those funds were able  
7 to be put into projects that had relevance both  
8 to the NIH mission and to the occupational  
9 health mission, and that wasn't happening  
10 before NORA. I think the opportunities are  
11 much greater for enlightened companies, for  
12 foundations, for others to see the advantages  
13 and helping to support research information  
14 generation on occupational safety and health as  
15 part of their mission, too. So that has always  
16 been a part of NORA.  
17 There are some things that are going to be  
18 changing in this second decade of NORA. We're  
19 really kicking it off with our symposium in  
20 Washington, D.C. on April 18 through 20 of this  
21 year. This symposium will celebrate the  
22 successes of the first decade of NORA and  
23 really kick us off into the second decade.  
24 The second decade -- what's new is the focus of  
25 moving research to practice in workplaces

1 through sector-based partnerships. So what is  
2 this sector-based approach? We're talking  
3 about addressing and identifying the most  
4 important issues in the sectors. I'll talk a  
5 little bit more later about the kinds of input  
6 that we need and the kinds of issues that we  
7 foresee that will be addressed. We will have a  
8 research council for each of eight sectors or  
9 really they're groups of sectors. These  
10 research councils will come up with research  
11 strategies.

12 If you're familiar with the first decade of  
13 NORA we had 21 priority areas and how we were  
14 going to work on those areas was something that  
15 was fleshed out by a team, but wasn't really as  
16 central to the overall agenda. This time we're  
17 going to eight -- or maybe in sub-sectors we'll  
18 have additional whole research strategies.

19 What are the major issues and what needs to be  
20 done to make progress in those issues?

21 The sector approach does not lose the  
22 cross-sector needs. We have workers who work  
23 in sectors with hearing loss needs, the work  
24 organization and stress issues, the  
25 musculoskeletal disease issues. All of those

1 needs cross across sectors and the sector  
2 approach doesn't lose that fact. We're still  
3 doing the work that needs to be done. But by  
4 focusing not so much on the cross-sector needs,  
5 but on the sector needs we hope to bring in  
6 those partners that can really make sure the  
7 research that's being done is the most  
8 important to be done and make sure that the  
9 results get back out into the workplace where  
10 they can be used.

11 So why were workplaces organized by sectors,  
12 even though many of the research needs cross  
13 sectors? There are significant differences  
14 within a sector. There's significant  
15 differences between sectors as to what the  
16 research needs are. So we think this  
17 sector-based approach is really going to focus  
18 our goals and our objectives and focus us on  
19 the results that are needed and on having those  
20 results make a difference in the workplace.

21 We think the sector-based approach will  
22 facilitate partnering, especially with new  
23 partners. People we haven't partnered with as  
24 much as we should, perhaps, in the past. The  
25 industries, the unions, the trade

1 organizations, the professional societies that  
2 if they aren't, need to be focusing some of  
3 their efforts realizing that part of their  
4 mission overlaps with our mission of improving  
5 occupational safety and health. So overall we  
6 think this is going to be an efficient approach  
7 to support getting the information that we need  
8 to eliminate the worse occupational safety and  
9 health problems.

10 So how is this going to work? We have eight  
11 NORA research councils. In these abbreviations  
12 is where I've listed the eight sectors. In the  
13 morning session today we're encouraging input  
14 in any of these areas. We have a pretty full  
15 schedule, but I hope that we'll have time to  
16 ask people to come up from the audience, even  
17 if you didn't sign up, to present just a few  
18 remarks -- five minutes -- on your issue  
19 relating to any workers in any of the sectors.  
20 This afternoon we're focusing on the sector  
21 group of wholesale and retail trade that's  
22 listed in the lower right part of this slide.  
23 So we'll have eight research councils. The  
24 research councils -- I'll talk about those a  
25 little bit in a minute. We'll have eight

1 research councils that will each focus on their  
2 own sector and they'll be interacting with the  
3 cross-sector research council. Each of the  
4 eight research councils is led by one person  
5 from within NIOSH and one person outside of  
6 NIOSH. So it's truly a partnership effort at  
7 all levels.

8 Those 16 people, those two co-leaders from each  
9 of the eight workgroups, will make up the  
10 cross-sector research council. So they'll be  
11 kind of the board of directors to try to make  
12 sure everybody is moving forward and making  
13 progress. And they'll be specifically looking  
14 for those issues that are so similar along  
15 sectors that the work needs to be looked at, needs  
16 to be emphasized, needs to be sold across  
17 sectors. So this cross-sector research council  
18 will be looking for those opportunities to work  
19 across sectors.

20 The NIOSH role is really one of stewardship and  
21 providing some infrastructure. We don't lead  
22 the process. We realize the process wouldn't  
23 go forward without us. We try to make sure it  
24 will go forward, but it's not just our process.  
25 It's all those researchers, all of those



1 partners that are involved also.  
2 So we see that the research councils will have  
3 diverse input leading what we think will be  
4 robust research strategies. Research  
5 strategies that will have some meaning to those  
6 sectors and that will really focus research in  
7 the nation for some time to come. I actually  
8 just got an e-mail from -- or noticed some  
9 comments coming into the website the other day  
10 that said I'm here in Chile and we really pay  
11 attention to what your research strategies are  
12 in the U.S. because that informs us in some of  
13 the work that we need to be doing in South  
14 America. So it's not just in the U.S.  
15 So the research councils will be made up of  
16 yes, researchers, occupational safety and  
17 health professionals, people who have contacts  
18 through their organization with workers, with  
19 groups of employers. All of these people will  
20 be coming together on the research councils.  
21 Their initial work will be to take the various  
22 inputs that are coming in through the town hall  
23 meetings. We're having a transcript made.  
24 Shane Cox is here working hard -- Well, I guess  
25 we're all at work today, but Shane is

1 definitely at work today making a transcript  
2 for us and that will be parsed and put into the  
3 website and into the docket. You can go to the  
4 NIOSH NORA website -- I'll give you that in a  
5 few minutes here -- and put comments in there.  
6 That will go into the docket and all of these  
7 will be organized, indexed, and categorized.  
8 Then the full comment will go to each relevant  
9 research council. So that stakeholder input is  
10 going into the research council. But we have  
11 surveillance data; we have information about  
12 what the difficult problems are and where  
13 people are getting hurt in a particular  
14 industry and what kinds of injuries are  
15 occurring. We know the surveillance data is  
16 often quite weak in health issues. It's  
17 stronger in injury issues. So the surveillance  
18 data has a lot to offer, but it can't tell us  
19 everything.

20 And then the expertise of the members will all  
21 be combined in a priority setting and decision  
22 making process in the research council, which  
23 will lead to a draft research strategy. That's  
24 not the end. This research strategy will talk  
25 about what the important goals are, how we're

1 going to get there, and who needs to be  
2 involved. That will go up on the web and we'll  
3 invite comments. And we're inviting people to  
4 volunteer to join the research council, but  
5 also to volunteer to be put on a mailing list.  
6 So if you're not checking the website everyday,  
7 and I'm sure many of you have other things to  
8 do, that we can let you know when a new  
9 research strategy is there. We'll invite your  
10 comments on what's been missed, what isn't  
11 emphasized enough, what are the good aspects of  
12 the research strategy that's been drafted. So  
13 it's meant to be a very open process, a very  
14 participatory process, and we'll continue to  
15 invite your participation just as we've invited  
16 you here today.

17 So your participation -- provide input,  
18 volunteer. The next slide talks a little bit  
19 more about that. So your input is going to be  
20 entered into the docket. It's actually  
21 displayed on the website. If you haven't  
22 visited our website, [cdc.gov/niosh/nora](https://www.cdc.gov/niosh/nora), then  
23 please do. There's a place you can put in web  
24 input as text, but to the left of those text  
25 boxes you'll see a link that says view comments

1           by others. We just do a little bit of  
2           filtering to make sure we're not accidentally  
3           putting up one our IT groups' test comments or  
4           somebody who felt like typing casino poker into  
5           the box seven times, but other than filtering  
6           for those everything is there invisible on the  
7           website. So you can see what other people have  
8           put into the docket. If you happen to be in  
9           Cincinnati and want to sit down with a public  
10          docket, the good old way of doing things,  
11          there's a set of files there and it's a public  
12          docket and everyone can look at it.  
13          So this input will be provided, as I mentioned,  
14          to the research councils. The full individual  
15          comment will be there and they'll be some  
16          categorization and some indexing so we can make  
17          sure we get the right comments to the right  
18          research councils and can the lead the members  
19          to the different subjects that they're trying  
20          to deal with that day.  
21          Your input will be outlined at the NORA  
22          symposium. As I mentioned, it's in D.C. in  
23          April and there's information about the  
24          symposium at the website listed. There will be  
25          a set of workshops the last day of the

1           symposium and we'll be providing a brief  
2           summary of what's gone into the docket and  
3           inviting people -- just the assembled group --  
4           to do some initial voting within their sectors  
5           as to what the biggest problems are. Then  
6           we'll have a set of cross-sector workshops  
7           where people can take that input from the  
8           different sectors and say okay, hearing loss  
9           came up here, here, and here. The researchers  
10          are sitting there and they know what's been  
11          done and what are the key things that need to  
12          be done next. So the symposium is going to be  
13          pretty meaty, I hope, and I we'll have some  
14          good output from that to lead forward to help  
15          guide the agenda setting.

16          I believe the next one's my last slide. No,  
17          not yet. Today, specifically, a little more of  
18          the housekeeping, just some suggestions about  
19          the kinds of things that we're interested in.  
20          We're here to listen. We're here to hear what  
21          you want to say about where the information  
22          gaps are and what research needs to be done.  
23          You might talk about some of the top problems  
24          in terms of diseases, or injuries, or  
25          exposures, or what populations are at risk, or

1           where's the system not working. What are the  
2           other groups that should be working with  
3           researchers to make sure the right research is  
4           done and that it makes a difference? And what  
5           is the research that is going to make the  
6           difference in the workplace? As a researcher,  
7           I can think of lots of things I'd like to do,  
8           but with your input we can focus on what's  
9           going to make the most difference.

10          We're asking for very brief presentations. We  
11          realize that in five minutes you can't say  
12          everything that needs to be said. So we're  
13          asking for the highlights. We encourage that  
14          if you have prepared remarks that you give us  
15          those prepared remarks. You can leave them on  
16          the front table here or you can leave them at  
17          the table where you signed in. We'll use those  
18          in two ways. One is that it will make it much  
19          easier for Shane to have accurate spellings in  
20          the transcript, if your remarks that have  
21          peoples' names, organization's names spelled  
22          out. Secondly, we will put your whole set of  
23          remarks into the transcript. I've seen people  
24          come up to the town hall meetings with 15  
25          pages. They can only get through the executive

1 summary in five minutes, but give us the 15  
2 pages. We'll go through that. We'll  
3 categorize it. We'll put it all into the  
4 docket. So we encourage you to do that.  
5 One last point, we're here to listen and to  
6 hear everyone. We're not here to have a  
7 debate. We ask you not to criticize what  
8 somebody else has said before you. If you have  
9 a different opinion and the moderator says  
10 okay, who else wants to come up and say  
11 something -- even if you are not on the  
12 schedule, stand up and give your opinion. We  
13 want to hear it. I don't see the profit in  
14 criticizing what someone else has said.  
15 I want to say thank you. Thank you for coming.  
16 Thank you for your input. Please, register for  
17 the eNews, if you don't already get it. This  
18 is a monthly e-mail that comes to your mailbox.  
19 If you have time you can read some 200-word  
20 summaries of just about everything going on in  
21 NIOSH; lots of the highlights of what's going  
22 on in NIOSH. You can follow what's happening  
23 in NORA. In a couple of minutes a month you  
24 can really keep up with where we are in the  
25 NORA process and so I encourage you if only for

1           that reason to sign up for eNews. You go to  
2           this website and you type in an e-mail address  
3           and that's all you need to do. Please provide  
4           additional input on the NORA website. You can  
5           go there and learn a little bit more about  
6           NORA; provide your input, view the comments by  
7           others. I encourage you to do that. If you  
8           have questions, my e-mail address is there.  
9           Please feel free to use me as a contact for the  
10          NORA process and I'll be glad to try to answer  
11          any questions I can.

12          So with that, I think we'll have a little bit  
13          of the changing of the guard here. I'll ask  
14          Jim McCluskey to come up. He's going to be  
15          moderating the morning session. We'll have a  
16          group of people who will be listening and we'll  
17          have the speakers and let's enjoy and learn.  
18          Thank you.

19          **DR. BROOKS:** Thank you very much. Before we  
20          start, I just want to really thank the people  
21          who really made this conference really  
22          possible. Diana McCluskey and her staff  
23          worked, I know, around the clock and for NIOSH  
24          we worked with Ginny Sublett, someone who I've  
25          worked with for many years. I think the



1 success of this conference is due in big part  
2 to the work of Diana and Ginny. Thank you very  
3 much. Maybe we could take a two-second break  
4 and have our people come up to the podium here  
5 and get started on the second part. I'd like  
6 now to introduce Dr. James McCluskey, who will  
7 be the moderator for this portion of the  
8 program.

9 **REGIONAL AND LOCAL STAKEHOLDER PRESENTATIONS**

10 **MODERATOR: JAMES MCCLUSKEY**

11 **DR. MCCLUSKEY:** Good morning. I'm glad to see  
12 that no one is taking a break. I'm Jim  
13 McCluskey. I appreciate you all coming today  
14 and I think there have been a lot of nice  
15 comments already. So I'll keep mine very  
16 brief.

17 First off, we have a timekeeper over here and I  
18 know it's been asked before, but I will say it  
19 again. This nice lady over here -- if you  
20 could keep it to about five minutes, but my  
21 wife said guess what, you're going to get to be  
22 the heavy. So I am going to get to be the  
23 heavy. Please keep it about five, but if you  
24 go a little bit over and I see that it's not  
25 going to be a 25-minute diatribe we'll let you

1 go on a little bit beyond that.

2 I want to go ahead and start out and how I'm

3 going to do this is introduce four people and

4 if they would please come up to the front and

5 then run in a logical order, either beginning

6 at this side or beginning at the other side and

7 run through them. If you would keep your

8 comments -- if you have some -- what I'm going

9 to do is offer every single time for people to

10 please write down a comment you'd like to make

11 and then at the end of this, before lunch, I'd

12 ask if people want to make a comment or come up

13 and speak that they would do it at that time

14 versus between each one, just so that we don't

15 have a large flow difference between the groups

16 of four.

17 So why don't I go ahead and start out with the

18 first four speakers because that's the

19 important part of this town hall meeting. I'm

20 going to read the persons whether they're here

21 or not. Unfortunately, with our ill weather

22 we're missing a few people and I believe one

23 person had their pipes freeze so I think that's

24 a little more important than this,

25 unfortunately. If any of these people are in

1 the audience please say hey, I'm here or at the  
2 end if you'd encourage those folks we'll have  
3 plenty of time for them to speak. Our first  
4 group of four is Brian Hennessy from the Tampa  
5 area OSHA office, Sherry Carberry from URS  
6 Corporation, Luis Moreno from WBC Construction,  
7 LLC, Pat Stark, I believe, from USF Safety  
8 Florida is not here and then Robert Pavlik from  
9 the University of South Florida/OSHA 21(d).  
10 This will be our first group of four.  
11 Mr. Hennessy, if you want to go ahead and start  
12 out since you're the logical beginning that  
13 would be wonderful.

14 **MR. HENNESSY:** Good morning. I am Brian  
15 Hennessy. I am an assistant area director in  
16 the Tampa OSHA office. The Tampa OSHA office  
17 encompasses 20 counties in central Florida. So  
18 we're really the central Florida area office.  
19 We believe that there are two areas worthy of  
20 NIOSH research relating to workplace falls that  
21 result in fatalities.

22 The first area would be the feasibility and  
23 incomplete structures of the use of  
24 conventional fall protection. The second is  
25 more effective implementation of fall

1 protection systems and plans. Falls continue  
2 to be a major cause of occupational fatalities  
3 in the nation and in Florida. According to the  
4 2004 published BLS data, falls accounted for 14  
5 percent of nationally reported  
6 occupational-related deaths and 17 percent of  
7 the deaths reported in Florida.  
8 During 2004, BLS reported 422 occupational  
9 fatalities in Florida, 75 of which resulted  
10 from falls. If one bears in mind that the BLS  
11 data indicate that 256 of the fatalities were  
12 transportation-related or  
13 violence/assault-related, one gains a better  
14 perspective of the ranking of falls.  
15 If one removes the transportation and  
16 violence/assault categories, falls account for  
17 45 percent of the remaining 166 occupational  
18 fatalities.  
19 Of the 75 fall-related fatalities in 2004, four  
20 were from scaffolding or five percent of the  
21 total, 18 were from ladders or 25 percent of  
22 the total, 26 were from roofs or 35 percent of  
23 the total with the remaining 27 being from  
24 other surfaces.  
25 As this sophisticated group is well aware, OSHA

1 mandates the use of conventional fall  
2 protection while working at elevations in  
3 excess of six feet in most construction  
4 activities and at four feet in general industry  
5 activities. Conventional fall protection is  
6 defined as one, standard guardrail at  
7 perimeters and floor openings or two, safety  
8 nets or three, personal fall arrest systems  
9 consisting of a sound anchorage, a lifeline  
10 connecting the anchorage to a person wearing a  
11 harness; all of which is joined by appropriate  
12 hardware.

13 A major challenge to the implementation of the  
14 use of conventional fall protection has been  
15 the issue of feasibility, especially in the  
16 construction of roofs and the framing of  
17 residences. It is very common for the  
18 residential constructor, especially in the  
19 framing phase, to assert that there is no  
20 structurally sound location that will safely  
21 support anchorages for personal fall arrest  
22 systems. Furthermore, the employer often  
23 asserts that the incomplete structure will not  
24 safely support nets or that surface areas are  
25 so incomplete that guardrails provide no

1 meaningful fall protection.  
2 Despite the introduction of new fall protection  
3 equipment and technologies, their use in  
4 residential construction activities has not  
5 gained not widespread utilization in Florida.  
6 Typically, the residential constructor is a  
7 small employer who lacks the engineering  
8 expertise or the resources to hire the services  
9 of an engineer who can determine when a  
10 partially-built structure can safely support  
11 fall protection systems.  
12 Research is needed to establish proven data  
13 that addresses the application of fall arrest  
14 systems to specific materials at specific  
15 phases of the building process. Such data  
16 needs to be published and made widely  
17 available. Since so many of our structures in  
18 Florida are of masonry construction, specific  
19 data needs to be developed regarding masonry  
20 buildings.  
21 When OSHA implemented its excavation and  
22 trenching standard in the early 1990's, the  
23 standard allowed for shoring systems to be  
24 designed using recognized tabulated data. Much  
25 like the trench shoring systems, fall

1 protection systems can be developed from common  
2 and accepted engineering values. The values  
3 need to be determined and publicized so as to  
4 be far more user-friendly to the small  
5 employer.

6 Beyond the feasibility of fall protection  
7 issues is the challenge of assuring work crews  
8 properly utilize fall protection technologies  
9 and properly implement alternative fall  
10 protection programs in cases where conventional  
11 fall protection is genuinely not feasible.  
12 This challenge is enhanced by the fact that the  
13 workers performing such activities, both  
14 roofing and framing, are often Spanish  
15 speaking. Research needs to be conducted to  
16 determine an effective means of educating the  
17 Hispanic worker whose cultural background may  
18 differ from the traditional worker in the  
19 proper methodologies in using fall protection  
20 systems.

21 A better understanding of when conventional  
22 fall protection is feasible and conversely is  
23 not feasible needs to be established. More  
24 effective means of implementing fall protection  
25 systems and programs need to be developed.

1 Both topics are directly related to fatal  
2 workplace falls and are worthy of detailed  
3 research. Thank you.

4 **DR. MCCLUSKEY:** I would have to say on that  
5 note that he's practiced this more than once.  
6 That was about as perfect as you can get. If  
7 we can have them all like that, I'm going to be  
8 a happy person. Thank you so much for your  
9 comments. Next is Sherry Carberry.

10 **MS. CARBERRY:** My name is Sherry Carberry with  
11 URS Corporation. In preparing for this  
12 statement, I have had conversations with John  
13 Henshaw, the former Director of OSHA and he is  
14 also representing the Florida section of the  
15 American Industrial Hygiene Association.  
16 Things that we would like to state today is  
17 that we know that a lot of the existing  
18 occupational health and safety regulations are  
19 not being followed and we would like to  
20 encourage NIOSH to consider other means of  
21 having people have safe workplaces other than  
22 having more regulations or trying to enforce  
23 the existing regulations.  
24 Some means that we think that will help to  
25 accomplish this are to have partnerships with



1 industry groups, if industry groups can  
2 participate and then see that there is an  
3 occupational hazard. That will lead to a  
4 solution that can be acceptable to all parties  
5 to make the workplace safer. We believe that  
6 industry groups would do it. We also would  
7 like NIOSH to consider partnering with  
8 manufacturers of equipment. If manufacturers  
9 are given some guidance on how to design  
10 equipment that would make it safer, we believe  
11 that they would follow those designs and  
12 there's many things that could be looked at.  
13 Noise, the ergonomics of it, can they add a  
14 safety feature that would not increase cost  
15 considerably, but increase the safe use of that  
16 equipment.

17 We also would like NIOSH to consider to look at  
18 vendors. We have a lot of different vendors  
19 out there selling equipment and products, but  
20 in general we have some big ones. For small  
21 businesses, Home Depot is a major provider of  
22 equipment, supplies, and so forth. If NIOSH  
23 could work with people such as Home Depot and  
24 say these products that you're selling create  
25 hazards in the workplace. Can you only sell

1           these products here that are very similar, but  
2           have safety controls on them and will not  
3           create such hazards in the workplace? Or if  
4           you are going to sell a product that has a high  
5           risk to it, can you some how educate your  
6           buyers that this product has high risks  
7           associated with it, so therefore they can take  
8           the steps to protect themselves?

9           So this is basically going to create a  
10          different way of NIOSH for doing their  
11          research. We're suggesting that they look at  
12          communication skills. How are they going to  
13          communicate these things to the public and to  
14          the workplace and to the owners of the  
15          businesses? Modifying behavior, getting the  
16          public and owners and workers to buy into safe  
17          behavior. That's basically it. We're just  
18          trying to look at different ways of achieving a  
19          safe workplace.

20          **DR. MCCLUSKEY:** Excellent. Thank you so much  
21          for your comments. Mr. Moreno?

22          **MR. MORENO:** Good morning. My name is Luis  
23          Moreno. I'm the director of risk management  
24          for WBC Construction. We are shell contractors  
25          building for residential homebuilders

1 throughout the State of Florida.

2 What a shell contractor is is a company that  
3 gets contracted by homebuilders and builds the  
4 shell of the structure, meaning from the slab  
5 to the sheeting of the roof. The reason I'm  
6 here today is to address and give testimony of  
7 the imperative need of research and the  
8 necessity to have clear and concise guidelines  
9 for roofers while setting trusses and during  
10 sheeting operations within the residential  
11 construction industry.

12 From data collected in 2005, the Bureau of  
13 Labor Statistics shows that falls to lower  
14 levels are the leading cause of  
15 construction-related fatalities and injuries  
16 requiring hospitalization. The study conducted  
17 by the University of Florida shows that roofing  
18 operations were found to be the most hazardous  
19 task performed in residential construction;  
20 with nearly 88 percent of the roofing accidents  
21 ending in a fatality or serious injury that  
22 required hospitalization.

23 In 2003, roofers suffered 21.1 fatalities for  
24 100,000 full-time employees nationwide. This  
25 represents six times higher than the average

1 rate of 3.6 for 100,000 full-time employees.  
2 These results are certainly unacceptable and  
3 need to be reduced.

4 Now, most of us know that the federal OSHA  
5 requirements for fall protection mandate that  
6 the employer provide fall protection to  
7 residential workers who are subject to falls of  
8 six feet or greater to a lower level. This  
9 condition exists to all workers installing  
10 trusses and sheeting roof systems.

11 In '96 the interim fall protection STD 3-0.1A  
12 was introduced to the residential construction  
13 industry. Until 2003, this interim fall  
14 protection was utilized here in Florida. Many  
15 have questioned its effectiveness in reducing  
16 falls from roofs, since the fatality and injury  
17 rate of roofers has been consistently in an  
18 increase or has stayed constant.

19 The interim fall protection may lead to  
20 improvements, but offers no recourse for a  
21 worker who loses his balance. In 2003 and 2004  
22 the office of the director of construction of  
23 OSHA put forth some letters of interpretation  
24 disallowing the interim fall protection 3-0.1A  
25 to be used in dwelling structures that were

1           constructed with masonry concrete walls. This  
2           means that here in Florida all workers on roofs  
3           needed to have conventional fall protection as  
4           prescribed in the OSHA standards 1926.  
5           WTC, the Wood Truss Council of America, in the  
6           guidelines found in the BCSI 3-01, strictly  
7           prohibits the use of an anchorage system on a  
8           single-truss member. Therefore, an employer in  
9           residential construction in Florida must find  
10          other means to protecting workers while setting  
11          trusses and sheeting the roofs.  
12          Because of eventually adopting the WTCA  
13          guidelines under NC/TPI 2002 and the employer's  
14          responsibility to adhere to governing  
15          guidelines in 1910.6 incorporated by reference,  
16          the employer must find other means to properly  
17          protect their workers.  
18          Other systems include a scaffold system that is  
19          placed on the beam or a scaffolding system  
20          erected around the structure of the building,  
21          a net system or possibly a system with a cable  
22          running from one end of a roof to the other.  
23          Unfortunately, none of these resolve the  
24          issues. The scaffold system, although would  
25          relieve some of the exposure, exposes the worker

1 while installation procedures and do not  
2 protect the roofer from falling within the  
3 structure. In some cases, it could be several  
4 floors.

5 A supportive tubular scaffold around the  
6 structure will be completely infeasible due to  
7 the time to erect and the time to dismantle the  
8 scaffold system around a multi-level structure.  
9 The net system cannot be used in all cases  
10 because a span between the window and/or door  
11 openings is too great that would not allow  
12 proper attachment of the net. Also, the  
13 workers are exposed to a fall on the outside of  
14 the structure.

15 The cable system cannot be used while setting  
16 trusses, therefore the workers are once again  
17 exposed to tremendous dangers. It is also  
18 questionable as to how many personnel could  
19 utilize the same cable without exceeding the  
20 5000-pound threshold.

21 Currently, WTCA in unison with TPI, Truss Plate  
22 Institute, are reviewing the guidelines set  
23 forth in the BCS 3-01. This is an opportunity  
24 for NIOSH to partner with these two  
25 organizations as well as manufacturers and of

1 course a private industry like WBC  
2 Construction, DMHC and so forth to be able to  
3 come up with some conclusive answers. I humbly  
4 suggest and request for you and others within  
5 NIOSH to seriously consider funding a project  
6 that will find concise solutions for employers  
7 of roofers within the residential industry.  
8 Thank you.

9 **DR. MCCLUSKEY:** Thank you so much for your  
10 comments. Mr. Stark?

11 **MR. STARK:** Thank you. I'm Pat Stark, safety  
12 and health compliance specialist at the  
13 University of South Florida, the OSHA  
14 consultation program. Good morning. According  
15 to the data available from the OSHA Region Four  
16 office in Florida falls in construction were  
17 the highest accident type for fiscal year 2003,  
18 making up 36 percent of all fatalities in  
19 construction in Florida.

20 In Florida, in fiscal year 2004 falls in  
21 construction accounted for 47 percent of all  
22 construction fatalities. In Florida, in fiscal  
23 year 2005 31 percent of the fatalities were  
24 fall-related.

25 In each of these fiscal years the type of

1 construction and industry work that appeared to  
2 make up the majority of these fatal falls was  
3 the roofing industry. Although it was a bit  
4 difficult to determine from available data, it  
5 appears that a considerable number of these  
6 fatal falls were residential-type construction.  
7 Presently in Florida, which is covered under  
8 the Federal OSHA Standards, the fall protection  
9 height for nonstick framing-type residential  
10 construction is six foot. Unless an employer  
11 can demonstrate that it is infeasible or  
12 creates a greater hazard -- at which time a  
13 fall protection plan -- basically passive fall  
14 protection, can be used.

15 It is interesting that CALOSHA's trigger height  
16 for fall protection is 15 foot and 20 foot  
17 depending on the type of construction. I'd  
18 request that NIOSH research this available  
19 accident fatality data -- these Florida  
20 fall-related construction fatalities, both  
21 commercial and residential.

22 This research would be to determine if existing  
23 Federal OSHA fall protection standards appear  
24 to be in line with the fall-related fatalities  
25 in the construction industry and possibly to



1 determine if fall trigger heights for  
2 commercial and residential construction need to  
3 be increased, such as with CALOSHA, decreased,  
4 or if other non-passive active fall protection  
5 systems need to become part of an updated OSHA  
6 construction standard; a standard that  
7 incorporates more detailed fall protection  
8 systems for residential construction and  
9 residential roofing. Thank you.

10 **DR. MCCLUSKEY:** Excellent. Thank you so much  
11 to the first group of four. In thinking about  
12 this again, just because some people might not  
13 be able to stay until 12:15 and I want to make  
14 certain that everyone's comments are acted  
15 upon. Why don't we switch it to if persons  
16 have comments or would like to add upon these  
17 or have something else that they would like to  
18 speak to that deals with residential  
19 construction. There are two mics at the back  
20 of the floor, if you feel comfortable coming up  
21 and speaking about that we would be more than  
22 happy to hear your comments. I want to offer  
23 that with every single group of four. So if  
24 people have comments, I'll pause for a moment  
25 and if I see someone walking back there then

1 I'll go ahead and let them speak. Okay.  
2 Certainly, we appreciate your comments for the  
3 first four and I appreciate you sticking to the  
4 time. Hopefully, most people will stick to  
5 that. I'd like to call the next group of three  
6 persons, actually because the fourth person in  
7 line is not able to show today and I will be  
8 reading their comments so that you may comment  
9 upon it versus it just being recorded in the  
10 record. Our first person that I'm going to  
11 call is James McConnaughay from McConnaughay,  
12 Duffy, Conrod, Pope, and Weaver, who did make  
13 it from northern Florida and we appreciate it,  
14 Robert Pavlik from the University of South  
15 Florida/OSHA 21(d) Consultation Program and  
16 Charles Lankford from Prince, Incorporated.  
17 Mr. McConnaughay?.

18 **MR. MCCONNAUGHAY:** Thank you, Dr. McCluskey.  
19 My name is Jim McConnaughay and I am a workers'  
20 compensation attorney. You don't have many of  
21 these in safety and health meetings, I'm sure.  
22 I practice in private practice in Tallahassee.  
23 I'm also chairman of the Florida's Workers'  
24 Compensation Institute and the Florida Safety  
25 and Health Institute. Both Institutes being

1            nonprofit associations devoted to trying to  
2            educate persons in regards to the general areas  
3            of workers' compensation and safety.

4            I take a little different slant on workers'  
5            compensation and a different slant on safety.  
6            I consider safety and health in workplace the  
7            same as workers' compensation. Each is  
8            dependent upon the success of the other as to  
9            the relevancy in workplace.

10           I primarily am concerned about the impact on  
11           employers versus a feel-good impact on trying  
12           to resolve accidents that occur in the  
13           workplace. In other words, I'm more interested  
14           in looking at the savings that result to  
15           industry with a competent safety and health  
16           program versus more of an esoteric look at a  
17           feel good presence and trying to reduce the  
18           number of accidents in the workplace.

19           Unfortunately or fortunately, industry's  
20           attention is frequently devoted to what kind of  
21           bottom-line savings are realized as to  
22           profitability of their business in regards to  
23           the attention they give to safety and health.  
24           Based upon my experience in the area of safety  
25           and health as it relates to workers'

1 compensation, I can see that it is in fact the  
2 case, especially in the field of workers'  
3 compensation.

4 I've been practicing workers' compensation law  
5 representing insurance companies and employers  
6 for 30-plus years. If you look at the history  
7 of workers' compensation in Florida you see a  
8 cycle of problems that we've experienced that  
9 have resulted in systemic changes in our  
10 workers' compensation systems in an attempt to  
11 control cost.

12 Going back to 1973, originally there was a  
13 systemic change in our workers' compensation  
14 system. Again, you saw it in 1979, 1990, 1994,  
15 2000, and 2003. It's not unlike every other  
16 state in the Union dealing with workers'  
17 compensation. Every five to ten years the  
18 legislature of a particular state looks at  
19 their workers' compensation law and addresses  
20 what they perceive to be the runaway costs that  
21 are associated with delivering benefits under  
22 the workers' compensation system.

23 The common theme that seemingly always occurs  
24 is trying to reduce costs by reducing benefits  
25 to injured workers. Unfortunately or

1           fortunately, this is the only way seemingly  
2           that industry can estimate potential savings to  
3           the system.

4           In 1989, I was chairman of the Florida  
5           Governor's Commission on Workers' Compensation.  
6           I again served in 1990. In that particular  
7           taskforce we were looking at alternate ways of  
8           saving money in our workers' compensation  
9           system, not just reducing benefits to injured  
10          workers. At that time as chairman of the  
11          Governor's Council on Workers' Compensation, I  
12          quite frankly was sold that the emphasis on  
13          safety and health was the remedy to reducing  
14          costs in the workers' compensation system.  
15          In 1990, indeed, we passed legislation creating  
16          the Division of Workers' Compensation in the  
17          State of Florida. Quite frankly, that turned  
18          out not to be the answer because approximately  
19          ten years later the Division of Safety in  
20          Florida was dissolved.

21          So we in Florida don't have a regulatory agency  
22          relating to safety. This is pretty consistent  
23          with what you see in the industry when there is  
24          a need to cut back the jobs in a particular  
25          industry; it's always safety that goes first.

1           What I would like to do and what I would like  
2           to see a study on in the timeframe that I have  
3           left is the answer to several questions in  
4           regards to the effects of safety and health on  
5           the workers' compensation industry. Obviously,  
6           the creation of a regulatory agency is not the  
7           answer. What I would like to see is the answer  
8           to basically five questions.

9           What impact, if any, does a strong safety and  
10          health program have on overall workers'  
11          compensation costs? Quite frankly, consistent  
12          with my thoughts back in 1989, I would hope  
13          that we could find some proof rather than  
14          anecdotal answers. How can we as an industry  
15          create a strong workers' compensation program  
16          through the use of increased safety and health  
17          emphasis to create the related savings?  
18          Finally, how can we convince the legislatures  
19          in this State that safety and health is indeed  
20          the answer to our problems in workers'  
21          compensation versus reduction of benefits to  
22          injured workers? Thank you.

23          **DR. MCCLUSKEY:** Thank you very much,  
24          Mr. McConnaughay. Dr. Pavlik?

25          **DR. PAVLIK:** My name is Robert Pavlik. I'm the

1 industrial hygiene supervisor for the OSHA  
2 Consultation Program, which has its  
3 headquarters here at the College of Public  
4 Health at the University of South Florida.  
5 Employee exposure monitoring conducted by state  
6 agencies in Michigan and Washington have shown  
7 that employees that perform spraying of truck  
8 bed liners are routinely exposed to airborne  
9 concentrations of methylene diphenyl  
10 isocyanate, or MDI, that exceed the OSHA  
11 permissible exposure limit. Cases of  
12 exposure-related asthma have been reported in  
13 the literature, as well as a fatality in  
14 Michigan in 2003.

15 In conjunction with Federal OSHA compliance,  
16 the OSHA Consultation Program here in Florida  
17 has initiated a special emphasis program to  
18 visit employers who spray truck bed liners to  
19 identify hazards and recommend corrective  
20 measures. Our employee exposure measurements  
21 so far have also shown that employees are  
22 routinely exposed to airborne levels of MDI  
23 that exceed the OSHA permissible exposure  
24 limit.

25 In cases reported in the literature, and in our

1 survey results, employers rely almost entirely  
2 on respirators to protect their employees.  
3 Spray enclosures have very little ventilation  
4 or not at all.

5 At the present time, OSHA allows the use of air  
6 purifying cartridge respirators for protection  
7 against MDI as long as the elements of a  
8 respirator program are in place, including the  
9 implementation of a cartridge-change schedule.  
10 NIOSH recommends that only air-supplied  
11 respirators be used for protection against MDI.  
12 This lack of agreement between OSHA and NIOSH  
13 is confusing for employers, as well as safety  
14 and health professionals. I recommend that  
15 research be performed to determine definitively  
16 whether air purifying cartridge respirators can  
17 be used for protection against MDI.  
18 Associated with this question is the  
19 uncertainty of calculating cartridge-change  
20 schedules. In both the OSHA and manufacturer's  
21 formulas for calculating cartridge-change  
22 schedules there are disclaimers that both high  
23 temperatures and high relative humidity can  
24 drastically reduce the time that cartridges can  
25 be safely used, but give no way to calculate



1           how much the time is actually reduced except to  
2           say that employers should determine this by  
3           experimental methods. Research is needed to  
4           determine how to calculate cartridge-change  
5           schedules more accurately in areas of high  
6           temperatures and relative humidity as found in  
7           Florida and other areas of the southeast in the  
8           summer.

9           Approximately half of the spray-on truck bed  
10          liner employers that we have visited in Florida  
11          use air purifying cartridge respirators to  
12          protect their employees. These same employers  
13          are finding increased applications for the same  
14          polyurethane coating for garage floors, decks,  
15          boats, and other surfaces. In order to protect  
16          the employees for MDI, research is needed to  
17          determine if and under what conditions air  
18          purifying cartridge respirators can be used to  
19          protect employees from exposure to MDI. Thank  
20          you.

21          **DR. MCCLUSKEY:** Thank you so much for your  
22          comments. Next is Mr. Lankford.

23          **MR. LANKFORD:** My name is Charles Lankford. I  
24          am an engineer and a certified safety  
25          professional. I work for a company that does

1 primarily excavation work in construction  
2 in the Tampa area. I'm here to request from  
3 NIOSH to develop a recommended standard for  
4 excavation safety. The competent person that  
5 is required for by OSHA excavation standards  
6 is a person that needs to have the ability to  
7 recognize hazards in excavation and trenching,  
8 as well as have the authority to take  
9 corrective action; however, many demands are on  
10 this competent person. This person needs to be  
11 able to judge whether heavy equipment is too  
12 close to an excavation and trench to pose a  
13 hazard to employees in the trench. The person  
14 is supposed to make judgments whether the  
15 surface encumbrances, such as the sidewalks,  
16 utilities, foundations are too close or can  
17 pose a hazard to the employees in the  
18 excavation.

19 At the same time this person is also supposed  
20 to make judgments whether loads on the surface  
21 adjacent to the trench are excessive or pose a  
22 hazard to the employees. Such loads may be  
23 heavy equipment, may be vibration of heavy  
24 equipment, or may be just moving traffic on an  
25 adjacent roadway.

1           The problem is that a typical competent person  
2           is a person that may be a foreman with a couple  
3           of years of experience on the job and the class  
4           that is supposed to qualify this person as a  
5           competent person by the OSHA standard typically  
6           is a four-hour class. Now, we are to believe  
7           that this four-hour class will qualify this  
8           person and that OSHA does not require him to  
9           have any technical knowledge in soils,  
10          engineering, or any other calculations of  
11          safety factors to be able to make these  
12          judgments that can mean the difference between  
13          the life or death of employees that are in  
14          these trenches.  
15          So typically this four-hour class is just  
16          barely enough to cover basically what the OSHA  
17          standards are and to give an idea what these  
18          hazards might be, but OSHA does not presently  
19          require that this person have any training or  
20          experience in soil analysis or soil  
21          engineering. Basically, this person does not  
22          have the ability to make these kinds of  
23          judgments.  
24          The typical competent person class has a basic  
25          review of soil analysis, which is required by

1           the OSHA standard. The OSHA standard currently  
2           requires both a visual and a manual soil test.  
3           The brief four-hour class is not sufficient to  
4           equip this person with the knowledge required  
5           to properly classify soils in order to make a  
6           determination what protective system is  
7           necessary for an excavation or trench.  
8           The OSHA standard makes a reference to the USDA  
9           classification system as well as the ASDM  
10          D-2488 standards to refer the person for a  
11          proper soil analysis technique. No class that  
12          I've ever seen to qualify a person as a  
13          competent person actually includes the text of  
14          these standards and covers all of these soil  
15          testing procedures. The soil analysis is key  
16          for the competent person to properly decide  
17          what kind of protective system needs to be  
18          installed for the protection of employees.  
19          Thus a competent person typically employed by  
20          construction companies such as mine is not  
21          going to be able to make these types of  
22          technical judgments, even though we would be in  
23          compliance with the OSHA standard by sending a  
24          person to a basic four-hour class.  
25          Now, even three-day classes that I have been to

1 failed to address the detail needed to make  
2 these kinds of judgments that are basically  
3 engineering judgments. This in my view  
4 presents a problem for excavation safety. As  
5 we might know, there's about 50 fatalities a  
6 year in the United States and about 1,000  
7 injuries each year as well from cave-ins and  
8 other excavation hazards. That's where I see a  
9 problem. We need a more detailed curriculum  
10 for these excavation courses that are supposed  
11 to be qualifying these people as competent  
12 persons in excavations. Yet OSHA does not  
13 require anything particularly special about  
14 these competent persons that they require of  
15 competent persons in other areas of the  
16 construction industry.

17 Therefore, I recommend that NIOSH take the  
18 decade -- hopefully, a little sooner than that  
19 -- to develop a recommended standard for  
20 excavation safety in which competent person  
21 qualifications may be spelled out or the class  
22 standards themselves might be approved.

23 Also, a log of inspections by the competent  
24 person, as well as what visual and manual tests  
25 have been done needs to be included as a

1 requirement. Thank you very much.

2 **DR. MCCLUSKEY:** Thank you so much for your  
3 comments, as well as the other speakers. As I  
4 said before, I'd like to encourage persons who  
5 didn't come with prepared comments, but would  
6 like to make some upon these to feel free to go  
7 to the back of the room and comment upon this  
8 or other issues. We have several minutes  
9 before our scheduled break at 10:30 and I'd  
10 like to encourage you if anyone has some  
11 comments, please feel free to join in at this  
12 point.

13 **DR. BROOKS:** I'd like to ask Dr. Pavlik about  
14 this point that you made about the MDI and  
15 these spraying operations that is now being  
16 applied to other types of activities and what  
17 you feel might be making this exposure more  
18 prevalent in the population.

19 **DR. PAVLIK:** Well, most, if not all of the  
20 studies I've seen in literature so far have  
21 been concerned just with exposure measurements  
22 taken for truck bed spraying. The same coating  
23 is very tough. It provides very good corrosion  
24 resistance and it has applications for a wide  
25 variety of surfaces that need protection

1                   against the elements.

2                   I ran into one of the truck bed sprayers down

3                   in Fort Meyers who now has a mobile unit and

4                   he's going out doing boats, decks, garage

5                   floors. They're getting into enclosed spaces.

6                   They're getting into a lot of areas and types

7                   of applications that have not been monitored so

8                   far. He's using air purifying cartridge

9                   respirator because he's out in the field. He

10                  really can't use an air-supplied system. So

11                  I'm concerned that there is going to be a lot

12                  of increased applications for this process and

13                  I think my main point was that OSHA allows the

14                  use of an air purifying cartridge respirator,

15                  but NIOSH does not. It's confusing. Employers

16                  are sure really which way to go. Professionals

17                  like myself are in a situation where we're

18                  recommending what employers should do to

19                  protect their employees and we have confusion

20                  in this matter too because our two main

21                  government agencies are at odds on what type of

22                  respirators are safe and which are not.

23                  **DR. BROOKS:** I think that it's just an

24                  important issue. Adding one thing is that

25                  category of chemicals, the diphenyl

1 isocyanates, are the number one cause of  
2 work-related asthma in the world. They are a  
3 very important sensitizer and they very quickly  
4 produce sensitization and the onset of asthma.  
5 So it represents a potential risk if these  
6 procedures are more widespread. So we could be  
7 seeing more and more cases of asthma in the  
8 community.

9 **DR. MCCLUSKEY:** Are there any other comments?  
10 Well, thank you so much for coming to first  
11 half and we're looking forward to seeing you  
12 again. We'll start up at 10:45 and we'll begin  
13 with the next group of persons. There is  
14 coffee in the back, as well as bathrooms are  
15 readily accessible right outside the door for  
16 both gentlemen and ladies.

17 (Whereupon, a recess was taken from 10:30 a.m. to  
18 10:45 a.m.)

19 **DR. MCCLUSKEY:** Thank you so much and we all  
20 appreciate you all coming back and we're  
21 looking forward to the second half of this  
22 morning's program. As I said, we'd like to  
23 have your comments to add to people who have  
24 stated that they wanted to speak formally. So  
25 we're going to have the microphones available



1           and we'll encourage you to come up after every  
2           group of four.

3           I wanted to go ahead and call up the next four  
4           persons, in addition to let you know that I'm  
5           going to be reading someone's very short, but  
6           detailed e-mail into testimony just so that you  
7           all can make comments upon it if you'd like to  
8           do that. Our next group of four -- I'm going  
9           to be reading for Gene McAvoy from the  
10          University of Florida/IFAS Hendry County  
11          Extension. He was going to talk about  
12          agricultural worker safety research issues.  
13          Rosanna Barrett from the Florida Department of  
14          Health, Lora Fleming from the University of  
15          Miami, Stuart Brooks from the College of Public  
16          Health, and Paul Osley from Chastain-Skillman,  
17          Incorporated. If you four wouldn't mind coming  
18          and Dr. Brooks you're already here.

19          I'd like to go ahead and speak for Mr. Gene  
20          McAvoy who sent an e-mail for it to be read  
21          into testimony. This is one page and he's  
22          speaking about agricultural worker safety  
23          research issues.

24          There are three major issues affecting farm  
25          safety, regulations, education, and

1           engineering. My focus will be on education.  
2           Some needs that my colleagues and I see include  
3           a survey of workers separated by commodity and  
4           job categories that describe the level of  
5           knowledge workers currently have with respect  
6           to workplace safety. Such an effort could help  
7           document an overall need for safety programs  
8           and perhaps target where the priorities should  
9           be placed.

10          Since nearly 91 percent of the farm labor in  
11          the United States are of Hispanic origin, we  
12          should strive for research on how to improve  
13          Hispanic agricultural workers through  
14          education. Number one, a study of teaching  
15          methods to improve instructional effectiveness.  
16          A, how do farmer workers learn? B, are there  
17          differences in learning styles between Hispanic  
18          and Anglo workers? C, what are effective  
19          teaching methods for an adult audience with  
20          less than a fifth grade level of formal  
21          education?

22          In 2001, the University of Florida began a  
23          program addressing the needs of Hispanic  
24          workers and it was designed to provide  
25          education in farm and pesticide safety.

1                   Approximately 10,000 workers have been trained  
2                   in south and central Florida. One big  
3                   challenge is to measure the impact of this  
4                   extension program and this may constitute an  
5                   important area for research and extension.  
6                   Number two, how does safety training influence  
7                   job performance and overall economic  
8                   performance of an agricultural operation? A,  
9                   how effective have educational programs been in  
10                  reducing farm accidents and injuries? B, which  
11                  workers are more vulnerable to farm accidents?  
12                  Is that related to education, age, or number of  
13                  years in the country? C, what is the  
14                  relationship of frequency of training and farm  
15                  accidents? D, what education techniques are  
16                  most effective to train agricultural workers?  
17                  And finally, E, it would be necessary to  
18                  improve farm equipment and manufacture training  
19                  manuals in order to lessen this rate.  
20                  One possibility might be an analysis that would  
21                  measure the impact of educational programs on  
22                  farm safety and identify what we need to  
23                  improve to be more effective in transferring  
24                  agricultural farm equipment safety to workers.  
25                  Number one, a possible strategy would be to set

1 up a cross-sectional study of agricultural  
2 operations. B, describe safety programs and  
3 training activities by company. C, construct  
4 an index of training intensity or create some  
5 other measure that could objectively rank  
6 companies by their training efforts. D,  
7 collect statistics, such as accident rates,  
8 worker sick rates, worker turnover rates, and  
9 worker productivity by task wherever available.  
10 Finally, E, survey worker attitudes towards the  
11 company, looking for a connection between  
12 safety training efforts and worker morale.  
13 We appreciate Mr. McAvoy's comments upon this  
14 issue. We'll now move the other group of  
15 persons who are going to be speaking, and  
16 Ms. Barrett from the Florida Department of  
17 Health is going to be speaking first. We will  
18 ask that each speaker come up to the podium and  
19 since everyone wants to be famous it will get  
20 you right in front of the video, which is the  
21 most important thing.

22 **MS. BARRETT:** Good morning. I'm Rosanna  
23 Barrett. I'm the coordinator of the pesticide  
24 exposure surveillance program at the Florida  
25 Department of Health. I'm here to speak on

1 pesticide-related illness and injury. I'll  
2 first start with an overview of the program and  
3 then go into the problem and the solutions.  
4 There's several occupational indicators that  
5 relate to different illnesses and injuries.  
6 Unfortunately, a lack of funding has restricted  
7 the Florida Department of Health's abilities to  
8 conduct surveillance on most occupational  
9 diseases and conditions.

10 Currently, the Department of Environmental  
11 Health Division focuses surveillance activity  
12 on adult lead poisoning and pesticide-related  
13 illness and injury. A pesticide exposure  
14 surveillance program was established in 1998  
15 through the funding from the National Institute  
16 of Occupational Safety and Health, NIOSH. The  
17 funding source was discontinued in 2002. The  
18 program now operates solely on state funds,  
19 which supports one full-time position. DOA  
20 continues to contribute aggregate data to the  
21 NIOSH sentinel event notification system for  
22 occupational risk and supports prevention and  
23 intervention activities at both the state and  
24 federal levels.

25 For several years, data has been collected to

1 determine the rates of work-related injury and  
2 illness in Florida. The 2000 census data  
3 estimates that 79 percent of civilians are in  
4 full-time employment in Florida. The BLS data  
5 indicates in 2004 that 70 percent of these  
6 workers were employed to occupations of high  
7 risk for occupation morbidity and 15.5 at high  
8 risk for occupational mortality.

9 In 2002, the Florida health status data  
10 indicates that the rate of work-related  
11 hospitalization with primary pay encoded as  
12 workers' compensation was 180 per 100,000.  
13 These rates, though significant, are based on  
14 estimates made from the occupational documented  
15 workers and for illness and injury that have  
16 been presented to healthcare facilities for  
17 treatment.

18 The situation, however, is more complex when  
19 looking at pesticide poisoning. The population  
20 at risk for pesticide poisoning are mainly  
21 comprised of farm workers who are migratory,  
22 usually undocumented, and generally are not  
23 recipients of workers' compensation. Most farm  
24 workers also do not seek medical care for  
25 pesticide poisoning.

1 In 2001, the test data, which is supplied by  
2 the Florida Poison Control Centers, reported an  
3 annual incident rate of two percent for acute  
4 work-related pesticide poisoning. This,  
5 however, is an underestimation of the problem  
6 since only a few cases are captured by the  
7 FPCC. More accurate figures can be obtained to  
8 act as surveillance and through investigations  
9 of incidents.

10 The pesticide program currently operates a  
11 passive surveillance system and relies mainly  
12 on evidence and personal testimonies to  
13 substantiate pesticide poisoning. For the  
14 period 1998 to 2004, the surveillance program  
15 received 1600 pesticide exposure incident  
16 reports with less than 40 percent being  
17 work-related. Only 55 percent of these reports  
18 resulted in classified cases as guided by  
19 NIOSH. Also, more than 80 percent of the cases  
20 are classified. These cases are classified  
21 mainly by evidence provided in the exposed  
22 person's testimony of the exposure and health  
23 effects.

24 Pesticide illness and injury is a reportable  
25 disease in Florida. Although the Florida

1 statute 64-D3 stipulates that healthcare  
2 providers and laboratory personnel should  
3 report the existence or suspicion of the  
4 disease, less than five percent of all cases  
5 are reported by these two entities.

6 Underreporting is likely the result of the  
7 non-specific nature of symptoms of pesticide  
8 poisoning leading to difficulty in diagnosis.  
9 This is further compounded by the reluctance of  
10 physicians to report cases of poisoning without  
11 clear exposure history and conclusive  
12 laboratory findings.

13 In Florida, the absence of a state-wide  
14 monitoring system poses a challenge and a  
15 determination of pesticide poisoning cases. A  
16 monitoring system would provide consistent  
17 analytical data on the level of pesticide and  
18 other chemicals in the tissues and foods of  
19 persons suspected of being exposed to  
20 pesticides or chemicals. Such data would  
21 assist healthcare officials in the early  
22 detection of disease, support diagnosis, and  
23 allow for appropriate treatment and management  
24 of cases.

25 For cases where low-level exposures were not



1 detected immediately, epidemiological studies  
2 should be done to provide more complete  
3 understanding of the health impact. Resources,  
4 financial or otherwise, are needed to support  
5 the operation of monitoring systems and to  
6 conduct active surveillance on epidemiological  
7 studies. Monitoring pesticide poison in  
8 workers should require the collaboration of  
9 stakeholders such growers, state agencies,  
10 universities, laboratories, healthcare  
11 facilities, and community organizations. It  
12 may also require statutes, as well as a working  
13 agreement between partners to ensure  
14 compliance. The combination of expertise from  
15 these areas and state or federal funding  
16 support should ensure the implementation and  
17 success of such a venture.

18 In summary, the DOS Pest and other  
19 state-operated surveillance programs require  
20 the financial support from both state and  
21 federal governments to ensure that these  
22 programs remain viable. There's also great  
23 need for bio-monitoring to test the level of  
24 pesticide in the bodies of persons exposed to  
25 pesticide and for the treatment of workers who

1           have been overexposed to pesticide.  
2           Epidemiological studies should be conducted to  
3           determine causal relationships between  
4           pesticide exposure and health problems. Thank  
5           you for your time.

6           **DR. MCCLUSKEY:** Thank you very much,  
7           Ms. Barrett. Dr. Fleming?

8           **DR. FLEMING:** Good morning. I'm Lora Fleming.  
9           I'm an occupational medicine physician and  
10          epidemiologist at the University of Miami where  
11          I am a professor. First, I want to thank NIOSH  
12          for this opportunity and also for supplying me  
13          with much of my training and education. I am  
14          part of a research group and I'll be presenting  
15          some of our findings concerning health  
16          disparities and U.S. workers.  
17          In the U.S., race and ethnic differences and  
18          socioeconomic differences have a substantial  
19          impact on many aspects of health status,  
20          especially in terms of prevention and  
21          intervention. The reduction of health  
22          disparities is a key objective of the U.S.  
23          Healthy People 2010 to quote, eliminate health  
24          disparities among segments of the population,  
25          including differences that occur by gender,

1 race, ethnicity, geographic location, or sexual  
2 orientation.

3 However, you will note that occupation has not  
4 been identified as a significant factor in  
5 health disparities. With NIOSH funding, the  
6 University of Miami research group has been  
7 exploring the health of all U.S. workers using  
8 the National Health Interview Survey or the  
9 NHIS. It's a household survey of the U.S.  
10 population conducted annually since 1975 by the  
11 National Center for Health Statistics.

12 The NHS has collected demographic health and  
13 employment data on over 600,000 workers age 18  
14 years and older representing 130 million U.S.  
15 workers annually from a sample of the entire  
16 U.S. population. This is a unique resource.  
17 Thus this uniquely representative and large  
18 data base from 1986 to 2003 -- we are using it  
19 to evaluate the issue of health disparities  
20 among all U.S. workers, particularly among the  
21 poor and minority worker sub-populations.

22 In general, the results of our occupational  
23 health disparities research can be summarized  
24 as the following.

25 Poor, less educated workers, particularly

1 workers in minority sub-populations are at a  
2 major disadvantage in terms of their health and  
3 resources in the U.S. For example, we have  
4 already shown that obesity rates have greatly  
5 increased over the past two decades among all  
6 employed workers irrespective of race and  
7 gender, but particularly among black women  
8 workers. Furthermore, average obesity  
9 prevalence rates and corresponding trends vary  
10 considerably across occupational worker groups,  
11 particularly among many blue-collar workers.  
12 Cigarette smoking, a preventable cause of  
13 cancer and heart disease -- morbidity, and  
14 mortality is very high in blue-collar workers.  
15 For example, 58 percent of roofers are current  
16 smokers and are not decreasing over time while  
17 white-collar workers report lower rates. For  
18 example, four percent of physicians are smokers  
19 who have correspondingly downward trends over  
20 time.

21 These same blue-collar workers are also less  
22 likely to have health insurance. In the NHIS  
23 study population between 1997 and 2003  
24 representing 130 million U.S. workers annually,  
25 the annual prevalence of having medical and

1 dental insurance among U.S. workers was about  
2 83 percent. However, the majority of U.S.  
3 workers during that time period had downward  
4 trends of insurance prevalence particularly  
5 among blue-collar workers. So for example,  
6 construction and extractive workers went from  
7 64 percent to 55 percent with health insurance  
8 during this only six-year period, and all of us  
9 bear the burden of those costs.

10 Furthermore, using this same database,  
11 morbidity and mortality rates tend to be higher  
12 and health interventions are lower among  
13 blue-collar workers and minority workers.  
14 Those minority sub-populations reporting the  
15 worse self-rated health are also in the most  
16 racially segregated and lowest paying  
17 professions, such as private household cleaners  
18 and servants, maids and housemen, laundry and  
19 dry cleaning machine operators, nursing aids,  
20 orderlies, and attendants. With respect to  
21 health interventions workers, for example, with  
22 high ultraviolet or UV exposure are less likely  
23 to receive skin examinations. For example,  
24 only six percent of farm workers report a skin  
25 examination from a physician in the past year,

1 while 29 percent of health diagnosing  
2 professions report getting a skin examination.  
3 And even though 41 percent of construction  
4 workers report smoking, only 57 of them  
5 reported being told by their doctor to quit  
6 smoking.

7 Not only does our research illustrate the value  
8 of the surveillance of the health and resources  
9 of the U.S workers, these negative trends and  
10 health indicators and health resources,  
11 particularly for certain sub-populations of the  
12 U.S. workforce are alarming. Specifically, I  
13 just wanted to add with regards to the new  
14 sector-based NORA recommendations that are  
15 being proposed, my fear as both a physician and  
16 epidemiologist is that cross-cutting health  
17 issues which cut across these sectors will not  
18 be studied in an effective and consensus  
19 collaborative way. Thank you very much for  
20 this opportunity.

21 **DR. MCCLUSKEY:** Another perfectly timed. Thank  
22 you so much for your five exact minutes.

23 Dr. Brooks?

24 **DR. BROOKS:** Thank you. I'm Stuart Brooks.

25 I'm the director of the Sunshine Education

1           Research Center at the University of South  
2           Florida. NORA involves a transition from NORA  
3           I, which consists of 21 priority areas of  
4           research emphasizing disease and health to a  
5           sector-based process.

6           As part of this process, NIOSH will recruit as  
7           many stakeholders as possible and establish  
8           numerous partnerships. By adopting the  
9           approach of multiple stakeholder inclusion and  
10          partnership development, NIOSH believes there  
11          will be better achievement of a consensus on  
12          important research initiatives.

13          I wish to offer caution that a process devoted  
14          mainly to building sector-based consensus by  
15          itself may not be successful. The EPA's bold  
16          experiment, the Common Sense Initiative of  
17          regulatory reinvention that was conducted from  
18          1994 to 1998 relied on consensus building.  
19          However, it proved to be relatively ineffective  
20          in the final analysis and other approaches were  
21          found to be more important.

22          Purportedly, NIOSH's sector-based approach  
23          would permit the building of partnerships that  
24          lead to research to practice applications in  
25          the workplace. I wish to voice a concern that

1 a consensus philosophy needs not be the major  
2 criteria in making the final NORA II decisions.  
3 I am concerned that the change to a  
4 sector-based research approach will often  
5 emphasize safety issues, workplace  
6 interventions, and less effectively foster  
7 basic biomedical research, including  
8 biochemical and toxicological studies, but also  
9 diagnostic, clinical, and epidemiological  
10 approaches to important occupational disorders.  
11 I wish to illustrate my concerns by focusing on  
12 one of NIOSH's NORA priority diseases, that of  
13 occupational asthma, a condition that I have  
14 studied for more than 30 years.  
15 Now, throughout the world and especially the  
16 United States, occupational asthma will  
17 continue to be the most important occupational  
18 lung disease during the 21st century. For  
19 about eight to twenty million workers in the  
20 United States there are workplace exposures to  
21 agents that cause occupational asthma.  
22 Perhaps two-and-a-quarter million workers in  
23 the United States have or will develop  
24 workplace asthma. In fact, occupational asthma  
25 is the most frequent occupational respiratory



1 disorder in westernized industrial populations.  
2 Unfortunately, effective surveillance systems  
3 and epidemiological studies for occupational  
4 asthma are limited in the United States.  
5 There's a scarcity of validated epidemiologic  
6 and surveillance research studies in the United  
7 States that examine incidences of occupational  
8 asthma in various industrial sectors and job  
9 categories.

10 Many informative epidemiological studies  
11 originate from outside the United States.  
12 While NIOSH has sponsored a variety  
13 surveillance programs including Sensor  
14 Programs, the number of states with this  
15 program is limited. In Florida, the fourth  
16 largest state, we don't really have a good  
17 surveillance program like Sensor looking at  
18 conditions such as occupational asthma. Thus,  
19 I urge NORA II to emphasize a need for  
20 surveillance for occupational asthma in order  
21 to provide the critical link to practicing  
22 physicians and professionals and to translate  
23 research findings into interventions that  
24 prevent occupational asthma in the workplace.  
25 Now, there may be an advantage using a sector

1 approach since certain industries report  
2 greater risk for occupational asthma. There  
3 are over 250 causes of occupational asthma.  
4 There are many different jobs associated with  
5 its development. I wish to emphasize four  
6 important industries or jobs that might need  
7 further study in the future.

8 An increase risk for asthma is found in the  
9 dental industry. It's found among household  
10 and industrial cleaners. It's found in  
11 spray-on truck bed lining. We talked about  
12 that earlier. It's also found among food  
13 processing and manufacturing.

14 I also want to in the time that I have just to  
15 mention some other areas. That would be the  
16 role of irritants in the workplace and how  
17 further research is needed in that,  
18 particularly with susceptibility. I want to  
19 talk about the issue dealing with the  
20 perception of chemicals and the risk for  
21 chemicals and odors in the workplace and how  
22 that affects individuals. I want to mention  
23 that there are no good diagnostic approaches  
24 for occupational asthma. That specific  
25 inhalation challenges are fought with legal and

1 liability issues, and really there are no  
2 methods for providing that.

3 So I'd like to say that in conclusion that an  
4 expectation for NORA II brings about excitement  
5 for new advances and ideas, and with NORA II  
6 there will be an opportunity to open new  
7 research vistas and make significant inroads  
8 into important occupational disorders, such as  
9 occupational asthma and in accordance with  
10 advances in medical research for other  
11 specialty areas major breakthroughs have their  
12 origin from findings derived from basic  
13 research. And it's important that there be  
14 emphasis on basic research with the  
15 introduction of NORA II. Thank you.

16 **DR. MCCLUSKEY:** Thank you, Dr. Brooks. We  
17 appreciate your comments. Mr. Osley?

18 **MR. OSLEY:** Good morning. I apologize for my  
19 laryngitis. I'm going to do the best I can to  
20 get through this quickly so you don't have to  
21 listen to the scratchy voice. I'm with  
22 Chastain-Skillman here in Tampa. We provide  
23 environmental occupational health services. My  
24 topic of concern is mold impacts and  
25 remediation services in Florida; a hot, humid,

1 and hurricane impacted state.

2 As a result of hurricane-related impacts to  
3 both the Gulf Coast and across Florida, mold is  
4 a pretentious four-letter word for many of us.  
5 Such as, but not limited to, emergency  
6 first-responders, law enforcement, rescue  
7 teams, and primarily workers in the cleanup and  
8 remediation field, not to mention the  
9 homeowner, construction and renovation  
10 contractors, the insurers, industrial hygiene,  
11 public health and safety professionals,  
12 laboratories, physicians, and last, but not  
13 least, the attorneys.

14 There are a few federal and state and generally  
15 agreed upon peer-reviewed scientific-based  
16 guidelines for the evaluation of potentially  
17 hazardous mold conditions or exposures. Not to  
18 mention the lack of governmental regulations,  
19 health-based or otherwise, at any level  
20 stipulating how alleged mold impact and the  
21 result on exposure should be handled.

22 Subsequently, from this cascade of conflicting  
23 mold exposure and potential health-effect  
24 information -- or more times than not,  
25 misinformation -- an unregulated industry of

1 mold assessment and remediation has been  
2 illegitimately spawned.  
3 Consequently, the need for sound defensible  
4 scientific, academic, medical health risk-based  
5 information as it relates to exposure,  
6 assessment and remediation guidelines or  
7 regulations coupled with appropriate levels of  
8 professional training are paramount to protect  
9 our workers from potential mold exposure.  
10 The time is now for NIOSH through the NORA  
11 program and process to take a page out of the  
12 lesson books and learn from the torrid history  
13 and early days of the knee-jerk reactions of  
14 the asbestos inspection and abatement industry  
15 to the current manageable and level of  
16 appropriate asbestos guidelines and regulations  
17 and management programs today. Such an effort  
18 is crucial to ultimately protect those who are  
19 most at risk and those typically taken  
20 advantage of way too often; the less informed  
21 labor work force worker as well as the general  
22 public and community.  
23 In closing, again, now is the time for NIOSH to  
24 act through NORA and to act decisively with  
25 sponsorship of appropriate peer-reviewed

1 scientific, academic, and medical research,  
2 professional certification, and training  
3 programs, governmental guidelines and  
4 regulations, and an adequate financial funding  
5 that will be successful in carrying through  
6 this effort to its complete and beneficial  
7 fruition for all parties involved. Thank you  
8 again for your time. I appreciate your  
9 consideration regarding this request.

10 **DR. MCCULSKEY:** I'd like to thank the first  
11 four individuals who came up and to once again  
12 offer to any of you out in the audience that if  
13 you have comments we have the mics in the back  
14 or take a quick note and I'll certainly give  
15 you the opportunity after every group of four  
16 to say something. So I'm going to encourage  
17 you once again. I'd like to call the next  
18 group of four individuals.

19 **DR. BROOKS:** They've got two people that want  
20 to say something.

21 **DR. MCCLUSKEY:** Wonderful. Why don't you go  
22 ahead and start?

23 **MS. WATKINS:** I'm Joan Watkins. I'm an  
24 occupational medicine physician based in a  
25 hospital. I trained at the Great Lakes ERC.

1 My concern is we recently have diagnosed in a  
2 hospital worker a case of erythema nodosum  
3 majora. This is documented first by a private  
4 dermatologist with biopsy and then by the head  
5 of dermatology here at USF. I removed this  
6 person from the hospital. It's a reaction to  
7 Capozide.

8 My concern is we've already sent her to the FDA  
9 and I'll send it to NIOSH this afternoon or in  
10 the morning. Once hospitals decide to use an  
11 agent, it's everywhere. I just want to see if  
12 there's other people who've had exposure to  
13 that or have had any experience that's similar.

14 **DR. MCCLUSKEY:** Thank you for your comment.  
15 Certainly, if people have comments upon that,  
16 feel free to come to the mic. Yes, sir?

17 **DR. PATEL:** Good morning. My name is  
18 Dr. Prakash Patel. I'm with the Florida  
19 Department of Health in Tallahassee. I work  
20 with Rosanna Barrett. This morning on the  
21 slide show, the doctor from NIOSH -- he showed  
22 me the study and the information -- as  
23 Dr. Brooks mentioned we don't have a central  
24 occupational program. Actually, this year we  
25 applied for occupational funding from NIOSH,

1 but irregardless of whether we get the funding  
2 or not, we're going to start reviewing some of  
3 the data from workers' comp, hospitalization  
4 data, and mortality. We have some data  
5 regarding cancers caused by some of the  
6 chemicals and so we reviewed some of those data  
7 for applications.

8 Anyway, we will continue doing some of the  
9 basic things and in the future when we get more  
10 funding we will conduct more research within  
11 the programs. Thank you.

12 **DR. MCCLUSKEY:** Once again thank you for your  
13 comments. If people have comments upon those I  
14 would encourage them to write them down and at  
15 the next group of four at the ending, we  
16 certainly would welcome your comments.

17 I'd like to deviate from the schedule slightly  
18 just because I had an incomplete schedule as  
19 people showed and didn't show and call four  
20 people who may not be on your schedule and I'll  
21 allow them to introduce themselves. First,  
22 Mr. Bob Nesbit from the University of South  
23 Florida/OSHA 21(d) program, Jessica Bohan, Rosa  
24 Webster from Tampa Electric, and John Byrnes.  
25 If the four of you would please come to the



1 front, I'd certainly appreciate it.

2 **MR. NESBIT:** Good morning. I'm Bob Nesbit, the  
3 program manager for the OSHA Training Institute  
4 Education Center here at the University of  
5 South Florida. I'm going to keep my comments  
6 real brief because three or four speakers  
7 before me have already talked about this  
8 subject. It's to develop a fall protection  
9 best practices for use in the residential  
10 construction industry.

11 From my experiences as an authorized OSHA  
12 trainer and as a consultant in the Florida  
13 Consultation Program, I find that the general  
14 building contractors in the residential housing  
15 construction industry could use a best  
16 practices guide for fall protection in  
17 residential construction. We see lots of  
18 different fall protection systems in use by  
19 this industry, but nowhere can we find a guide  
20 that outlines the best practices for specific  
21 types of residential construction.

22 There are numerous vendors of fall protection  
23 equipment that will tell you that their system  
24 is the best; however, that's not always true.  
25 We need for NIOSH to add this topic to the NORA

1           intervention effectiveness research agenda and  
2           perhaps do some job site intervention research.  
3           Let's look at what vendors offer for fall  
4           protection throughout the nation and determine  
5           the most effective -- determine what most  
6           residential building contractors use on their  
7           construction projects. We need to see what  
8           most residential building contractors are  
9           willing to use and finally, determine how  
10          effective the devices are at preventing falls  
11          and share that information with us. It would  
12          also be good to know how easy and how the most  
13          effective devices are setup to use and  
14          maintain.  
15          Maybe, your research could be the basis for an  
16          industry best practices guide. Such a guide  
17          can be used as a tool to encourage residential  
18          building contractors to adopt procedures and  
19          equipment for preventing falls. A best  
20          practices guide for fall protection in  
21          residential construction could also be used as  
22          a classroom manual for teaching new general  
23          contractors, superintendents, project managers,  
24          safety directors, and supervisors and workers.  
25          Most often we hear builders tell us that

1           there's no good way for them to provide fall  
2           protection for their trades, or that trades are  
3           responsible for providing their own fall  
4           protection equipment, or that they are exempt  
5           from providing fall protection for one reason  
6           or the other.

7           In any case, there were 1,224 fatal accidents  
8           in construction in 2004. Of these, 441 were in  
9           residential construction or remodeling. One  
10          hundred and ninety-seven of these fatal  
11          accidents were from falls. There were 84 fatal  
12          falls out of a total of 364 fatal accidents in  
13          residential construction in 2003. The numbers  
14          are similar for the past ten years.

15          So we hope with NIOSH's help and the NORA  
16          intervention survey that we can make some  
17          difference in the next ten years. I appreciate  
18          you giving us the opportunity to speak and  
19          thank you very much.

20          **DR. MCCLUSKEY:** Thank you very much,  
21          Mr. Nesbit. Ms. Bohan?

22          **MS. BOHAN:** Good morning. My name is Jessica  
23          Bohan. I'm from the University of South  
24          Florida OSHA Consultation Program. My proposal  
25          for NIOSH this morning is to study the impact

1 of applicable and accessible training for those  
2 workers who work in the highway work zones.  
3 I brought my safety vest today to ask you when  
4 you see this color, what do you think? I think  
5 construction's coming, I'm going to be late,  
6 I'm going to be delayed, and a lot of feelings  
7 of frustration come up. I bring this up  
8 because roadside construction is a way of life.  
9 Wherever we go or what state we're in, we could  
10 be on a federal road, a city or county road,  
11 it's a widespread industry.  
12 I'm concerned about it today because the truth  
13 of the matter is 100 people a year and 20,000  
14 people a year are injured -- I mean, 100 people  
15 die and 20,000 are injured. The emotional and  
16 economical impact of this industry is something  
17 I can't even fathom. You may wonder how are  
18 they dying? Is it the motoring public that are  
19 killing these workers? Well, that's half of  
20 it. The other half is the workers are dying in  
21 the work zone, not from the motoring public,  
22 but from work practices that they're facing  
23 every day.  
24 Historically, we have approached roadside  
25 safety from the motoring public point of view.

1 We've increased the efficiency of the personal  
2 protective equipment. We've looked at  
3 improving the barrels and engineers have worked  
4 to design the actual traffic flow better to  
5 reduce confusion. We've also included law  
6 enforcement here in Florida to help inspire  
7 people to slow down.

8 Even though these changes are very positive, we  
9 still have people dying each year. Heinrich's  
10 Law of Safety basically says that unsafe acts  
11 are the reasons we have injuries in near  
12 misses. So I ask you today if you don't know  
13 how to do something properly, then how can you  
14 do it right?

15 I was at a hockey game over the holidays. I  
16 love ice hockey, especially the fighting. The  
17 zamboni driver came out and he went around the  
18 ice and he cleaned it. I've been to hockey  
19 games all over the country and I thought how  
20 does the zamboni driver know always to clean  
21 the ice in that direction? Well, he or she  
22 obviously has been trained. So why aren't we  
23 training the workers inside the work zone?  
24 The current regulations that we have on the  
25 Manual of Uniform Traffic Control Devices,

1 otherwise known as the MUTCD, and the  
2 Occupational Safety and Health Administration  
3 OSHA standards. They really only apply to  
4 flagger training. There's really no guidelines  
5 or regulations for those workers inside the  
6 work zones.

7 Donald Trump once said I only work with the  
8 best people. What he meant was in his  
9 organization he's the general in command,  
10 similar to an army or the Marines. He knows  
11 that every decision he makes will affect the  
12 lives of those people working for him.

13 Although Donald Trump is a financial and real  
14 estate man, I think it's applicable to the  
15 roadside work projects. The crew leaders  
16 typically are the Donald Trumps of the  
17 construction site. They make decisions every  
18 day that affect the lives and safety of their  
19 workers.

20 So my proposal for NIOSH is to look into why  
21 don't we have any specific guidelines for these  
22 workers. Workers on foot are the ones who are  
23 being killed. They're being run over. They're  
24 being rolled over. They're being crushed. All  
25 of these, I believe, are preventable through

1           knowledge and education. Knowledge gives us  
2           tools, tools give us the ability to make good  
3           decisions and help those who can't. So let's  
4           give them the opportunity to also work with the  
5           best. Thank you.

6           **DR. MCCLUSKEY:** Thank you, Ms. Bohan. I liked  
7           your piece that you brought along and I  
8           encourage that from other people. That always  
9           makes it interesting. Ms. Webster from  
10          Tampa Electric Company.

11          **MS. WEBSTER:** Good morning. I'm Rosa Webster  
12          with Tampa Electric Company. I'm the  
13          coordinator of safety and health there. This  
14          morning I come to present to you one of the  
15          challenges that Tampa Electric Company is  
16          facing and that has to do with the aging  
17          workforce.

18          Within our work environment we have longevity.  
19          The average worker for Tampa Electric Company  
20          has been there 25 years. The average age of  
21          our employee is 47 years of age. As a result  
22          of that we would like for NIOSH to look at  
23          studies having to do with ergonomics and  
24          focusing on body mechanics as it's related to  
25          the aging workforce.

1           As a result of our workers' age and their  
2           decline in flexibility, there's difficulty as  
3           far as them being able to maneuver into some of  
4           the confined spaces that we have at our  
5           facilities. Also, the American worker no  
6           longer averages 170 pounds. It's well above  
7           that. So when you start looking at ladder  
8           safety, handrails that are rated at 200 pounds,  
9           it no longer meets the sufficiency of what our  
10          average American worker looks like.  
11          So as employers we are faced with challenges of  
12          trying to provide a safe workforce within the  
13          guidelines that the federal regulatory agencies  
14          have given us; however, within the  
15          manufacturing sector, they may not be producing  
16          that equipment that is necessary in order to  
17          maintain that.  
18          The individuals that we feel that should be  
19          involved as a part of this is not only the  
20          private sector, as well as the governmental  
21          sectors -- the engineers that are designing new  
22          equipment, new generators, new power lines  
23          throughout the industry. There needs to an  
24          engineering design taking place as a part of  
25          this.



1           The best person that tells you how to do a job  
2           is the person that does it day in and day out.  
3           I think we need to look at the average worker.  
4           We need to reestablish what does the American  
5           worker look like in today's society and where  
6           is America going over the next 10 years, over  
7           the next 20 years, over the next 50 years. We  
8           need to provide safe workplaces for those  
9           individuals to be able to come in day in and  
10          day out and leave in the same state that they  
11          came to work in. Thank you for your  
12          consideration.

13          **DR. MCCLUSKEY:** Thank you so much for your  
14          comments. Dr. Byrnes?

15          **DR. BYRNES:** Thank you. Before I make my  
16          statement I'd like to say that my comments are  
17          going to address all sectors and I have a  
18          one-page written narrative in the back if  
19          anybody would like a copy of it. Conventional  
20          means of managing workplace aggression have  
21          failed us. To this end we hear comments or  
22          topics like conflict resolution and anger  
23          management. There are individuals who express  
24          their conflict with a demonstration of  
25          violence. So if we truly want to prevent

1 violence we must also prevent conflict.  
2 Conflict resolution and anger management are  
3 fatally flawed. You see, conflict resolution  
4 presupposes conflict. You're already reacting.  
5 You're past any chance to prevent it. If all  
6 you do is react to aggression, eventually  
7 you're going to come upon that individual who  
8 does not communicate verbally. This person  
9 communicates physically and they strike out.  
10 Worse yet, they could have a weapon.  
11 Everybody says well, where did that come from?  
12 It came because no one was observing prior to  
13 conflict. I see a lot of nodding heads out  
14 here.  
15 Anger management is equally as flawed because  
16 you and I can experience and express the same  
17 anger differently. Therefore, the great  
18 universal axiom is if you can't measure it, you  
19 can't manage it prevails.  
20 Thirteen years ago, we discovered and developed  
21 the means to measure human aggression. Through  
22 our ability to measure aggression in others and  
23 in ourselves enables us to manage aggression in  
24 others and in ourselves, but here's the key.  
25 It enables us to measure aggression even prior

1 to conflict. Thereby enabling us to even  
2 prevent -- I repeat -- prevent the conflict in  
3 the first place.

4 When you look at the last four shootings that  
5 have occurred; the ConAgra shooting, the Jeep  
6 plant in Toledo, Ohio, the U.S. Postal Service  
7 experience, and of course, the Martin Marietta  
8 shooting, these were individuals who came into  
9 the workplace and expressed their conflict by  
10 shooting and killing people. If you're relying  
11 on conflict resolution, you're already way too  
12 late.

13 I particularly like the Martin Marietta  
14 circumstances because here's an individual who  
15 left his sensitivity training class, went out  
16 and got and his weapons, came back in and shot  
17 and killed six people. This man had taken  
18 anger management only six months before. These  
19 programs are not working.

20 Have you ever wondered why when you have an  
21 incident and you've got people standing around  
22 and why these people never got involved. Oh, I  
23 knew that Bob was that way. I knew that Bob  
24 was eventually going to attack someone. Why  
25 didn't they get involved? Well, the answer is

1 simple. They didn't perceive it as in their  
2 best interest to do so. Well, the ability to  
3 measure aggression enables us to foresee  
4 conflict coming. Because we can foresee  
5 conflict coming we can now see ourselves  
6 becoming a victim. Now there's the reason or  
7 impetus to get involved.

8 Over the last 13 years we've actually seen this  
9 paradigm shift occur. Why would an employer  
10 get involved when they know that there is a  
11 cost of time and talent, but also the cost of  
12 this kind of training? That's brought me to  
13 Aon Corporation in the first place. They  
14 conducted a survey in the United Kingdom of the  
15 Royal Mail where they identified the cost of  
16 employee friction. Now, we're not talking  
17 violence or human crisis here. We're talking  
18 about simple employee friction which was  
19 costing them 247 million pounds a year. What  
20 they identified and more importantly measured  
21 was when you have an aggressor in your  
22 organization nobody else wants to be there.  
23 People come in late. They go home early. They  
24 stay longer at lunch. There's even a new term  
25 called presenteeism. It means you've got

1 someone present, but they're so distracted, in  
2 this case because of aggression, they're not  
3 productive.

4 So we're able to demonstrate a direct link  
5 between aggression in the workplace and  
6 productivity based upon tardiness, absenteeism,  
7 and then ultimately turnover. People would  
8 rather go somewhere else making less money so  
9 they can feel safe.

10 Over the last 13 years, we have been measuring  
11 aggression anecdotally. We would like very  
12 much to be able to measure it empirically, to  
13 set a standard that all can build from. So we  
14 are very interested in a grant research partner  
15 to start doing this measurement so we can put  
16 it out to all sectors of the industries. So  
17 that way we can start to prevent conflict,  
18 prevent violence, and ultimately increase  
19 productivity by the diminishing of that  
20 tardiness and absenteeism linked to this  
21 aggression. Thank you all very much.

22 **DR. MCCLUSKEY:** Our schedule continues to  
23 modify, but I'm going to go ahead and ask for  
24 primarily healthcare people. I appreciate your  
25 comments from the floor. They were definitely

1 very interesting. Our next group is Mary Matz  
2 from the Veterans' Health Administration,  
3 Richard Johnson from Lakeside Occupational  
4 Medicine Centers, PA, Joseph Doyle from Aetna  
5 Disability Services, and William Tomlin.

6 **DR. MATZ:** Good morning and welcome to all of  
7 our visitors. I'm a native Tampa person here  
8 and so it's just really exciting to have you  
9 here with us in such a nice situation and where  
10 we can learn from everybody out here.

11 I'm Mary Matz. I'm with the Veterans' Health  
12 Administration. I am a patient care ergonomics  
13 consultant with them, as well as an  
14 occupational health science researcher and  
15 industrial hygienist. I will be speaking on  
16 behalf of the VHA, although I've already done  
17 this one other time in Houston. We have a lot  
18 of things that we want to get out on the table.  
19 So I'm fortunate enough to be here again.  
20 As the largest healthcare organization in the  
21 United States, VHA has a unique vantage point  
22 for identification of important occupational  
23 safety and health issues. I'm going to briefly  
24 discuss three of them today. The other five I  
25 already discussed in Houston.

1 First topic, strategies for implementation of  
2 evidence-based programs and best practices.  
3 Change strategies are needed to facilitate  
4 management and employee acceptance of new  
5 research findings and best practices, not just  
6 in the healthcare, but other areas also. This  
7 lag in implementing evidence-based strategies  
8 has been noted across healthcare. In fact, it  
9 is estimated that it takes over 17 years for  
10 healthcare facilities to adopt new evidence,  
11 and it's been found that only a moderate  
12 proportion of nurses use research as a  
13 foundation for their nursing practice.  
14 Studies that increase the understanding of  
15 management barriers and facilitators for  
16 adopting patient handling evidence-based  
17 practices would provide essential information  
18 for use in marketing efforts to overcome  
19 implementation obstacles. And because of the  
20 unique nature of clinical specialty areas,  
21 studies to determine barriers and drivers  
22 specific to each clinical specialty are needed.  
23 Due to the significant costs associated with  
24 evidence-based controls, such as  
25 patient-handling equipment, cost benefit and

1 return on investment studies would be helpful  
2 in persuading management to institute ergonomic  
3 programs. As well, research into patient  
4 handling productivity will assist in  
5 comprehensively defining cost benefits when  
6 justifying patient care ergonomic interventions  
7 and evaluating equipment for adoption by  
8 healthcare organizations.

9 Successful implementation of evidence-based  
10 programs in healthcare is also affected by the  
11 widely accepted belief by nurses that nursing  
12 safety should be sacrificed in favor of patient  
13 safety and quality of care. This belief  
14 diminishes nurses' acceptance of interventions  
15 and interferes with safe patient handling  
16 program intervention. Suggestions for research  
17 include determination of causes of the  
18 sacrificial mindset and the resulting  
19 non-acceptance and compliance with new safety  
20 strategies and best practices. Intervention  
21 studies using knowledge-transfer mechanisms  
22 that promote empowerment such as use of After  
23 Action Review are also suggestions.

24 Finally, implementation of evidence-based  
25 programs may be facilitated if data can



1 positively relate patient handling to patient  
2 outcomes and quality of care, such as using  
3 falls, skin integrity, sprain strains, and  
4 others.

5 My next topic is workplace violence in  
6 healthcare and I previously spoke on this in  
7 Houston, but we actually came up with some new  
8 data and some new findings so I wanted to  
9 address it again.

10 Violence in the workplace, both physical and  
11 psychological, is a major workplace health  
12 hazard in the United States. Almost two-thirds  
13 of non-fatal assaults at work happen in  
14 hospitals, nursing homes, and facilities that  
15 provide health or social sciences. A recent  
16 survey of nurses in a VA Medical Center found  
17 that the majority of both physical and verbal  
18 assaults were client-to-staff and that the  
19 safety climate may be an important element in  
20 the potential for assault and abuse. The study  
21 of organizational factors and unit  
22 organizational climate influence on the risk of  
23 workplace violence may shed light on this  
24 subject. What is the effect of the unit  
25 culture on reporting incidents as well as the

1           opposite, the impact of zero tolerance on the  
2           culture of the unit, including perceived stress  
3           and job satisfaction? How does the accepted  
4           paradigm in healthcare that patient/staff abuse  
5           is part of the job affect risk and how does  
6           personal abuse outside of the work, including  
7           intimate-partner abuse affect care giving and  
8           tolerance for abuse at work?

9           And I have one more page, but I understand that  
10          I'm out of time.

11         **DR. MCCLUSKEY:** At least mention it, briefly.

12         **DR. MATZ:** Patient handling musculoskeletal  
13         injury prevention. We are lacking in many of  
14         the indicators that we need for determining  
15         thresholds for cumulative injuries, as well as  
16         indicators for when patients and workers  
17         actually get to the point where they know that  
18         they need to report their injury. So this is  
19         another concern of ours and you will get it in  
20         written form. Thank you.

21         **DR. MCCLUSKEY:** Thank you so much. We  
22         appreciate your comments. Dr. Johnson?

23         **DR. JOHNSON:** I'm Richard Johnson and I do  
24         occupational health in the Tampa Bay area. You  
25         may think that this is actually a vest for

1 highway construction, but it's actually a  
2 required deer hunting color vest from Wisconsin  
3 that you have to wear so that people don't  
4 shoot you. They only had 1800 people in  
5 Wisconsin shot during deer hunting season in  
6 1910, and they thought that was a good year.  
7 I'm not here to talk about that.

8 Although, it somewhat relates in that what we  
9 struggle with every day in our practice is  
10 trying to identify what is degenerative versus  
11 what it's an injury. With the aging workforce  
12 and your aging nurses, and with the stock  
13 market up and down and everybody lost their  
14 retirement a few years ago, nobody is able to  
15 retire when they wanted to. We have older and  
16 older workers having more expensive injuries  
17 all the time, which most of the time, at least  
18 in my medical/scientific opinion, are  
19 degenerative conditions, not injuries.

20 In the area of lung disease, we have B readers  
21 who will tell us what certain lung conditions  
22 are according to X-rays because they have  
23 criteria. We now have CT, spiral CT, MRI,  
24 X-ray, all kinds of sophisticated ways to  
25 evaluate a knee joint, yet we can't determine

1           if it's a knee strain that the employer should  
2           pay for that new knee versus a degeneration,  
3           which is actually the major contributing cause.  
4           It goes with shoulders, too. A great example  
5           is a guy laying down and tightening a bolt and  
6           he experiences a shoulder strain. The end of  
7           case is total disability and big settlement for  
8           the employer because he has Parkinson's  
9           disease. Clearly, the neurologist says it's  
10          not work-related, but the compensation judge  
11          says he was working, he got hurt, now he can't  
12          work and therefore it's comp. So the problem  
13          isn't just a medical definition of what's  
14          degenerative and what isn't, but it's in the  
15          court system as well. Without the help of good  
16          scientific research to say no, based on this CT  
17          finding, this MRI finding your knee is  
18          degenerative and it's not work-related. You  
19          may have had a little strain on top of it, but  
20          then we get into the whole cost issue of who's  
21          going to buy his new knee when he isn't ready  
22          for Medicare yet and he doesn't have insurance  
23          because he works for one of those contractors  
24          who can't afford to buy it anymore. Those are  
25          all of the kinds of issues.

1 Cumulative trauma is another one. That, in my  
2 opinion, is often just degeneration again. The  
3 employer is buying the medical care, which  
4 otherwise couldn't be afforded. When you think  
5 of this, think of deer hunting. Thank you.

6 **DR. MCCLUSKEY:** Thank you, Dr. Johnson, we  
7 appreciate your comments. Dr. Doyle?

8 **DR. DOYLE:** I might use that if I go quail  
9 hunting. Good morning. I'm Joe Doyle. I'm  
10 the regional medical director with Aetna  
11 Disability Services here in Tampa. I'm going  
12 to make three major comments -- a lot of them  
13 actually related to some of the ones you've  
14 already heard. The first one is about  
15 workplace wellness programs. During the past  
16 decade, several health insurers, including my  
17 own, and our vendors have developed wellness  
18 programs and disease management programs. Many  
19 of our larger employers have onsite fitness  
20 facilities and occupational clinics and health  
21 clinics. Dr. Francois kind of alluded to  
22 Citigroup. This encourages people to tend to  
23 their health and wellness activities during the  
24 workday. However, with more of the economic  
25 growth in recent years occurring in small and

1 medium-sized businesses, access to these  
2 wellness and disease management programs may be  
3 problematic for employees in these settings.  
4 Additionally, workers are being exposed to more  
5 stress and physical activity due to longer  
6 commutes and engagement in sedentary  
7 knowledge-based occupations. Disability  
8 claims, we've noticed in our claims experience,  
9 are increasing for depression, stress anxiety,  
10 and obesity.

11 Research is needed to assess the scope of this  
12 issue, as well as creative suggestions for  
13 insurers and employers to increase worker  
14 participation in these programs and to reduce  
15 time lost from work for mental health and  
16 obesity problems.

17 My second comment involves disability leave and  
18 graduated return-to-work programs. For some  
19 workers returning to the workplace after a  
20 disability leave -- graduated return-to-work  
21 strategies such as midweek restart, part-time  
22 hours, and reduced physical demand, also known  
23 as light-duty, can be useful in affecting a  
24 successful return to work.

25 However, some employers are reluctant to make

1 accommodations or to accept less than a  
2 full-duty medical release based upon a fear of  
3 a possible on-the-job injury and potential  
4 workers' compensation claim. Here we feel that  
5 research is needed to assess the validity of  
6 employer concerns about the potential workers'  
7 comp claims and to develop best-practice  
8 guidelines for graduated return to work.  
9 My final comment deals with the aging  
10 workforce, lifelong learning, transferable  
11 skills, and productivity. Due to the natural  
12 aging process, some workers are unable to meet  
13 the physical demands of a medium and heavy  
14 occupation later in life prior to retirement,  
15 and may find themselves in a situation where it  
16 is unsafe for them to perform their own regular  
17 occupation. Often they are forced into  
18 disability retirement with the private sector,  
19 long-term disability, or Social Security  
20 disability, or as Dr. Johnson suggest even  
21 workers' comp.  
22 Here we feel that research is needed to address  
23 the best manner of assisting the U.S. workforce  
24 in the acquisition of skills that would enable  
25 them to transfer into sedentary and light

1 physical demand occupations, if and when their  
2 physical capability for their usual and  
3 customary occupation diminishes.

4 Some solutions may involve public policy  
5 initiatives, such employer and employee tax  
6 incentives, onsite education, and distance  
7 learning. Thank you.

8 **DR. MCCLUSKEY:** Thank you, Dr. Doyle.

9 Mr. Tomlin?

10 **MR. TOMLIN:** Hello. My name is William Tomlin  
11 and I'm with the University of South Florida.  
12 I'm an industrial hygienist working with the  
13 21(d) Program here. I'd like to suggest that  
14 NIOSH needs to look at exposure to silica at  
15 our construction sites, specifically looking at  
16 masonry tile workers and block masonry cutting  
17 workers over there.

18 Everybody understands the hazards associated  
19 with silica. It's one of the most studied  
20 toxic materials that NIOSH has looked at. We  
21 know that a restrictive and obstructive lung  
22 disease associated with that -- and there's a  
23 20-year latency period before the onset of some  
24 of the diseases.

25 As a personal note, my grandfather died of a



1 restrictive lung disease associated with the  
2 construction industry. He was a cement worker.  
3 They called him the mud man. He mixed the  
4 cement there. Towards the end of his life he  
5 couldn't walk across the room. I'd tell  
6 training classes that he suffocated in a room  
7 full of oxygen based on his exposure to silica.  
8 In the south Florida area, we're seeing a lot  
9 of masonry tile work going in with the  
10 explosion of the housing boom. A lot of the  
11 local communities and some of the builders are  
12 requiring that masonry tile be used. To  
13 install a masonry tile roof it has to be  
14 trimmed. Therefore the workers there are  
15 trimming the masonry tile while working in an  
16 elevated situation, exposing themselves to fall  
17 hazards, but more importantly exposing  
18 themselves to a significant amount of silica.  
19 Our studies that we've done working with these  
20 workers show that every time we monitor those  
21 workers in that situation, they've been  
22 overexposed; both in masonry block cutting and  
23 in the masonry tile situation.  
24 Currently, the only control method that they're  
25 using to reduce this exposure is personal

1 protective equipment. We see that a lot.  
2 NIOSH has talked about different methods, but  
3 the only one we see out there are the filtering  
4 face pieces. With that filtering face piece,  
5 we're seeing a lot of misuse or not use of the  
6 material.

7 Therefore, I'd like NIOSH to get together with  
8 the roofing manufacturers and some of the local  
9 exhaust manufacturers and come up with an  
10 engineering control that they can use in that  
11 situation to reduce their exposures or at least  
12 come up with a best practices method. We feel  
13 like the use of personal protective equipment  
14 to reduce this exposure is not doing what it  
15 needs to do. Thank you for your time.

16 **DR. MCCLUSKEY:** Thank you so much, Mr. Tomlin.  
17 Our next group of four is Ms. Linda Horner from  
18 Safety Products, Incorporated, Keith Brown from  
19 USF Safety Florida OSHA Consultation Program,  
20 Pete Rentos from the University of South  
21 Florida, and Roy Wood from the Florida Division  
22 of Workers' Compensation. Ms. Horner?

23 **MS. HORNER:** Good morning. My name is Linda  
24 Horner and I work for Safety Products,  
25 Incorporated as a field products specialist. I

1 assist our customers with product information,  
2 training, and sales. Prior to my employment  
3 with Safety Products, I worked for the Florida  
4 Safety Council and the National Safety Council  
5 for about nine years. As manager of the  
6 central Florida Occupational Safety Division I  
7 was responsible there for membership services,  
8 program development, and class coordination.  
9 It was during my time with the Safety Council  
10 that I became very aware and concerned about  
11 the volume of violent threats and incidents,  
12 which my members were experiencing.

13 Our members consisted of a broad spectrum of  
14 industries in the public and private sectors.  
15 We offered a safety management class at the  
16 time called Preventing Workplace Violence. I  
17 made it a practice to routinely ask our members  
18 about their workplace violence concerns. One  
19 hundred percent of employers asked responded  
20 that they had experienced either a violent  
21 incident or the threat of violence from an  
22 employee, from a coworker, or a coworker's  
23 acquaintance.

24 I'm still dismayed and surprised that I did not  
25 find a single person at that time who had not

1           been affected by this area of concern. In 1993  
2           I had my own experience with the threat of  
3           violence during my workplace at a medical bill  
4           review company. Unbeknownst to anyone at our  
5           company, one of my coworkers was a cocaine  
6           addict. When she didn't pay her drug dealer,  
7           he shot her. When she was released from the  
8           hospital she didn't return home, but she did  
9           return to my workplace. We ended up hiring an  
10          armed guard to sit outside our office door  
11          after the dealer made a threat to come to the  
12          office to finish the job and kill her and  
13          whomever happened to be nearby.

14          I tell this story not for drama, but to make a  
15          point. Statistics right now do not tell the  
16          full story, and many incidents are still not  
17          reported to public authorities. This incident  
18          wasn't reported to the Bureau of Labor. It  
19          wasn't reported to OSHA. It wasn't reported to  
20          any other agency. Yet it occurred and it was a  
21          very serious threat to the lives of an entire  
22          group of office workers.

23          According to a 1998 Reuters' article titled  
24          Homicides are now the second cause of U.S. jobs  
25          deaths it also reported that more than half of

1 all workplace victimizations were not reported  
2 to the police or to any other authority. I  
3 believe that new training and best practices  
4 would make a difference. Statistically,  
5 workplace homicides and violent incidents have  
6 decreased since 1998. I would attribute that  
7 to greater awareness of suspicious or  
8 concerting behavior, as well as the development  
9 of training programs like the one offered by  
10 the Safety Council.

11 Numerous public agencies and large employers  
12 like DuPont and the Post Office are including  
13 workplace violence prevention in their internal  
14 safety programs. Also, post 9-11 more  
15 companies began evaluating their security risks  
16 and international threats beyond the threat of  
17 just a disgruntled employee or family member.  
18 Proactive employers can now easily obtain  
19 similar programs and support through agencies  
20 like OSHA, Bureau of Labor, and numerous  
21 Internet sites and services. Without a doubt,  
22 these efforts have contributed toward a  
23 decrease in the number of workplace homicides.  
24 I would like to request that NIOSH take a look  
25 at doing some research into effective safety

1 training programs and best practices that  
2 employers can implement to decrease the risk of  
3 their workers in the workplace. According to  
4 the 2004 Bureau of Labor report, homicides have  
5 moved from the number two cause of workplace  
6 fatalities to number three now; behind  
7 transportation incidents and contact with  
8 objects and equipment. This decrease is a  
9 great thing, but it's still a non-regulated  
10 hazard and it's still a contributing factor to  
11 a large number of workplace fatalities every  
12 year. As a non-regulated factor this means  
13 that unlike some other high fatality hazards,  
14 employers are protected and prevention measures  
15 are enacted only at the whim of their employer,  
16 even though workplace violence affects every  
17 industry and even though it is a major  
18 contributor to workplace fatalities and even  
19 though it's very cost-efficient for employers  
20 to take a proactive and preventative stance  
21 with training and supervisor awareness  
22 programs.

23 I want to make one final point on that.  
24 Workplace fatalities are often accidents. Most  
25 of the things that we're going to be hearing

1 about today or talking about are considered  
2 accidents. Tragic accidents, no doubt when  
3 fatalities are involved. However, homicides  
4 are not an accident. They are deliberate and  
5 often premeditated. Homicide is still the  
6 third largest cause of on-the-job deaths. Its  
7 hand is now reaching into our schoolyards and  
8 our churches. Many times after a high-profile  
9 workplace shooting you hear on the news people  
10 acknowledging they'd noticed warning signs, but  
11 they ignored them or their upper management  
12 ignored them. Many employers will not take the  
13 initiative unless some sort of training  
14 regulation is implemented and enforced.  
15 I believe that workplace violence prevention  
16 training should be as important for supervisory  
17 personnel as a respirator class is for  
18 fabricators or forklift class is for equipment  
19 operators. Without some sort of research and  
20 presentation, I don't believe a regulation will  
21 be enacted. Employers will still choose to  
22 ignore the risks and these horrible kinds of  
23 fatalities will continue.  
24 So again, I would ask that NIOSH consider  
25 applying some research funds and some efforts

1           into coming up with ways for the employers to  
2           reduce this risk in the workplace. Thank you.

3           **DR. MCCLUSKEY:** Mr. Brown?

4           **MR. BROWN:** I'd like to go ahead and jump ahead  
5           of the clock a moment or two and be the first  
6           to wish everybody a good afternoon. My stomach  
7           is starting to tell me it's about that time.  
8           My name is Keith Brown and I work with the OSHA  
9           21(d) Consultation Program operated out of the  
10          College of Public Health here at the University  
11          of South Florida.

12          I am not a medical professional. I've never  
13          had any type of medical training outside of a  
14          very basic first aid course, usually at the  
15          spur of the moment to remedy a minor cut.  
16          However, in working with employers throughout  
17          the state and exchanging conversations with my  
18          colleagues, not only in the state, but also in  
19          other parts of the nation as well, we've  
20          identified what seems to be a disparity in the  
21          level of medical treatment provided for  
22          seemingly minor work-related injuries and  
23          similar type injuries sustained in an other  
24          than work-related environment.

25          This disparity places a burden on employers who



1           participate and are required to maintain the  
2           Occupational Safety Health Administration's log  
3           of work-related injuries and illnesses. This  
4           disparity contributes a major burden on these  
5           employers, as well as OSHA to a degree in the  
6           fact that annually OSHA collects data and  
7           targets certain employers for enforcement  
8           inspections based on the data that they are  
9           reporting to OSHA. This disparity creates an  
10          undue burden on these employers and the federal  
11          government by targeting employers that perhaps  
12          should not be targeted for these enforcement  
13          inspections. This is an issue which frustrates  
14          employers and in some cases employees alike.  
15          No one wants to be second-guessing the medical  
16          professional in the type or level of treatment  
17          that they provide a minor injury, but at times  
18          it becomes somewhat curious as to why a cut  
19          that we might receive at home would only  
20          require a bandage, but a cut that we receive at  
21          work might require a couple of stitches as  
22          opposed to a butterfly bandage and  
23          subsequently, prescription-grade medications  
24          from antibiotics to painkillers. These are  
25          things which toss the employer into that

1 position of having to report these issues to  
2 OSHA.

3 Unfortunately, I do not have any suggestions  
4 for resolving this type of an issue, but I  
5 sincerely hope and request that NIOSH and the  
6 medical industry work together to  
7 satisfactorily resolve this and remove this  
8 burden from the employers and employees alike.  
9 Thank you.

10 **DR. MCCLUSKEY:** Thank you, Mr. Brown. I  
11 appreciate your comments. Dr. Rentos, I  
12 believe you had some comments as well.

13 **DR. RENTOS:** Thank you, Dr. McCluskey. I do  
14 want to thank you for being here this morning.  
15 My story really cannot be told unless you're  
16 out there in the field and you see it. I want  
17 to congratulate our department and the College  
18 of Nursing and our program in occupational  
19 health nursing, which has had the wisdom to  
20 suggest that in this coming semester all of our  
21 graduate students will go to the field.  
22 The story I want to tell you about is a product  
23 called delimiting. Now, delimiting is a very  
24 fragrant and very pleasant odor that is found  
25 in the citrus manufacturing industry. In fact,

1           it is manufactured in tons. The interesting  
2           thing about it, even though it does represent  
3           an inhalation problem, there is no OSHA PEL.  
4           There is no NIOSH REL. There is no ACGIHTLV.  
5           That is very interesting, isn't it? Especially  
6           in view of the fact that animal studies have  
7           shown that it can be a potential carcinogen.  
8           In fact, in one study that was specie-specific  
9           for rats, that's exactly what has happened.  
10          So my story is simply that if there is great  
11          potential for exposure to delimiting in the  
12          workplace in citrus production then why don't  
13          we have the information to support and to  
14          document a safe exposure level? So therefore I  
15          would ask NIOSH to consider this and do  
16          whatever it can to provide such a level. Thank  
17          you very much.

18          **DR. MCCLUSKEY:** Thank you, Dr. Rentos. We  
19          appreciate your comments. We did save the best  
20          for last and you finally get to comment and  
21          then we'll certainly open up the mic to other  
22          interested persons, but Mr. Wood from the  
23          Florida Division of Workers' Compensation.

24          **MR. WOOD:** Good afternoon. My name is Roy  
25          Wood. I'm with the Division of Workers'

1 Compensation for the State of Florida. We're  
2 part of the Department of Financial Services.  
3 Formerly, we were an entity in and of  
4 ourselves. We're renewing our interest or our  
5 thrust in this area of safety and look forward  
6 to working with USF in that area.

7 Dr. Brooks, I submit to you that another form  
8 of occupational asthma is speaking in public.  
9 That's probably something else to study in that  
10 area. The beauty of being last is I get to  
11 hear everybody else and get to rewrite my  
12 points several different times and find out  
13 that others have the same interest in mind that  
14 we at the Division do.

15 I have three basic topics to briefly discuss  
16 this morning. One is the area of natural  
17 disasters. Around the southeast we are all  
18 very familiar with the hurricanes that have  
19 been taking place over the past five years.  
20 We're concerned about workers returning to a  
21 workplace where the infrastructure is down;  
22 where the employer may have damage to the  
23 workplace. They may be dealing with their  
24 products and services in a much different way.  
25 They may be thrust into a role that is much

1 different that what they're used to. Overall,  
2 the environmental landscape has changed for  
3 these workers and their new work roles in many  
4 instances.

5 From our experience in Florida we believe there  
6 should be research into the ability to promote  
7 a safe workplace in an environment that is  
8 post-disaster; whether it's hurricanes or some  
9 other disaster. Research could be done on the  
10 safety issues concerning structural damage,  
11 enlightening workers towards that area. What  
12 is the impact on medical resources in the area?  
13 What is the impact on the environment that  
14 people need to be made aware of? What can be  
15 done in these areas to prepare people for this  
16 obvious disaster that is to come? The impact  
17 of occupational hazards, the pollution in the  
18 water, the release of sewage, things of that  
19 nature are normal and should be expected, but  
20 to what extent can we prepare and be cognizant  
21 of those issues.

22 Finally, many workers are exposed to driving  
23 hazards that didn't exist before; the loss of  
24 power; the loss of traffic lights and just  
25 street lights of that nature. How to prepare

1 workers for that. Which leads me also to my  
2 next topic, which is the extended driving  
3 periods that workers may have to go through  
4 because infrastructure has been damaged.  
5 My next topic is transportation incidents.  
6 Historically, transportation incidents are the  
7 leading cause of workplace deaths. On average  
8 in Florida it varies from 40 to 47 percent of  
9 all fatalities in Florida are  
10 transportation-related. Ms. Bohan probably  
11 pointed out one of the most important areas  
12 that transportation-related incidents occur and  
13 that is in the work zones. But there are many  
14 other cases and to my knowledge there is no  
15 definitive research that has been done on what  
16 other factors may come into play on other types  
17 of transportation-related accidents. For  
18 instance, are there distractions that we don't  
19 know about or that we do know about that may  
20 help us prevent further accidents?  
21 Just imagine for a moment if you will that if  
22 we were able to reduce transportation-related  
23 accidents just by ten percent. That would be a  
24 significant amount of savings, both emotionally  
25 and financially. Are there safety programs

1           that employers aren't taking advantage of in  
2           the driving arena? What is the impact of  
3           fatigue, cell phone use, drugs and alcohol? If  
4           you look at the BLS data it tells you that  
5           there were that many fatalities, but what needs  
6           to happen is we need to drill down into that  
7           information and find out what is really causing  
8           the accidents that occur.

9           Finally, I want to talk about the aging  
10          workforce. January 1 of this year was the  
11          first year of the baby boomers turning 60. It  
12          became a very hot topic in everybody's mind and  
13          in all the press. When I went out and started  
14          looking for data and information in this area,  
15          I found very little. There was a lot of  
16          anecdotal information, but not a lot of  
17          concrete information that exists concerning the  
18          aging baby boomers; me being one of them. I  
19          did find a study by the American Society of  
20          Safety Engineers that suggested ergonomic  
21          changes that need to be made or considered.

22          All of these things seem very obvious, but I  
23          think that it is probably time to begin  
24          considering what changes need to be made in the  
25          workplace that can accommodate this large mass

1 of workers that we have a fundamental shift  
2 from a younger age to an older age. One  
3 research topic I would think would be the study  
4 of how to adjust the safety standards  
5 recognizing the limitations that may exist  
6 because of that shift. Thank you very much and  
7 I appreciate being here.

8 **DR. MCCLUSKEY:** Thank you so much for your  
9 comments as well as the other individuals. I'd  
10 like to open up the mic because we do have a  
11 few moments. If people have comments upon  
12 things that people have presented or were not  
13 on the schedule and would like to present their  
14 own topics. I certainly appreciate all of you  
15 and these topics were very interesting and I'd  
16 like to give a round of applause to everyone  
17 who had the gumption to actually get up and  
18 speak and say things. I would encourage  
19 everyone else to. I believe that if I don't  
20 see anyone running towards the back mics then  
21 there are closing comments by both Dr. Stuart  
22 Brooks and Dr. Soderholm prior to going to  
23 lunch.

24 My final comment will be please come back for  
25 the afternoon. We would love to see you once



1           again as well as lunch can be had in the dining  
2           room right below this room. Thank you so much  
3           for coming and Dr. Brooks if you'd like to make  
4           a closing comment for this morning session.

5           **DR. BROOKS:** I'm really impressed with the  
6           speakers today and the information that was  
7           provided. I hope that it provides NIOSH with a  
8           direction. I think that one theme is this  
9           theme that is important to Florida about  
10          natural disasters. The hurricanes that are  
11          causing property damage result in this whole  
12          area of residential construction and  
13          residential safety that we've discussed in  
14          numerous ways. From fall protection for  
15          roofers and various types of injuries and  
16          accidents that result from the cleanup of these  
17          storms. The residential safety, I think, is an  
18          important area.

19          I think the second thing that we've discussed  
20          here that's important is the aging workforce.  
21          How it affects not only acute injuries, but how  
22          it might affect ergonomic issues, and maybe we  
23          really need to look at what is a worker in the  
24          21st century.

25          We talked a little bit about some new things

1           that really are important and that is  
2           aggression and workplace violence. I think  
3           that's another area that can be something that  
4           NIOSH is involved in.

5           Then there is the whole issue of dealing with  
6           health issues, from asthma and asthma in the  
7           workplace to silica and the role of silica in  
8           masonry. We talked about pesticides in migrant  
9           workers and pesticides in agricultural workers.  
10          This State is an agricultural State, so that's  
11          an important issue. There are specific types  
12          of exposures. We talked about isocyanates and  
13          the spraying operation. There are a whole host  
14          of others.

15          Then it's important that we have some way of  
16          measuring issues, whether it be aggression, but  
17          also measuring illnesses. So having a good  
18          surveillance system in the state and performing  
19          epidemiological investigations and trying to  
20          identify what's really going on will allow us  
21          to provide some better intervention programs.  
22          Again, finally, I still have an issue that  
23          deals with this approach for the sector-based  
24          approach that hopefully it doesn't get taken  
25          too much in a consensus agreement and we don't

1 really deal with some of the important issues  
2 in occupational safety and health.

3 **DR. SODERHOLM:** I appreciate everyone's  
4 comments. I'm sitting here to be one of the  
5 faces of NIOSH and there are many more people  
6 in NIOSH in the audience. They remind us that  
7 NIOSH is only one of the faces here at the  
8 table. There are many partners who will be  
9 involved in this work.

10 I appreciate everyone's input. We've heard  
11 some wonderful stories that really remind us  
12 that for those of us who aren't visiting  
13 worksites every day that it is the people that  
14 we are working for and are trying to learn  
15 better how to protect.

16 I would like to ask everyone who felt it was  
17 important enough to come here today to not make  
18 that a one-time act. Contact me or contact  
19 others you may know in NIOSH, but raise your  
20 hand and get involved. There is a lot more  
21 work to be done and we would like your  
22 participation. We'd like you to volunteer and  
23 don't hesitate to take that next step. If  
24 nothing else, sign up for eNews so you can  
25 follow what's happening in NORA and follow

1           what's going on in occupational safety and  
2           health as NIOSH is leading its part of those  
3           efforts.

4           So if there are no other housekeeping details,  
5           I invite everybody back for the afternoon  
6           session, which will focus on wholesale and  
7           retail trade. Certainly, if there are other  
8           issues that come up, I hope we'll have time at  
9           the end or sometime during that to invite  
10          others to come and talk about any issue. Thank  
11          you. Drive safely and work safely. Thank you.  
12          (Whereupon, a recess was taken from 12:15 p.m.  
13          until 1:15 p.m.)

14          **INTRODUCTION TO THE SECTOR APPROACH**

15          **PAUL SCHULTE, NIOSH**

16                 **DR. SCHULTE:** Good afternoon everybody and  
17                 welcome back to the afternoon session to talk  
18                 about developing a national occupational  
19                 research agenda for the wholesale and retail  
20                 trade sector. We appreciate you being here.  
21                 We hope that this represents an opportunity for  
22                 government really to listen to stakeholders and  
23                 interested parties in giving us guidance about  
24                 what research is important and what we should  
25                 do.

1           So if you were here this morning you heard that  
2           ten years ago NIOSH started a strategic  
3           approach to develop an occupational research  
4           agenda. We did that by listening to customers,  
5           stakeholders, and interested parties. We did  
6           that for ten years and it seemed to be quite  
7           useful and successful. It allowed us to  
8           leverage resources in a time of scarce  
9           resources and focus on important things.  
10          Well, for the second ten years we hope to  
11          modify that a little bit by utilizing an  
12          approach that focuses on industrial sectors.  
13          So that we can identify the most important  
14          problems in each of the sectors and that we can  
15          have a separate research strategy for each  
16          sector. Many of our partners said your  
17          strategies are too general. We need you to  
18          focus in on our particular sector. Other  
19          partners also said that we know a lot about  
20          what causes occupational injuries and  
21          illnesses, but we haven't applied that  
22          information. So part of the effort of the  
23          second ten years of NORA is to look at how we  
24          make knowledge turn into action. How we apply  
25          knowledge. How we go from research to

1 practice. So that's the focus.  
2 We didn't miss the concept that was espoused  
3 this morning that there's still a need for  
4 basic critical research, and we're going to  
5 address that in a number of ways. One is that  
6 we're going to have an overarching council made  
7 up of representatives of all the councils.  
8 Secondly, we are keeping the programmatic  
9 priority areas from the first NORA, and we'll  
10 still be investing in them to some extent. We  
11 hear the message that there's a need for basic  
12 research, but we hear an even louder message  
13 that there's a need for research on how to  
14 figure what works and how to make it work  
15 better. So that's where we're aiming today.  
16 To help us do this, we're doing a number of  
17 things.  
18 One is that we're soliciting your opinion and  
19 your input. You can do it today. You can do  
20 it on our website. You can send us letters.  
21 You can come to our office. Anyway you want  
22 you can give us your input.  
23 Secondly, for each of the sectors we hope to  
24 have a governance council that will say we are  
25 a group that's going to develop a research

1 agenda for the nation for a given sector. That  
2 will be owned by the nation, not just by NIOSH.  
3 NIOSH will then identify that piece of the  
4 agenda that we can do best, but we hope that  
5 other people will claim and lead in other  
6 parts. Together, we will impact a given  
7 sector. So we will do this by forming this  
8 kind of sector research council drawing on a  
9 broad variety of stakeholders.

10 The idea in each of these will be to analyze  
11 the most important needs, gaps, and barriers in  
12 the information base to make a difference in a  
13 sector. Then we will set a strategic plan and  
14 do some strategic thinking to figure out how we  
15 can eliminate the worse problems in a sector,  
16 and to do that in a way that we can measure our  
17 progress by having various kinds of  
18 intermediate and performance goals. Then try  
19 to bring together a series of partnerships that  
20 will allow us to leverage funds and to have a  
21 synergistic effect in a given sector.

22 So this afternoon this is the time that we're  
23 focusing on a particular sector, the wholesale  
24 and retail sector. I want to just brief some  
25 of you who aren't familiar with it -- many of

1           you are since you represent that sector -- of  
2           what it encompasses and some of the major  
3           problems in that sector.

4           One out of every five workers, essentially,  
5           works in the wholesale and retail sector. It's  
6           one of the eight industrial groupings that  
7           NIOSH is using. We're choosing these groupings  
8           using an industry classification known as the  
9           North American Industrial Classification System  
10          or NAICS. NAICS codes the economy in two  
11          digit, three digit, four digit, five digit, and  
12          six digit categories. So wholesale is code 42.  
13          Retail is codes 44 and 45.

14          Then you can down into -- as you add more  
15          digits you drill down further into the sector.  
16          So for the wholesale trade sector it's  
17          estimated using 2003 data that there are 5.6  
18          million workers. In the retail trade it's  
19          estimated that there's close to 15 million  
20          workers. You can see that you start to get a  
21          lot of variation within this sector. So a pet  
22          store will be different than a floral shop in  
23          terms of occupational hazards and issues. So  
24          it's that variation and those differences that  
25          we're really interested in capturing as we go



1           about developing a research strategy.

2           Using 2004 data you can see that the wholesale

3           and retail trade sectors comprised about 21

4           percent of all industry injuries. This is

5           about what that sector represents in terms of

6           the population of workers. So it's

7           proportionally appropriate, and in fact many

8           people in the sector don't believe that there

9           are many hazards, but indeed, when you get into

10          certain of the sub-sectors down to the four,

11          five, and six digit sub-sectors NAICS codes you

12          start to see alarmingly high rates for various

13          injuries and illnesses.

14          So here's the overall for retail and wholesale.

15          They're not far from the total, which is the

16          industry average. What's mostly responsible in

17          this sector are health problems and injuries

18          related to transportation incidents, assaults,

19          and violent acts, and then third are contact

20          with objects and falls.

21          Then you can see, as I was saying, that while

22          the overall rates in orange aren't much

23          different than the national average. There are

24          certain sub-sectors that have large variations

25          and indeed are where many of the hazards

1           happen.

2           So there's two approaches we want to take. One  
3           is we want to identify the high-risk  
4           sub-sectors, but secondly, we realize that  
5           these two sectors, even though the rates are  
6           not high, have the largest amount of injuries  
7           and illnesses numerically. Hence, they have  
8           many of the costs that the society bears for  
9           occupational disease and injury. So we need  
10          strategies both to target the high-risk subset  
11          and the overall sector. Using direct and  
12          indirect cost, it's been estimated that  
13          occupational disease and injury cost the  
14          society 170 to 255 billion dollars a year. So  
15          we're talking real money and we have not only  
16          the human cost of the burden, we also have the  
17          indirect cost and the economic cost.  
18          These are the kinds of things that we want to  
19          be able to research and we're interested in  
20          your opinions on what's important in this  
21          sector. So without further adieu, we'll bring  
22          up the first panel and hear what they have to  
23          say. We'll follow more or less the same  
24          pattern that we used this morning. We'll have  
25          three or four people come up as a panel.

1           They'll each speak for about five minutes.  
2           Then we'll open the floor for discussion or  
3           comments of anyone. One modification, instead  
4           of asking the person to go into the back of the  
5           room we're going to ask speakers if they want  
6           to come up here and speak so they can be seen.  
7           If you want to speak throughout various  
8           openings in the afternoon, you're quite  
9           welcome. We're here to get your input and so  
10          that's what we want. The list has jumped  
11          around about 20 times, so excuse me if I don't  
12          get everyone. The first panel is John Byrnes,  
13          Charlene Grafton, Gary Greenberg, and Rene'  
14          Salazar. If you would all please come up.  
15          While they're coming up, I'll just say that we  
16          really appreciate the time that people took out  
17          of their busy schedules to come and give NIOSH  
18          this kind of input. We hope to listen to it,  
19          to use it, and we look forward to further  
20          participation by you on some of these councils.  
21          Mr. Byrnes?

22          **MR. BYRNES:** Thank you. Once again, I'd like  
23          to point out that my comments are going to be  
24          directed to the retail and wholesale sector.  
25          I've got a one-page written narrative that's on

1 the back table, if you'd like it.

2 Those in the retail and wholesale business

3 often wonder why they miss the workplace

4 predator all too late or until it's too late.

5 We're talking about the individual who comes

6 into the retail setting or the wholesale

7 setting and shoots and kills people because

8 they're either robbing from them or because

9 they have some dispute with them.

10 This morning you heard me mention that how we

11 had 13 years ago developed the means to measure

12 human aggression. What was particularly

13 interesting about this discovery was we

14 realized that aggression wasn't just

15 aggression, but that aggression was primal

16 aggression and cognitive aggression.

17 Primal aggression is built off of the primal

18 instincts of fight or flight. It is fueled by

19 adrenaline. That is the connection between

20 aggression, the production of adrenaline, the

21 increase in the heart rate, and the resulting

22 bodily language and behavior that we can

23 identify and measure. This is what most people

24 think is aggression.

25 However, what about conscience, deliberate

1 aggression? Here, we've developed what we call  
2 cognitive aggression. This is built off of  
3 intent; malicious and hostile intent. In other  
4 words, what is your intent with this person?  
5 Is it in your interest and theirs, therefore a  
6 win/win as it ought to be or is it in your  
7 interest and their detriment? In other words,  
8 you're going to victimize this person. You're  
9 becoming a victimizer or at a slightly higher  
10 level of cognitive aggression, the predator.  
11 The person who doesn't care who they're going  
12 to get, they just know they're going to get  
13 someone like in a robbery and often with  
14 criminal intent.

15 The highest level of cognitive aggression is  
16 the terrorist; someone who wishes to invoke  
17 terror into the hearts and minds of their  
18 victim. Now, we often think of a terrorist in  
19 Iraq, but the individual who comes into your  
20 workplace with the intent of killing people and  
21 who has no regard for their own lives meets the  
22 same body language and behavior that we use to  
23 identify the terrorist. The same body language  
24 and behavior are utilized.

25 To this end, an example is the best way to

1 illustrate this. We were invited to the FBI  
2 and we met with the directors of behavior  
3 sciences for both the FBI and the TSA in  
4 Quantico. The Director of the FBI said that  
5 out of every 200 people that request a  
6 presentation in front of us we permit one.  
7 That says volumes about our interest in your  
8 subject matter. At the end they gave us a  
9 publication of all the devices and apparatuses  
10 that were being developed or had been developed  
11 to identify a terrorist in an airport. After  
12 reading it I explained to them that the problem  
13 you have is you're identifying a primal  
14 aggressor. You're identifying stress, anxiety,  
15 orbital flushing. In other words, you're  
16 reading emotions, which is what we all do when  
17 we try to find this kind of an aggressor.  
18 However, a terrorist is a cognitive aggressor.  
19 This is a person who not only disconnects from  
20 their victim, but this person disconnects from  
21 their own wellbeing to the point where they  
22 find a profound calm. Why a profound calm?  
23 Because they are completely and totally  
24 disconnected from their own wellbeing. Ladies  
25 and gentlemen, this is a completely different

1 behavior than the primal aggressor. If you're  
2 looking for the primal aggressor then you're  
3 going to miss the individual who comes into the  
4 workplace. If you look at the last four  
5 shootings, these are people who came in and  
6 expressed their conflict by shooting and  
7 killing people. If you're not looking for the  
8 cognitive aggressor, you will miss this person  
9 all together.

10 If we are to identify any effective means of  
11 preventing the workplace shooter, whether the  
12 intent is to rob from you or to satisfy some  
13 kind of a dispute with you, we've got to  
14 understand cognitive aggression. How to  
15 measure it, how to engage, and how to prevent  
16 it. We've been measuring this over the last 13  
17 years anecdotally. We have a strong interest  
18 in an ability to find a grant research partner  
19 that we can measure this empirically so that  
20 this can be the basis of preventing workplace  
21 shootings. Thank you very much.

22 **DR. SCHULTE:** The next speaker will be Charlene  
23 Grafton.

24 **MS. GRAFTON:** Good afternoon. I'm from  
25 northwest Florida and I'm Charlene Grafton.

1 I've been a nurse for over 50 years. Since  
2 moving back to northwest Florida, I began to  
3 write about some of my experiences with  
4 computer-related injuries. That's what my  
5 presentation is today, computer-related  
6 injuries.

7 The major cause in my belief is the  
8 right-hand side of the workstation is an  
9 overloaded system. We're all righties (\*). I  
10 first became aware of computer-related injuries  
11 while managing workers' comp claims while  
12 living in Nevada. I was managing workers' comp  
13 office claims for workers in California,  
14 Nevada, and Utah. Then when I moved to Atlanta  
15 I managed claims in Florida, Georgia, and  
16 Alabama. What I found by managing a large  
17 number of workers' comp claims of bank workers  
18 -- I managed all the claims for one national  
19 company for all of their banks in Georgia, and  
20 for another company all of their banks in  
21 Alabama. So I have a pretty good idea of what  
22 type of injuries that happen because of not  
23 only the computer keyboard, but also the keypad  
24 and the mouse.

25 With that in mind, I wrote and have a patent



1           that is in a pending process, which is a  
2           training method to develop the left hand. By  
3           developing ambidexterity, we can prevent a lot  
4           of computer-related injuries. In the  
5           performance highlights of the NIOSH research  
6           findings -- it's in this book and if you don't  
7           have it and you work with people with hands,  
8           you really need to get this book. From this  
9           book of relevance to 40,000 employees of the  
10          IRS and millions of workers in similar work  
11          operations, they determined the use of a  
12          regimen of hourly brief rest breaks would  
13          reduce musculoskeletal disorders without loss  
14          of productivity. The study was done ten years  
15          ago, according to Dr. Naomi Swanson, who I did  
16          speak with and I am requesting follow-up  
17          studies with these same types of workers; as  
18          many changes have been made in keyboards,  
19          keypads, and peripherals by business and  
20          industry.

21          Directionality of the keypad with the left side  
22          of the numbers -- this is what is very  
23          interesting. When you change to the left-hand  
24          side of a keypad -- and you can buy them, but  
25          no one can tell why to buy one or the other.

1           That's why I wrote the patent. Directionality  
2           between the hands is the issue. So there are  
3           certain small tests that you can do that really  
4           don't cost any money to be able to determine  
5           this.

6           Most of the research that's been done about  
7           work with the hands, though, is with CAT scans  
8           and MRIs and you just don't have that in the  
9           workplace. Products have been made and sold,  
10          but no explanation of what to buy. The  
11          computer keyboard with modem bought in a box is  
12          generic. So my method is based on the human  
13          factor of dominance. We all have our  
14          dominance, but what do you do with it to your  
15          advantage?

16          In 2003, it was estimated that 73 million  
17          computer users of which 80 percent were  
18          actively providing data entry services at work  
19          using the numerical keypads. With competitive  
20          motion injuries topping the charts in workers'  
21          comp claims it's reasonable to assume that NORA  
22          would be interested in new answers for  
23          computer-related injuries. I know that only  
24          employers can change occupational environments  
25          to decrease its incidence, but scientific

1 investigations should be provided by NORA in  
2 the coming years.

3 Outsourcing of computer jobs to other countries  
4 makes this even more important for the United  
5 States because we primarily developed Silicon  
6 Valley and now so many of those jobs have gone  
7 overseas that so much of the computer business  
8 is not just our problem anymore. What I'm  
9 requesting NORA to do is to conduct research on  
10 the same types of workers, train for  
11 ambidexterity, develop work-hardening programs  
12 in our occupational centers, and also training  
13 programs to eliminate computer-related  
14 injuries. Thank you.

15 **DR. SCHULTE:** Thank you. Our next speaker will  
16 be Dr. Greenberg.

17 **DR. GREENBERG:** I appreciate the opportunity to  
18 speak to y'all today. I'm Gary Greenberg. I'm  
19 an occupational medicine doctor at the  
20 University of North Carolina, as well as at  
21 Duke University -- and yes, you can do that.  
22 I'm pleased to be able to come to Tampa and  
23 discuss how we might be able to modify or  
24 redirect some of NORA's future with this  
25 opportunity for a town meeting. I'm lucky that

1 I flew in from the north and it wasn't that far  
2 north and my flight was not cancelled. This is  
3 a town that I know well. I actually practiced  
4 medicine down the street at University  
5 Community Hospital and had a faculty  
6 appointment at the school in the first months  
7 of its existence as a school of public health.  
8 My point today is to try to gather some support  
9 from the audience and from NORA's planners to  
10 make sure that we include recognition of one of  
11 the more consequential and sometimes overlooked  
12 aspects of occupational health, which is  
13 disaster planning.

14 Disasters are a sadly recurring situation of  
15 massive public health consequence, and  
16 occupational health needs a seat at the table  
17 and a voice in the room when those issues are  
18 being discussed.

19 Disaster planning has been a problem within  
20 occupational medicine for decades; especially  
21 because many disasters originate with our own  
22 worksite. Where there is chemical, nuclear, or  
23 infectious hazards which are either stored or  
24 even produced we recognize that managing those  
25 situations are part of occupational health.

1           Recently, disasters have occurred because the  
2           workplace is the target of the disaster.  
3           That's a different situation than that in which  
4           we were trained in the past. Terrorism has  
5           focused its assault in many occasions at  
6           specific workplaces. We should right now think  
7           about some of the past contemporary situations  
8           where disaster was appropriately used.  
9           SARS is often used as a prototype. SARS was an  
10          occupational health crisis. We probably  
11          couldn't call it a disaster because so few  
12          cases occurred, but nonetheless this was  
13          clearly an occupational health event where  
14          workforces of healthcare workers were the most  
15          primary target of the disease and the greatest  
16          sufferers in the countries where that was  
17          manifest.  
18          9-11, clearly the first domestic episode of  
19          major terrorism needs to be recognized that the  
20          target was a workplace. 9-11, Oklahoma City  
21          were both situations which were targeted  
22          because of their metaphorical importance, but  
23          the victims of that situation were people in  
24          their job. They had no reason to anticipate  
25          that their job was one where major consequences

1           occurred.

2           Similarly, anthrax was a targeted terrorist  
3           event focused at workers, media, congress, and  
4           accidentally it was postal workers who suffered  
5           the greatest health consequences. Clearly,  
6           this is a situation of occupational  
7           consequence. We looked at the converse of this  
8           and we can talk about Katrina. Katrina was a  
9           situation where the consequences were generic.  
10          A civilization almost comprehensively was  
11          demolished. The shining light of the recovery  
12          and the response happened to be the worksite.  
13          The oil industry as the victim and retail as  
14          perhaps a rescue agent need to be recognized as  
15          a very consequential situation where disaster  
16          management was well-handled.

17          I was at a meeting last week where Wal-mart's  
18          director of crisis management described their  
19          war room of monitoring tools, full-time  
20          employees, disaster plans for every possible  
21          crisis from shootings to fires to earthquakes.  
22          And in this case it was a hurricane where they  
23          could plot the plans and bring their resources  
24          to bear in the perimeter, ready to work on the  
25          population as soon as it occurred. They had

1           scramble plans and reassemble plans for their  
2 workers. It was quite impressive and better  
3 than anything our government was able to  
4 achieve.

5           If we stop thinking about the past disasters  
6 and think about what's the most likely  
7 threatening and impacting disaster of the  
8 future we really need to think about pandemic  
9 flu and how that affects workforce, in addition  
10 to the population as a whole. We have to  
11 recognize that the workforce is an opportunity  
12 to respond to pandemics. It's an organizing  
13 focus of society. We have to recognize that  
14 the workforce has to respond to the situation  
15 with plans of social distancing, institutional  
16 surge capacity, new arrangements for remote  
17 work, shifted assignments, and alternative work  
18 programs.

19           The main point of my remarks is to recognize  
20 that disaster management within occupational  
21 medicine is public health. The core discipline  
22 of what we all trained in. It's about planning  
23 for community-based response. It happens that  
24 the community is workers. It recognizes that  
25 we are a network of providers. We are a

1 network of providers that mirrors and parallels  
2 what's going on in the other network of public  
3 health, the more classically considered county,  
4 state, and federal networks. We need to  
5 stimulate, initiate, and evaluate our response  
6 to disaster situations. There is a growing  
7 network now called the Occupational Health  
8 Disaster Expert Network. There is a handout in  
9 the back of the room and I have a few in my own  
10 hand. We're trying to stimulate a resource  
11 that will allow professionals in occupational  
12 settings to share plans and ideas with each  
13 other, recognizing that disaster response is a  
14 non-proprietary and non-competitive aspect of  
15 occupational health. I appreciate your  
16 listening and I'll be around for questions  
17 later.

18 **DR. SCHULTE:** Thank you very much. The last  
19 speaker in this panel is Mr. Salazar.

20 **MR. SALAZAR:** Good afternoon. My name is Rene'  
21 Salazar and I want to thank NIOSH for allowing  
22 me the opportunity to be here. I'm with a  
23 small firm in Tampa, Florida called Salazar  
24 Consulting Group. We are a small group of  
25 certified industrial hygienists. All of us



1           trained with either master's or Ph.D. training.  
2           We do most of our work here in Florida. We  
3           provide consulting services in the field of  
4           environmental and occupational health.  
5           Although we're trained and certified the  
6           comprehensive practice of industrial hygiene,  
7           it appears that our practice causes us to be  
8           most involved in the issues of indoor  
9           environmental quality, particularly in  
10          non-industrial environments. Most of our  
11          clients that call into the office usually have  
12          that kind of work or service that they need.  
13          The client base is quite varied. We deal with  
14          building owners, building managers, lawyers,  
15          physicians; a variety of folks. They all have  
16          essentially the same interest. That is they're  
17          all connected by this issue of the workplace  
18          and so protecting the workers is a priority.  
19          For the more traditional exposure  
20          characterization methods such as for noise or  
21          asbestos or for a variety of chemical agents,  
22          NIOSH provides us, the practicing industrial  
23          hygienist, with methods to do those  
24          assessments. We can go to the bookshelf and  
25          find NIOSH methodologies for the investigation

1 of these kinds of issues and also sampling  
2 methodologies that might be available. Even  
3 for general IQ issues, which are really a  
4 subset of traditional industrial hygiene, NIOSH  
5 offers us some guidance. There is some  
6 information available for us to go out and get  
7 NIOSH documents to determine how to perform an  
8 investigation.

9 However, these days the unfortunate factor is  
10 that most of the general IQ requests that come  
11 through are no longer general in nature. They  
12 focus specifically on one agent and that is  
13 mold, and sometimes bacterial agents. With  
14 this, of course, you would imagine that it  
15 would present a problem. We don't have  
16 standardized methods of doing investigations  
17 for these mold elements. We don't have  
18 standardized methods of data collection, of  
19 data analysis, and of data interpretation. It  
20 makes our job quite a bit harder.

21 We find ourselves as formerly trained and  
22 knowledgeable individuals as others doing these  
23 kinds of exposure assessments having to argue  
24 issues with those who are less qualified, not  
25 properly trained, who basically have gained an

1           understanding of some buzz words and phrases,  
2           which are thrown out there to the workplace or  
3           to the workers and to the general community at  
4           large. So we find ourselves having to debate  
5           these issues, which I would believe with good  
6           research and good opportunities to do  
7           assessment methods would not have to be  
8           discussed. This wastes time and money and also  
9           drags the individuals through this entire  
10          process. The workers usually have some  
11          validation of their complaints, sometimes there  
12          are legitimate complaints, many times there are  
13          not. They are just perceived hazards.  
14          What we need from NIOSH and what we need from  
15          this NORA process is to aggressively research  
16          this issue of indoor environmental quality in  
17          non-industrial indoor environments. We as  
18          practicing hygienist or as practicing  
19          environmental professionals need to be able to  
20          assess standardized investigative methods,  
21          standardized methods of data collection,  
22          analysis, and interpretation. Ultimately, we  
23          would hope that we would have some sort of  
24          response data that can be generated so that we  
25          can see the development of threshold values

1 developed at some point in the future. Thank  
2 you very much.

3 **DR. SCHULTE:** Thank you. Is there anyone who  
4 would like to add anything to that or who  
5 hadn't planned on making a statement? Thank  
6 you. I'll call the next panel. Next, could  
7 Brian Hennessy, Isbelia Lugo, Robert Prior, and  
8 Robert Nesbit please come up? Was anybody on  
9 the list or if I missed anyone, please do not  
10 hesitate to speak up. Robert Prior?

11 **MR. PRIOR:** Thank you. I'd to thank NIOSH for  
12 giving us the opportunity to let the community  
13 come together and to Stuart Brooks and USF for  
14 sponsoring it here at the University. Well, a  
15 little bit about me. I'm also with Aon, as  
16 Dr. Byrnes is. You're going say what is an  
17 Aon? Well, we're a large insurance brokerage  
18 world-wide and a large reinsurance company.  
19 That's what we are. It says that I'm with the  
20 Sunshine ERC, which I am as a member here with  
21 the community. Today, I just want to talk a  
22 little bit and I'm going to tell you a little  
23 story about one of the companies that we  
24 represent to get their insurance for and the  
25 problems that they have today competing in the

1 global environment with the worker comp cost.  
2 Before that, I've been with Aon for about five  
3 years and before that I was in the  
4 manufacturing, telecommunication, and  
5 public-service sector. I was actually a  
6 paramedic when I started. So that's how I  
7 started. I represent a number of clients in  
8 the retail and wholesale trade sector. They're  
9 always concerned about employee safety and  
10 health, and of course, what comes with that is  
11 the cost of worker compensation.  
12 One company in particular has had a lot of  
13 rapid growth, as a lot of the ones in this  
14 trade sector have. With that, the additional  
15 worker comp claims come, sometimes yes,  
16 sometimes no. So they call somebody like me  
17 from the insurance broker to come help them.  
18 So we do an analysis of their accidents, find  
19 out what body part, what type of accidents, and  
20 those kind of things. We try to come up with a  
21 game plan to come up with some job fixes, let's  
22 call it; either engineering or administrative  
23 controls. Of course, we follow NIOSH lifting  
24 guidelines, we go to the OSHA website, and we  
25 look at everything that's out there that we can

1 use. We come up with a game plan. So we have  
2 these interventions, which may include controls  
3 that y'all have heard about; material handling  
4 equipment, raising and lowering work surfaces.  
5 I was involved with a big project with VDTs way  
6 back when and we were trying to tell a company  
7 that they needed 77 million dollars worth of  
8 equipment to raise and lower workstations for  
9 operator services for the telecommunication  
10 industry. That wasn't going to fly. We  
11 switched it to you picked out your own chair  
12 and you were happy, and that was the end of the  
13 game. All we did was buy chairs, but somebody  
14 else was trying to tell us that we had to do  
15 all this lifting and stuff, as you've seen.  
16 Modifying tools, some of that is pretty easy.  
17 Reducing weights, physical-demands testing,  
18 which unions get excited about. You get a  
19 post-offer, we send you to get a physical test  
20 and we find out your shoulders, and your knees,  
21 and your back can't do this particular job and  
22 we can't hire you.  
23 Then we implement all of these things and time  
24 goes by -- let's say a couple of years -- and  
25 they go Bob, this isn't quite working like we

1 thought. Our costs aren't going down. Our  
2 musculoskeletal disorders aren't going down.  
3 What's the story? Well, I can always say well,  
4 you need to give it a little bit more time.  
5 It's not like that. For these companies, costs  
6 increase with this. We all know what's going  
7 on with manufacturing, it's not here very much  
8 and those kinds of things.  
9 I've been following available research, as you  
10 heard from -- just before I came, I read the  
11 NORA MSD Team Agenda to find out what they were  
12 thinking about. At Aon, I also have an  
13 associate that works with me, Dr. Richard Roy,  
14 who's on the NAICS Committee. I've read where  
15 all the gaps are in the research from both  
16 those groups and came up with one that I think  
17 is going to work good for the trade sectors.  
18 Similar to their findings, I have two  
19 interrelated issues that need additional  
20 research. One is the impact of these  
21 multi-factorial causes of MSDs, including  
22 psycho-social, which is really important.  
23 There's a lot of loose data out there. A lot  
24 of people are pointing fingers at things and  
25 nothing definitive. We have physical

1 occupational and non-occupational factors and  
2 their interactions. With this, how these  
3 factors factor into the worker comp systems in  
4 all states. In fact, some states are different  
5 than others. I get this injury and am working  
6 in Alabama and they won't pay anything, but I  
7 go to Florida and this will be paid. So we  
8 need the factors in the worker comp system and  
9 the findings of causation, diagnosis, the  
10 duration of the disability, and other outcomes  
11 related to musculoskeletal disorders. Those  
12 things are tied together.

13 Research greatly assists the companies in this  
14 sector with managing their costs and sustaining  
15 growth. Thanks for the opportunity and if I  
16 had more coffee, I could have talked faster.  
17 Thank you.

18 **DR. SCHULTE:** Thank you very much. Mr. Nesbit?

19 **MR. NESBIT:** Thank you for the opportunity to  
20 be here again. My comments are going to follow  
21 what Mr. Prior just said there. Basically,  
22 what I'm going to do is talk to you a little  
23 bit about the need to develop better safety and  
24 training programs for people in the  
25 retail/wholesale industry.



1           It would be helpful if NIOSH could develop some  
2           guidelines as how to best approach the training  
3           needs for workers in this industry. We need to  
4           determine if there's a relationship between the  
5           accidents and the lack of safe work-practice  
6           training for retail and wholesale workers and  
7           the managers. We also need to look at hazards  
8           involved in the tasks retail and wholesale  
9           workers perform in order to determine if their  
10          safety and health training is adequate. There  
11          appears to be a need for developing  
12          task-specific minimum training requirements  
13          that include safe work practices.

14          As this industry has expanded to the use of new  
15          technology and automation over the past two  
16          decades, workplace safety and health programs  
17          and training in those programs seems to have  
18          been left behind or has not kept pace with the  
19          change in technologies. Numerous contract  
20          companies develop safety and health programs,  
21          emergency action plans, and training plans for  
22          the retail business owners. Some of these  
23          programs are canned so as to fit a number of  
24          different types of businesses with a little bit  
25          of modification. The problem is that a lot of

1 business owners don't look at the information  
2 to see if it really fits their situation. When  
3 an accident occurs owners often find situations  
4 that contributed to the accident, but were not  
5 covered in their safety and health training  
6 program. The result is that the retail and  
7 wholesale safety and health programs need to be  
8 evaluated for effectiveness in terms of  
9 reduction of workplace injuries and lowering  
10 workers' comp cost.

11 NORA could use the information gathered doing  
12 intervention research to develop a promising  
13 practices document for the retail and wholesale  
14 trade industry. This document could then be  
15 used by the retail and wholesale industry for  
16 developing custom workplace safety and health  
17 programs, training programs, and emergency  
18 action plans. I recommend that NORA look at  
19 the possibility of developing course materials  
20 that could be used to target specific retail  
21 and wholesale management groups. We have found  
22 in our consultation work and in our classroom  
23 training sessions that there is a specific need  
24 to develop safety and health program management  
25 materials for managers who have little or no

1 safety and health knowledge. There is a real  
2 need for developing training materials that can  
3 be used to explain the importance of good  
4 safety and health programs and demonstrate the  
5 need for effective emergency management plans.  
6 There is a need to determine adequacy of the  
7 emergency procedures and the knowledge of the  
8 managers and employees in implementing  
9 emergency action plans, as well as training  
10 programs. Again, I thank you for the time to  
11 give this presentation. Thank you.

12 **DR. SCHULTE:** Thank you very much. Is there  
13 anyone who would like to add or make a comment  
14 at this time? Okay. Gentlemen, thank you very  
15 much. I believe that we have only one more  
16 panel and that is Cameron Brooks and Michael  
17 Alvarez. Is there anyone else who had intended  
18 to speak that I didn't call? Mr. Brooks,  
19 Mr. Alvarez. I had the right organization, but  
20 the wrong name. Mr. Johnson, please.

21 **MR. JOHNSON:** Good afternoon. My name is Rich  
22 Johnson and I work for Lowe's Companies and  
23 Lowe's Home Improvement. Great thing about  
24 working for an improvement company is we don't  
25 wear ties. Even our CFO and Chairman of the

1 Board doesn't wear a tie to work, so that's  
2 pretty nice. A jacket is really dressed up for  
3 a hammer guy. I'm the director of safety for  
4 Lowe's. We're a Fortune 50 company. We have  
5 1275 stores and building 150 more a year for  
6 the next five years. Our sales are going to  
7 exceed 42 billion in '05. We actually serve  
8 about a million customers a week. Our home is  
9 in Mooresville, North Carolina. That's where I  
10 came from today. We started as a little tiny  
11 hardware store 60 years ago in North Wilkesboro  
12 and it's grown to what it is today. We pride  
13 ourselves on actually developing our stores in  
14 a way that it attracts a customer that feels  
15 safe in our store. We have 175,000 employees  
16 that work at Lowe's. Of course, that number is  
17 growing at a pace of about 16 percent a year.  
18 So I'm not here to talk about a canned topic,  
19 I'm here to basically represent one of the  
20 biggest retailers in the United States and what  
21 our issues are.

22 The biggest thing for us is that we move about  
23 70 percent of our products that you buy at  
24 Lowe's through our distribution network supply  
25 chain. That supply chain piece adds even more

1 injury rates than the store does because  
2 everybody is driving forklifts and everybody is  
3 on power equipment when all the products get  
4 shipped. So you think about a 42 billion  
5 dollar company and 70 percent of our products  
6 coming through 11 distribution centers  
7 throughout the United States. It's quite a  
8 task. So that's what keeps me up at night,  
9 besides the fact that we have 5,000 deliver  
10 vehicles on the road. That really keeps me up  
11 at night.

12 The gentleman that talked about state-specific  
13 issues, we focus on California, Texas, Florida,  
14 New York, and New Jersey when it comes to work  
15 comp. Those are the states that cause us the  
16 most -- I don't want to say grief here in your  
17 hometown of Florida, but Florida is definitely  
18 one that is a real problem for us. So we focus  
19 on those states. We hold state-specific  
20 training every year for our HR and our  
21 loss-prevention teams and our store-management  
22 teams on how to deal with claims in those five  
23 states, and it's very effective for us.  
24 I guess our biggest issue for us is really  
25 benchmarking. Our biggest issue with NIOSH and

1 NORA is to set an agenda to benchmark with  
2 other retailers. Everybody kind of measures it  
3 all differently. There's a similar study  
4 that's done on our loss prevention side by  
5 Dr. Hullenger out of the University of Florida.  
6 He provides us a retail security study every  
7 year that measures shoplifting, internal theft,  
8 turnover, management training. He produces  
9 this and he's done it for probably the last  
10 seven or eight years. We need that same type  
11 of measurement tool for the safety side. What  
12 dollars are spent for safety, how much money is  
13 spent on safety, what other retailers are  
14 spending on safety? We're very fortunate at  
15 Lowe's to have a board of directors, and a CFO,  
16 and a CEO that believes in safety. So when  
17 those one million customers come in every week,  
18 they're going to leave the same way that they  
19 came. Our 175,000 employees are going to go  
20 home safe every night. They put forth a lot of  
21 money, effort, and time in those practices at  
22 Lowe's, and we're very proud of that. We truly  
23 believe that safety sets our company apart from  
24 our main competitor.  
25 I think many of you, if you think back to your

1 visits -- and this isn't going to be a soapbox  
2 about Lowe's. We have wider aisles. We have  
3 brighter aisles. Our customer is focused on  
4 the female. All of us guys that go in there to  
5 buy are being driven by the female in our lives  
6 that told us what we're going to buy. We  
7 recognize that at Lowe's. So we have a nice  
8 and safe setting for our customers to come in  
9 and shop.

10 When you talk about all of those issues in  
11 safety, again, benchmarking is our biggest  
12 piece. We saw it on the slides earlier. Back  
13 injury, ergonomic issues are a huge problem in  
14 retail, especially in big-box retail. It  
15 certainly drives our work comp. Our work comp  
16 and general liability combined is in the  
17 hundreds of millions a year. It's those  
18 customers and employees that get injured that  
19 concern us the most. I appreciate the time.  
20 It's great to be here and to listen to  
21 everybody's comments and I appreciate it.  
22 Thank you.

23 **DR. SCHULTE:** Thank you. Mr. Alvarez?

24 **MR. ALVAREZ:** Thank you. I'm from your  
25 neighboring State of California. In fact, what

1 brings me here is about three different  
2 projects that I'm involved with. One of things  
3 I'd like to share besides working in California  
4 for it seems all my life with occupational  
5 safety and health -- I started back in '76 with  
6 enforcement and now I'm responsible for the  
7 onsite consultative program. With respect to  
8 retail and wholesale, it's the programmatic  
9 effects. The changes that we have seen in  
10 California and the tools that we've developed  
11 is the focus that I'm bringing in today.  
12 One is the displacement of manufacturing from  
13 service industries that have resulted in  
14 increases in retail and wholesale  
15 establishments. The focus here will be  
16 directed to the program and process element of  
17 preventing injury and illnesses in workplaces.  
18 Over a decade ago, California promulgated the  
19 injury and illness prevention program that's  
20 known as the IIP Program as a result of state  
21 legislation. Whether it's a private entity or  
22 a public agency that adopts the injury and  
23 illness prevention program or process, the  
24 question that I have here and hopefully that  
25 will stem some research would be that how can



1 we effectively measure the programmatic or  
2 program process as far as its effectiveness in  
3 reducing preventable occupational safety  
4 injuries and illnesses?

5 What I am more interested in is something  
6 that's more specific and tied directly into the  
7 elements of an injury and illness prevention  
8 program or process. NIOSH and the CDC do have  
9 the publication, but again I would ask that we  
10 continue the research that would be a little  
11 bit more definitive.

12 I would like to request a study that will  
13 assess the injury and illness prevention  
14 program process through the systematic process  
15 of evaluation and developing evaluation tools  
16 and that will be specific to consistent  
17 factors, which I will go into detail about a  
18 little bit later.

19 Retail/wholesale establishments are  
20 experiencing major influxes that are  
21 progressive in time with the aging workers,  
22 young workers, Hispanic, non-English speaking,  
23 low literacy, and immigrant workers, and  
24 workers that have two jobs or workers from temp  
25 agencies. Increased workers in businesses lead

1 to increased risks in exposures. From a  
2 proactive perspective, model programs have been  
3 developed and used throughout several states  
4 and include the injury and illness prevention  
5 for workplace security that I was part of many  
6 years ago. Best practice applications on  
7 ergonomic principles -- and we even have an  
8 ergonomic program in California.  
9 How do we know which program elements work  
10 best? How can these program elements be  
11 assessed in fostering our efforts? For  
12 example, in the injury and illness prevention  
13 program we want to know if the company has a  
14 formal safety policy. Do they encourage or  
15 discourage (\*) non-performance? Do they  
16 promote safety in the workplace? What about  
17 the individual responsible? Are they being  
18 identified? Who are the competent individuals?  
19 Do they have the authority with respect to the  
20 assurance of compliance? Are there methods and  
21 means to follow through with this? Are  
22 employees encouraged to report through  
23 communication? In other words, are they given  
24 it in the language that's clearly understood by  
25 those that certainly would be affected the

1           most?

2           So I think that it's having a systematic  
3           approach; one that is consistent and that can  
4           be used to cross state boundaries. The  
5           research data can be used during the  
6           self-evaluation during consultative  
7           interventions to demonstrate the elements that  
8           work best. In other words, we can go from one  
9           industry to another and say okay, these  
10          elements are working in the prevention of  
11          workplace violence. They're working in  
12          ergonomics. They're working in preventing  
13          slips and falls. At least we have a data  
14          system and a process that will evaluate the  
15          effectiveness of the injury and illness  
16          prevention program and process. Thank you.

17          **DR. SCHULTE:** Thank you. I'd like to invite  
18          anyone who would like to come up and say  
19          anything that they have on their mind. Yes,  
20          sir?

21          **MR. MARINER:** I'd like to thank you first for  
22          the opportunity and the invitation to come and  
23          speak with you folks today. My name is Chris  
24          Mariner and I've been a loss control consultant  
25          with the FCCI Insurance Group for 12 years.

1           The FCCI Insurance Group is a multi-line  
2           regional commercial insurance carrier. We  
3           conduct business in 13 contiguous states, from  
4           Florida all the way up to Indiana.

5           In these states we write just over 43,000  
6           policies. These policies include workers'  
7           compensation and general liability coverage  
8           among others.

9           Throughout the nation and the State of Florida,  
10          roughly 80 percent of the businesses are  
11          classified as small businesses. From an  
12          insurance perspective, the clients that we deal  
13          with are almost entirely classified as small  
14          businesses. Our insurers represent a very  
15          broad scope of occupations, including  
16          manufacturing, construction, restaurants, and  
17          general mercantile-type risks.

18          While the NIOSH website is an excellent  
19          resource for safety and loss prevention  
20          professionals, one of the shortcomings that we  
21          see is the complexity of some of the  
22          information that's on the website, and that's  
23          available there for small businesses. Given  
24          the size of these businesses, the technical  
25          level of expertise is typically low. The

1 percentage that have personnel directed to  
2 safety and loss prevention is also very low. I  
3 hate to say it, but the overall ignorance level  
4 with regard to the required standards, training  
5 programs, and worksite safety tends to be  
6 fairly high.

7 We would like to see development of some sort  
8 of a small business compliance section. We  
9 feel that that would be very beneficial to our  
10 policy holders. In addition to some basic safe  
11 work practices, web-based written programs. For  
12 example, respiratory-protection programs; a  
13 sample template program that perhaps employers  
14 or policy holders could go into and make  
15 modifications. Lock out/tag out, blood-borne  
16 pathogens, hazard communications, and having  
17 them be in layman's terms, so that the basic  
18 shop with 15 or 30 employees can understand.  
19 Web-based training programs to assist employers  
20 in meeting the training criteria of these  
21 programs. Somebody mentioned ergonomics, we  
22 need some sort of an interactive ergonomics  
23 section where employers can look at what sort  
24 of ramifications ergonomics have. What type of  
25 work station setup may be best suited for their

1 type of work? Anytime an OSHA standard is  
2 cited on the site, possibly having a hotlink to  
3 that standard, so it takes you directly to the  
4 OSHA website would also be very beneficial.  
5 In addition to the aforementioned items,  
6 certain trades in Florida have seen a  
7 deterioration in their labor pool as a very  
8 serious challenge. Statewide unemployment is  
9 hovering near 3.3 percent as of the December  
10 numbers; with certain areas of the state well  
11 under that mark. Sociologists indicate that at  
12 any given point in time, 1.8 percent of the  
13 population is incapable of working. You can  
14 begin to see the dilemma that is presenting  
15 itself to employers in this state. Employers  
16 are settling for employees that they would not  
17 have hired in the past or turning a blind eye  
18 to immigration issue so that they can have  
19 enough bodies to get their work done. This  
20 combined with the looming retirement of the  
21 baby boomers and the aging workforce spell real  
22 trouble on the horizon for employers here in  
23 the state.  
24 Simple and easy to understand programs and  
25 training materials in several of the

1 predominant languages including Spanish would  
2 be very beneficial to many of the employers  
3 that I represent. Thank you very much and I  
4 appreciate the time.

5 **DR. SCHULTE:** Thank you. Why don't we take a  
6 coffee break and we'll get the last few  
7 speakers and then we'll wrap up in the next  
8 session. So let's take ten minutes.

9 (Whereupon, a recess was taken from 2:00 p.m.  
10 until 2:15 p.m.)

11 **DR. SCHULTE:** Okay. We have a few more  
12 speakers and then we should be able to wrap up  
13 within this session. So I'd like to reconvene  
14 the session. Our next speaker is Mr. Michael  
15 Wahl.

16 **MR. WAHL:** Good afternoon. We got up at about  
17 5:00 this morning and tried to get here as fast  
18 as we could. My name is Michael Wahl. I'm  
19 with the Wal-mart Stores, Incorporated in  
20 Bentonville, Arkansas. I've got a couple of my  
21 colleagues with me, Ryan Stanton and Joe Dial,  
22 who are two of our other directors. I manage  
23 the southeast area of the country. As you  
24 know, Wal-mart's growth is quite popular and  
25 it's gotten itself into quite a bit of areas

1           within the country, and we continue to grow. I  
2           manage the southeast, which encompasses  
3           Louisiana all the way to Florida and then  
4           through to North Carolina.

5           I guess some of the things that we've been  
6           facing this year has to do with our propensity  
7           to grow. We have a lot of remodels, a lot of  
8           projects, a lot of expansions going on within  
9           our company. That in combination with turnover  
10          and the retail environment itself causes a lot  
11          of concerns for us and how can we maintain or  
12          sustain quality talent, new associates,  
13          associates that are willing to grow with the  
14          company, as well as keeping them safe from  
15          accidents.

16          We also in the retail sector have a concern for  
17          our customers as well. Cleanliness is going to  
18          be one of our mottos this year. How do we  
19          maintain cleanliness standards within our  
20          facilities to keep it a safe and healthful  
21          shopping experience for our customers? So  
22          that's some of the things that we're working  
23          on.

24          When you consider the retail sector, you also  
25          look at headline risk. As popular and as



1           expansive as we are as a company, what is  
2           headline risk to us? You look at fires,  
3           catastrophic events -- we're constantly in the  
4           media. So there's always a lot of eyes  
5           watching us on a continual basis. We also have  
6           tire lube express facilities, which is  
7           typically an oil-change facility, but we also  
8           change tires, and that can also lead to a  
9           certain catastrophic event.

10          We also have super centers that include grocery  
11          and the quality-assurance issues. With a lot  
12          of these undercover-type reporting that goes on  
13          we certainly want to maintain our integrity and  
14          not allow things to be placed at risk. We've  
15          got an aging workforce as many of all of us  
16          have. I think that's a concern for us as well.  
17          How do we sustain wellness programs? How do we  
18          maintain fit and healthy associates knowing  
19          that they're more susceptible to soft  
20          tissue-type injuries?

21          We're actually going to be attending a  
22          symposium over in the Orlando area in the next  
23          couple of days talking about off-the-job  
24          accidents. I think that's been somewhat of a  
25          concern or a possible issue with associate

1 injuries within our facilities. How do we  
2 identify and understand the complexity of those  
3 types of accidents that are contributing to our  
4 bottom line? Within retail, I think some of  
5 the concerns that we have is how do you measure  
6 because you have that customer element. You've  
7 got associate man hours, but how do you come up  
8 with a simple measurement for the retail sector  
9 when customers are as important as our  
10 associates in providing a safe place for them  
11 to shop as well? So we're starting to look at  
12 some different ways of measurement and because  
13 we're kind of on a scale of our own in  
14 comparison to a lot of our competitors, we're  
15 actually looking at frequency of accidents per  
16 transaction, which we think will actually take  
17 into consideration the man hours worked as well  
18 as the customer exposure.

19 Probably the types of accidents in our stores  
20 are probably no different than anybody else.  
21 Some of the things that we're working to  
22 improve is our inventory flow process. There's  
23 a lot of technology that's used in the way we  
24 receive and freight merchandise through our  
25 stores and then out to the customer. So

1           there's a lot of work and dedication involved  
2           in how we're going to ease that flow. Rather  
3           than bring merchandise on the sales floor and  
4           then expect it to go back into the back rooms,  
5           we're trying to figure out a way that we can  
6           just easily flow it through our counters or  
7           end-caps on a stack-basis, and then allowing  
8           the customers to check it out through the  
9           checkout and then exit the store. How you ease  
10          that process and reduce the amount of overstock  
11          is important to us. So those are just a couple  
12          of things that I've been thinking about as we  
13          flew in today. Thank you for your attention  
14          and if there's anything else we can do just let  
15          us know.

16         **DR. SCHULTE:** Thank you. NIOSH has had a  
17         variety of experiences in the retail sector  
18         with convenient stores. We've had some work  
19         looking at workplace violence issues. We're  
20         moving to learn more about this sector and  
21         clearly, as I said one in five people work in  
22         this sector and there's a lot of variability in  
23         it. We want to develop research that will look  
24         into a lot of these different kinds of issues.  
25         So we appreciate the kinds of comments that

1 we've heard today. They've been quite helpful.  
2 So we have another speaker, Cameron Brooks.

3 **MR. BROOKS:** Hi, I'm Cameron Brooks. I'm a  
4 senior at Plant High School. For the past few  
5 years I've been working as a summer intern as a  
6 contractor at the OSHA Training Institute  
7 Education Center at USF. During this time, I  
8 was involved in researching and developing  
9 training materials for teenage workers. I  
10 developed numerous safety and health topics in  
11 the OSHA general industry and construction  
12 industry regulations. I prepared Power Point  
13 presentations that were specifically aimed at  
14 the teenage audience. I also ran the USF OTI  
15 Education Center 10 and 30 hour OSHA card  
16 distribution office during the past summer.  
17 What I'd like to see as my perspective as a  
18 teenager is I would like to see NIOSH develop a  
19 training intervention study to determine the  
20 effectiveness of teenage workers retail safety  
21 health. I feel that it doesn't target the  
22 teenage audience as much as it should. I found  
23 that there's a lack of adequate safety health  
24 and training materials designed for the teenage  
25 workers themselves.

1 My concern is that the currently available  
2 educational material may not adequately address  
3 all of the needs of this special and important  
4 risk population. Furthermore, teaching a  
5 teenager to be safe early in his career will  
6 carry over time and create good habits for when  
7 he's older.

8 A training intervention study could evaluate  
9 the type of training and information programs  
10 for injury prevention in a sample of retail  
11 injuries in Florida or another state. The  
12 results of the training intervention study  
13 could be used to estimate the effects that the  
14 various training programs have on reducing  
15 workers' compensation claims and on-the-job  
16 first aid injuries.

17 In addition, there can be publication of the  
18 best training practices of the retail safety  
19 and health training programs in peer-review  
20 literature to be made available by NIOSH for  
21 distribution throughout the rest of the nation.

22 Thank you.

23 **DR. SCHULTE:** Thank you. There are a lot of  
24 the workers in the retail sector that are in  
25 the 16 to 19 year age range, which is an age

1 range that has twice the national average in  
2 injuries. It's important that we develop  
3 programs in that regard. I want to thank again  
4 all of the speakers. I'd like to ask Dr. Vern  
5 Anderson to come up and give a brief overview.  
6 Vern is leading the trade effort and we'll ask  
7 him to just give us a brief summary of what  
8 we've heard.

9 **SUMMARY: VERN ANDERSON**

10 **DR. ANDERSON:** Good afternoon. That's a great  
11 way to start; sort of an icebreaker. At any  
12 rate, that will wake you up, if nothing else.  
13 I was really interested in what went on this  
14 afternoon. It seemed like we started off with  
15 a panel and we had some interesting areas of  
16 concern. We talked about things like the  
17 predator and how you actually can detect and  
18 determine who they were.

19 We talked a little about computer-related  
20 injuries. Then we talked a little bit about  
21 indoor air quality. These all hit on very  
22 basic issues that are relevant certainly to  
23 this sector and to all of the sectors.

24 In the second and third panel there seemed to  
25 be certain trends that I thought were fairly

1 common and perhaps the most important thing I  
2 heard was the emphasis on training; training  
3 dealing with safety and health. We certainly  
4 want to provide the types of training that can  
5 be effective and there is always a concern when  
6 you're providing training in measuring the  
7 effectiveness of that training. I think that  
8 was brought up by a number of the speakers.  
9 Also, we talked about metrics. How do you  
10 judge whether you're being successful? How do  
11 you compare your company to another company?  
12 Are we spending more money for workers' comp?  
13 What are they doing and how do we compare? I  
14 think there's an interest in learning a little  
15 bit about the metrics and determine what those  
16 metrics would be. What are the best measures  
17 of having an effective and safe program?  
18 I think we also touched upon the complexity of  
19 the factors that produce occupational injuries  
20 and illnesses. One speaker talked about the  
21 many multi-factors that contribute to  
22 musculoskeletal problems. We talked about  
23 psycho-social issues and what we know or don't  
24 know in the role that they play. Again, that's  
25 been a question that we've been dealing with

1 for years and we're continuing to work toward  
2 the answer.

3 The small business issue continues to come up.

4 One speaker talked about information on the  
5 website and how we could make it a little bit  
6 more understandable. There's also a concern

7 with managing change. How you manage change in  
8 the workplace. Some workplaces are growing and  
9 some are not. The concerns are how do you

10 provide the proper type of training and  
11 measurements for a company that's really  
12 growing versus one that's stabilized.

13 There were a number of other issues and I'd be  
14 glad to have people speak about any of them.

15 **DR. SCHULTE:** Okay. That's very helpful.

16 Thank you. Now, I'll ask Sid or Max to wrap it  
17 up for us.

**ADJOURN**

**DR. MAX LUM, NIOSH**

18 **DR. LUM:** Vern does this every meeting to get  
19 everybody's attention. We've got to figure out  
20 another way to do this. This drives me crazy,  
21 Vern. So we're at the end of the program and  
22 this is the point where I produce a plaque and  
23 present it to the sponsors, except in my haste  
24 to get to the airport in the snowstorm the



1 plaque is in the back of my car. So we're  
2 going to have to do a virtual plaque for the  
3 sponsors here on the ground.  
4 We're doing 13 of these around the country.  
5 What we heard today is just a snapshot of what  
6 the Institute really needs to pay attention to.  
7 Some of it we're going to hear in other places.  
8 Some we've heard seem like emergencies. I  
9 think those whole issue about cleaning agents  
10 in hospitals is a big issue. We're hearing in  
11 the New England area -- there's a talk show  
12 host in New York City that's really heated up  
13 this idea of looking at this particular  
14 cleaning agent that's used in hospitals. So  
15 that was kind of an emergency-thing that we  
16 heard here. Some of the issues that we heard  
17 are longstanding issues.  
18 I think from a communications point of view,  
19 being the communications director at NIOSH, I  
20 think that what we're clearly hearing across  
21 the town hall meetings is we've got figure out  
22 a better way to get our information out the  
23 door to target audiences that can use it.  
24 Now, it's not just small business folks who are  
25 trying to cope with a whole range of issues.

1           It's getting it to another level to the targets  
2           that we need. Through the ERC Network that we  
3           have around the country, it's a way that we can  
4           reach out to folks. We greatly appreciate Stu.  
5           We can't thank him enough for the amount of  
6           support that they provided so that we could do  
7           this from a distance to make this meeting  
8           happen.

9           The one last person that I would like to thank  
10          is actually my staff member, Ginny Sublett. I  
11          know some of you that were here this afternoon  
12          had heard from her many times because there was  
13          one person who called me and said look, I'm  
14          coming already, turn that woman that keeps  
15          calling me off. So of course, that is music to  
16          my ears as a communication person because it's  
17          often the other way, and that is we don't know  
18          what you're doing. Nobody told us about the  
19          meeting or we would have been there. So we did  
20          send out an enormous amount of mail followed by  
21          an enormous amount of e-mail. We're sorry if  
22          you got more than your share, but we do  
23          appreciate it.

24          Stu, come up here a minute. I wanted to  
25          compliment your haberdasher before we left. I

1           just want to say to you thank you very much.  
2           Thank you for your staff. I've known Stu a  
3           good 20 years and you always seem to come  
4           through and you did again. Thank you again.

5           **DR. SCHULTE:** I want to thank NIOSH for really  
6           assisting us. Of course, we've had a  
7           relationship with NIOSH that goes back to when  
8           I was in Cincinnati working there. We had an  
9           ERC and health-hazard evaluations and some of  
10          the people on the NIOSH staff we trained and  
11          researched with. So it's been a real long  
12          relationship. I've always found NIOSH to be  
13          very supportive. I'm glad we did it here in  
14          Florida because there are some unique issues  
15          from Florida and that those need to be  
16          discussed and implemented. So again, thank you  
17          very much. I want to thank the audience for  
18          coming and your participation.

19          **DR. LUM:** This is the time that I usually give  
20          the plaque. So this is a virtual plaque, be  
21          careful with it. Again, thank you for coming  
22          and thank you for staying.

23  
24                   (Whereupon, the meeting adjourned at 3:00 p.m.)

25

**CERTIFICATE OF COURT REPORTER****STATE OF GEORGIA****COUNTY OF COBB**

I, Shane Cox, Certified Court Reporter, do hereby certify that I reported the above and foregoing on the day of February 13, 2006; and it is a true and accurate transcript of the testimony captioned herein.

I further certify that I am neither kin nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 15th day of March, 2006.

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**SHANE COX, CCR****CERTIFIED COURT REPORTER****CERTIFICATE NUMBER: B-2464**