

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 Salt Lake City, Utah, on  
February 27, 2006.

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-- "\*" denotes a spelling based on phonetics, without reference available.

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

**TOWN HALL ORGANIZERS**

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**PROCEEDINGS**

(9:00 a.m.)

**OPENING REMARKS****DR. MAX LUM, NIOSH**

**DR. LUM:** Good morning, and thank you very much for sharing some of your day with us. I appreciate you being here and taking time out to be with us. I'm Max Lum. I'm the Communication and International Coordinator for NIOSH in Washington, D.C. NIOSH is the National Institute for Occupational Safety and Health. Not OSHA is what we frequently say. We are a research organization associated with the Centers for Disease Control and Prevention in Atlanta. We're one of the centers of the Centers for Disease Control. The mission of NIOSH is really research and workplace safety and health. That's workplace safety and worker safety, which is the focus of the Institute's work. It's my pleasure, really, to welcome you to this town hall meeting. This is the eighth town hall meeting that we've done. As we move across the country, we're doing 13 of these around the United States to really receive input about our research agenda; The National Occupational Research Agenda, the NORA project.

1 NORA is a concept that the Institute took on  
2 about ten years ago to kind of guide its  
3 research. We needed stakeholder participation  
4 in deciding our research agenda and our  
5 director at that time put a committee together  
6 and we formed up in 1996 this NORA approach to  
7 setting our research agenda. As part of that  
8 approach it has major stakeholder input, real  
9 input, from people in the field about our  
10 research agenda. It's broader than one  
11 particular agency's agenda. It's really an  
12 agenda for the nation. It's the National  
13 Occupational Research Agenda, not our NIOSH's  
14 occupational research agenda. Why that is  
15 important is NIOSH is a small agency and small  
16 in funding. It has about 1200 employees around  
17 the country. What's important about NORA is it  
18 allows us to leverage funds. When we do a  
19 research project we can reach across to other  
20 federal agencies, to the NIH, to the Department  
21 of Energy, to the Department of Defense and we  
22 can broker our research plans with other  
23 agencies. That really makes it a National  
24 Occupational Research Agenda.  
25 We're also pleased today that we have some

1           guests that will be with us, and there have  
2           been some changes in the program. I think Kurt  
3           will introduce those later. I just want to  
4           thank the ERC, the Educational Research Center,  
5           here. Kurt Hegmann is the director of this  
6           Center. These projects and these town hall  
7           meetings take a great deal of work. I guess  
8           four months ago when we floated this idea up  
9           about doing a town hall meeting here, Kurt  
10          jumped on the idea. At least I remember it  
11          that way. He got behind it and we appreciate  
12          all of the hard work that went into the  
13          meeting.

14          The groundwork for NORA was laid ten years ago  
15          in setting our research agenda. Through these  
16          town hall meetings in 1996, we heard directly  
17          from our stakeholders. They spoke eloquently  
18          about the issues that mattered most to them,  
19          and the input was instrumental in shaping the  
20          first ten years of the agenda. In all, I think  
21          that original agenda ten years ago -- We  
22          probably had the input of 500 diverse  
23          organizations and individuals. We conducted  
24          three town hall meetings around the country.  
25          We appreciated the time that they provided and

1           then stayed with us -- many of those  
2           organizations and we'll ask you the same, which  
3           is to stay with us as we develop our research  
4           agenda.

5           Based on the input from the original town hall  
6           meetings, NORA set out a research agenda, which  
7           included 21 priority areas. This is changing  
8           and we'll have some speakers talk to you about  
9           what those changes are in NORA for the next ten  
10          years. The future was really shaped by those  
11          town hall meetings. We can point to real  
12          successes regarding NORA over the last ten  
13          years. And actually I want to come back to the  
14          importance of this town hall meeting. I just  
15          want to share a little story with you.

16          I remember being at the one in Washington and  
17          there was a group of nurses that came from a  
18          large hospital in Philadelphia to testify at  
19          that town hall meeting. They brought a patient  
20          with them who was also a nurse. They talked  
21          about a subject that we were aware of, but  
22          really wasn't a part of our research agenda at  
23          that point. And that was the problems of latex  
24          allergy and wearing latex gloves all day.  
25          Several nurses had acquired an allergic



1           reaction to the latex in the gloves and really  
2           were debilitated. They could not work anymore  
3           and certainly couldn't work in a hospital  
4           setting. I just think it calls to mind how  
5           important these town hall meetings are. We  
6           think that through a whole process of  
7           surveillance activities that we understand what  
8           we should be researching and what our research  
9           agenda should really focus on, but we come to  
10          the town hall meetings and we talk with folks  
11          who are in the field and who are actually  
12          workers, worker organizations, academics, and  
13          we get a whole different perspective about what  
14          we should be looking at, or we get confirmation  
15          that we're doing is the correct approach.  
16          I think that's why we're here today. We're  
17          here to really hear from you today. Your  
18          comments in the afternoon after working at the  
19          tables this morning -- we'll ask you to come to  
20          the podium and speak about a summary of what  
21          you discussed, what are priority areas for you,  
22          concerns or issues, problems.  
23          We have a court reporter taking your notes and  
24          it will become a part of the NORA public  
25          docket. This information will be passed onto

1 the governance bodies of our research program  
2 to deal with. So it's a direct input into our  
3 research agenda. Also, we will put your  
4 comments up on our website. It's a totally  
5 transparent process. We're not going to do a  
6 lot of editing of comments. It goes up for  
7 everyone to see. We are asking you to do some  
8 work here today and we have some NIOSH folks  
9 who have been instrumental in helping us on  
10 this town hall meeting that will be circulating  
11 and be at the tables, mostly as guides, not as  
12 scribes, not to really provide anything other  
13 than guidance and some suggestions and a little  
14 background on what the Agency has been working  
15 in in that particular area.

16 So I think I'll turn it over to our local host,  
17 Kurt. He'll have some instructions and some  
18 background to provide. Again, we thank you  
19 very much for being here and for giving your  
20 time this morning. Please know that to us it's  
21 extremely useful. Thank you.

22 **KURT HEGMANN, RMCOEH**

23 **DR. HEGMANN:** Well, thank you, Max. I  
24 appreciate it very much. Most of you who know  
25 me know I tend to be a little on the outgoing

1 side, especially when I get an enthusiastic  
2 subject. You'll see that I'm more enthusiastic  
3 today than normal, and I'll explain why in just  
4 a minute. On behalf of the Rocky Mountain  
5 Center for Occupational and Environmental  
6 Health at the University of Utah welcome to  
7 this NORA town hall meeting. The Rocky  
8 Mountain Center is one of the 16 NIOSH  
9 sponsored education and research centers in the  
10 United States. As such we cover, basically,  
11 the inter-mountain west. We're the only one in  
12 Region Eight.

13 Max mentioned that this is not a frequent  
14 occurrence. This is a rare event. I will tell  
15 you that I remember 1996. At that time I was  
16 in Milwaukee. I remember the call going out to  
17 go to these meetings and I thought Chicago  
18 O'Hare is 90 miles away; is it really worth my  
19 time? I literally was going through that kind  
20 of calculus. I am so glad that I went because  
21 my skepticism was almost -- even though I was  
22 living in Wisconsin at the time -- I almost had  
23 the western attitude -- we'll have to edit some  
24 of these comments out -- that I'm from the  
25 federal government and I'm here to help.

1 I will give you a couple of examples. Now, Max  
2 mentioned one about the latex, but I'll mention  
3 another one that came directly out of this  
4 meeting that I participated in. We  
5 participated in a similar manner of developing  
6 these ideas. And at that time I was not funded  
7 in terms of NIOSH research, and I was learning  
8 the ropes clinically. I kept on coming against  
9 one obstacle after another after another  
10 regarding how are we supposed to treat people.  
11 We don't know. We don't know what the  
12 diagnostic tools are. We don't know about  
13 ergonomic evaluations to the extent that we  
14 should. We don't know about what factors cause  
15 musculoskeletal disorders, which was my  
16 particular area of interest. So that was  
17 actually the concept that I thought well, I'll  
18 go to this meeting and if I'm going to go then  
19 I'm going to participate. So I dug in and said  
20 okay, we do not have cohort studies on  
21 musculoskeletal disorders. That was pretty  
22 much the agenda that I was pushing.  
23 Here we are ten years later and there are  
24 several of these studies, which have been  
25 funded. And this past Thursday and Friday for

1 the first time we have begun returning the  
2 results. Now, cohort studies take years to  
3 actually implement, develop, and get the data.  
4 We've actually got the data going back into the  
5 companies, the occupational safety and health  
6 individuals. There are a number of people in  
7 this room who actually attended those  
8 conferences. So they're here listening to me  
9 for a third day. Sorry. We're actually at  
10 that point of extremely meaningful data being  
11 returned. Obviously, we don't have all of the  
12 answers, but we've got a few of them. And let  
13 me give you a few of those topics.  
14 Coming out of these studies is information that  
15 posture may be irrelevant in job evaluation  
16 methods and the cause of things like carpal  
17 tunnel syndrome. I said irrelevant. Most of  
18 the job evaluation methods emphasize posture  
19 over anything else. Our studies -- more than  
20 one of them -- say force is the main issue.  
21 Can you imagine how many years we're going to  
22 have to work on this if these studies in fact  
23 continue to show these types of results and how  
24 long it's going to take us to change the whole  
25 world in these areas? It came out of that NORA

1 town hall meeting in Chicago where I sat at a  
2 table and I pushed that subject and people  
3 wanted to push it down, but I wanted to push it  
4 up. We had a little light back-and-forth. We  
5 pushed it up towards the top of the list  
6 because other people started looking at it and  
7 saying yeah, that's right.

8 So now here we are ten years later with actual  
9 real data coming out, real meaningful results  
10 that have enormous impact in terms of  
11 occupational safety and health, as well general  
12 public health, quite frankly. These data are  
13 so cut-to-the-core data and that's why I'm so  
14 excited that you're here. That's why we were  
15 rebel rousing to get you here because unlike my  
16 skepticism back in 1996 this is the only  
17 example I know of of a truly very responsive  
18 federal agency. Again, we need to edit these  
19 comments. I mean, this is just tremendous. So  
20 again, it's a wonderful, wonderful aspect of  
21 how NORA has changed occupational safety and  
22 health.

23 I'm going to go over these other slides in a  
24 moment because if I go over those right now it  
25 will be a little too early. What we are going

1 to do now is just transition and I'll give you  
2 those last couple of slides on what we're going  
3 to do in a moment.

4 The idea is that you're going to have an  
5 opportunity to participate in more than one of  
6 these round tables. The way you're going to do  
7 that is you're going to be able to participate  
8 in the one you're at right now. Those of you  
9 that are going to be able to hang on for the  
10 afternoon, you'll have an opportunity to  
11 comment on other areas and say gee, you missed  
12 X, Y, or Z from my perspective or something  
13 like that in the afternoon. There are also  
14 going to be opportunities for you to write in  
15 comments separately if you cannot wait for  
16 that. So that's the cut-to-the-chase version  
17 of this.

18 With that, I'd like to turn this microphone  
19 over to our first invited guest and I thank  
20 Alan Hennable very much for his willingness to  
21 step in the shoes of Commissioner Ellertson who  
22 was unable to attend due to a family emergency.  
23 Alan Hennable is the Deputy Commissioner for  
24 the Labor Commission for the State of Utah.

25 Alan?

1           **ALAN HENNABLE, LABOR COMMISSION OF UTAH**

2           **MR. HENNABLE:** I'm happy to participate. I  
3 apologize for Commissioner Ellertson not being  
4 able to be here, but his father-in-law passed  
5 away yesterday. So he's involved in family  
6 matters, as you can imagine. But I am happy to  
7 participate in this meeting. The Labor  
8 Commission, among other things, administers the  
9 Utah Workers' Compensation Program and also the  
10 Utah Occupational Safety and Health Program.  
11 So we're involved in this at both ends. We do  
12 everything we can to insure that workplaces are  
13 safe and that workers are healthy, but we also  
14 have to deal with the consequences when that  
15 hoped for situation doesn't actually exist.  
16 So from our standpoint there is nothing more  
17 important than making sure that when a worker  
18 goes off to work in the morning to support  
19 himself, or herself, or family, that they come  
20 back at the end of the day healthy and whole.  
21 We recognize that Utah and the rest of the  
22 country has profited from this process that  
23 you're engaged in. The results of this have  
24 benefited people over the last ten years. It's  
25 already been mentioned that latex was an



1           unrecognized problem and this brought it to the  
2           surface. Now, action has been taken on that  
3           point. We know from our view of the situation  
4           that progress is made. There are many, many  
5           more workers in Utah now than there were ten  
6           years ago. The rate of occupational death has  
7           decreased and we know from our workers'  
8           compensation experience that we are not seeing  
9           more reportable injuries than we were ten years  
10          ago. So we have a vast increase in the number  
11          of workers, but we are not seeing a  
12          proportionate increase in accidents, at least  
13          through our workers' compensation system. So  
14          we take that as a very hopeful sign.  
15          We see the benefit of what's happened in the  
16          past, but we also know that there is more to be  
17          done. We see these emerging problems through  
18          our operations at the Commission. A few of  
19          those that we note -- first of all you can  
20          categorize some as ergonomic issues. What's  
21          the effect of typing on keyboards? We know  
22          that there is research on both sides of this  
23          issue, but it's a controversial question, but  
24          it's very important in the modern workplace.  
25          The same questions could be asked about the

1 work that a grocery clerk does in checking  
2 groceries. So we know that there is whole  
3 field of ergonomic issues that cries out for  
4 investigation.

5 Secondly, the coal mining industry. Although  
6 it's been quite a long time ago, Utah has had  
7 direct experience with the tragedy that can  
8 occur in the coal mines, not just to families,  
9 but to whole communities because they can be so  
10 widespread and so devastating when they occur.  
11 Even this year we've had a death in Utah's coal  
12 mines. So this is something that will always  
13 be of concern to Utah because Utah has a lot of  
14 coal and we depend upon miners and we owe it to  
15 miners to make their conditions as safe as  
16 possible.

17 Third, there is a developing field of chemical  
18 exposures in the context of emergency  
19 personnel. For example, when a firefighter  
20 fights a fire what kind of chemicals are they  
21 being exposed to and what's the effect of that  
22 exposure upon them? There's a proposal in the  
23 Utah legislature this year to study this issue.  
24 It started out as a proposal to just presume  
25 that that exposure led to a variety of cancers.

1           Now that the initial has morphed into a study  
2           proposal, it's obviously something that's of  
3           great concern, not just to the fireman, not  
4           just to the cities and counties that employ  
5           them, but it's risen to the level of a concern  
6           to the State of Utah and its legislative body.  
7           By the same token, what are the effects of the  
8           exposures that drug enforcement agents receive  
9           in the course of busting methamphetamine labs?  
10          We know that we're being deluged with workers'  
11          compensation claims coming out of that  
12          situation. We are desperately going to need  
13          good scientific studies on that point.  
14          The fourth thing that I'll mention is we need  
15          at the Commission good information on medical  
16          treatment for circumstances after they do  
17          arise. Narcotic use, a tremendous expense and  
18          there's a grave concern that the use of these  
19          narcotics is in the best interest of the  
20          injured worker. We just don't know, but we  
21          know it's a problem. The same can be said of a  
22          lot of different medical-treatment areas. In  
23          our workers' compensation program just a couple  
24          of weeks ago we had a case where the injured  
25          worker was probably not totally disabled

1           because of the work injury, but over the course  
2           of eight or ten years she became permanently  
3           and totally disabled because of the medical  
4           care that she had received. So this is one  
5           clear and discrete example of a person whose  
6           life was made worse and it could have been  
7           avoided. Maybe the accident couldn't have been  
8           avoided, but what came after that could have  
9           been and should have been.

10          Well, these are just a few items that we know  
11          are problems for the Labor Commission. I know  
12          it's just the tip of the iceberg. I also know  
13          that these are things that have risen to a  
14          certain level of importance. They've gone  
15          through different screening processes and  
16          they've come before the Commission now. We  
17          know that there are other things that you're  
18          seeing that are just emerging. The iceberg  
19          hasn't even broken the surface yet. There's  
20          just a roiling of the water that you're seeing,  
21          but within the course of ten years these things  
22          will be problems as well. We're in no position  
23          to identify those things, but we know that you  
24          are and we think that's a tremendous value of  
25          this kind of a conference. So with that, we

1 wish you well and we look forward to the  
2 progress that will come out of this over the  
3 next years just as there has been progress in  
4 the past. Thank you.

5 **DR. HEGMANN:** Well, thank you, Alan. I  
6 appreciate the insights from the Labor  
7 Commission. It's interesting to hear the view  
8 from the Labor Commission on what's being seen.  
9 Our next guest speaker is Natalie Gochnour.  
10 Natalie is from the Salt Lake Chamber of  
11 Commerce and Vice President for Public Affairs  
12 and Communication. Natalie, join me on stage.  
13 I appreciate the fact that you could break away  
14 from those business meetings you guys have on  
15 Monday mornings. Welcome back to Utah.

16 **NATALIE GOCHNOUR, SALT LAKE CITY CHAMBER OF COMMERCE**

17 **MS. GOCHNOUR:** Good morning. The real business  
18 meetings as you all might know are happening up  
19 on Capitol Hill today. We have three days left  
20 in the legislative session and the Salt Lake  
21 Chamber has a lot of hot issues up there, some  
22 of which are important to this audience. But  
23 I'm going to step back for just one second and  
24 introduce myself to you a little bit and  
25 describe to you some relatively recent

1 experiences I've had that relate to  
2 occupational health and safety.  
3 Many of you might remember when Mike Leavitt  
4 resigned as governor and went to lead the  
5 Environmental Protection Agency that there was  
6 a small group of his staff that left with him,  
7 and I was one of those. I served for 15 months  
8 at the Environmental Protection Agency with  
9 Mike Leavitt and then had the ten months at  
10 Health and Human Services working right in the  
11 Humphrey Building and working on a lot of  
12 issues as a counselor to Secretary Leavitt.  
13 Because of that, I have some interesting  
14 experiences as of late working with some of the  
15 best in the world in occupational health and  
16 safety. I didn't work with these issues  
17 directly, but worked among people that did.  
18 And I want to just describe to you the real  
19 privilege it was to work side-by-side with  
20 people at the EPA and HHS in our nation's  
21 capital. I'm going to do that by describing to  
22 you the differences in the two federal agencies  
23 for just one moment. I want you to just think  
24 about it this way. Think of really, really  
25 bright people. Think of at the Environmental

1           Protection Agency people that in high school  
2           would have been A students, but they were the  
3           type that didn't attend all of the time. They  
4           knew how to slip away out the backdoor and go  
5           skiing, or mountain climbing, or kayaking, or  
6           something. They have a dual passion for a love  
7           for experiential types of professional  
8           endeavors, and then also their incredible  
9           commitment to their job. But they are very  
10          smart and very dedicated.

11          Then you head down Pennsylvania Avenue and take  
12          a little right and you're in the Humphrey  
13          Building of Health and Human Services. Again,  
14          you're with very, very bright people;  
15          straight-A students in high school that never  
16          missed a day. These are the kind of people  
17          that would have gotten the 100 percent  
18          attendance at the end of the day purely because  
19          of their commitment to their work. You end up  
20          having two very remarkable federal agencies  
21          that are very, very different in character.

22          One of the real privileges of working there was  
23          to watch former governor Leavitt work in those  
24          environments and muster the momentum and  
25          enthusiasm for the mission of each of the

1 agencies.

2 While Administrator Leavitt was at the EPA our  
3 nation passed new clean diesel standards, where  
4 they took the sulfur out of diesel, much like  
5 we've taken the lead out of gasoline. They  
6 passed the most protective air-quality  
7 standards in our nation's history during his 15  
8 months there. When you go to Health and Human  
9 Services, I worked Mike Leavitt from day one  
10 and he began devoting all of his creative and  
11 strategic energy toward this pandemic flu  
12 problem. And also spend a lot of time working  
13 on electronic medical records, health IT, and  
14 those sorts of things. In the process, I  
15 believe, you have at the head of Health and  
16 Human Services, of course, where NIOSH is a  
17 leader who is deeply devoted to protecting the  
18 health and safety of America's workers. He is  
19 someone who will always have an open door and  
20 always have a hands-on effort given to anything  
21 of importance to our country's health and  
22 safety. That's a personal testimony, but one  
23 that I think is earned in the sense that I  
24 spent so many hours, and days, and weeks, and  
25 months in backrooms watching this man work.



1 I want to talk to you a little bit about Salt  
2 Lake Chamber. Salt Lake Chamber is our state's  
3 largest and longest serving business  
4 association. We have members in all 29  
5 counties of the state. So we're statewide in  
6 our reach. In fact, we have 22 states that  
7 have members in the Salt Lake Chamber, if you  
8 can believe that. These are people in states  
9 that have a business interest in Utah and join  
10 the largest business association. We have over  
11 2,000 members. We have a full-time lobbyist,  
12 who is working day to day on a couple of  
13 legislative initiatives that you might find  
14 interesting and you ought to watch as the  
15 session walks towards a close on Wednesday.  
16 One of them is healthcare costs. We have a  
17 business committee on healthcare costs. It  
18 just started and your leader, Kurt, is  
19 represented on that, I understand. We have  
20 staked out a mission that both workers'  
21 compensation fees and healthcare costs and the  
22 like are going to be a major priority for the  
23 Salt Lake Chamber in the coming year. While we  
24 do not have at the session this year, a bill  
25 that is representing the collective interests

1 of this committee we expect to have next year.  
2 And you can count on the Salt Lake Chamber to  
3 be a very active and productive voice on that  
4 matter.

5 The second legislative issue that you've  
6 probably heard a little bit about that does  
7 carry a bill with it is something called the  
8 Utah Science Technology and Research  
9 Initiative, or USTAR. USTAR is the economic  
10 development initiative that is endorsed by the  
11 Governor's Office, the Salt Lake Chamber. It's  
12 endorsed by chambers as far south as the  
13 St. George Chamber. It is endorsed by the Utah  
14 Information Technology Association and the Life  
15 Sciences Association, which I understand have  
16 now merged. It is essentially an effort after  
17 about two years of study to figure out what is  
18 it that we can do in our state to ensure  
19 prosperity long term. Many of you might know  
20 that our wages as a percentage of the national  
21 average -- I should say our pay, our average  
22 annual pay. Think of it as an average salary  
23 for the year. It has been declining for years  
24 in this state. In other words, we are losing  
25 ground with respect to our national

1            counterparts on how much money we make. That  
2            concerns business leaders and USTAR, we  
3            believe, is the right way to invest money for  
4            the long term for the state's economy. What  
5            they do in USTAR is essentially go out and  
6            recruit world-class research teams to come to  
7            our state and focus on the areas that we  
8            already have a competitive advantage in. From  
9            that, they then commercialize new technologies  
10           that will create high-paying jobs and provide  
11           income to Utah families.

12           The reason it should be of interest to this  
13           group is that this group, of course, could be a  
14           beneficiary of some of these research dollars  
15           in terms of the science, technology, and  
16           research that we want to bring to bear. My  
17           understanding is that some of these grants have  
18           already come to people in this room who have an  
19           interest in cutting-edge occupational health  
20           and safety research. And the Salt Lake Chamber  
21           will be working hard until midnight on  
22           Wednesday to make sure that this legislature  
23           passes both ongoing and one-time funding for  
24           the USTAR Initiative. What that will amount to  
25           is a new facility here at the University of

1 Utah and one at Utah State University, our two  
2 premier research universities, to recruit  
3 world-class scientists and also to purchase  
4 state-of-the-art equipment to make our research  
5 dreams transition to actual money in people's  
6 pockets. So these are two exciting initiatives  
7 that I encourage you to be a part of and to  
8 follow. The hope would be that through  
9 attention to a prosperous economy and safe  
10 workforce that we can be prosperous over the  
11 long term in the state. I leave you with that  
12 message and want to wish you well in the  
13 remainder of your town hall meetings. Thank  
14 you.

15 **DR. HEGMANN:** And next I'd like to turn over  
16 the mic to Dr. Soderholm. Dr. Soderholm is  
17 from NIOSH. Thank you for being with us.

18 **INTRODUCTION TO RESEARCH AGENDA PROCESS**

19 **SID SODERHOLM, NIOSH**

20 **DR. SODERHOLM:** Well, thank you Kurt. It's a  
21 pleasure to be here. We've had a number of  
22 these town hall meetings around the country and  
23 this is a unique one. We're very much looking  
24 forward to the kinds of input that we'll be  
25 able to receive today to help guide the

1 research in the nation on occupational safety  
2 and health.

3 We've talked a little bit about the fact that  
4 NORA has been around for a while. If I had to  
5 sum up the vision of NORA, it would be that  
6 it's a national partnership effort to define  
7 and conduct priority research on occupational  
8 safety and health. So some of the elements of  
9 this vision are that we seek stakeholder input  
10 at least once every ten years and really on an  
11 ongoing basis in different ways. We identify  
12 research priorities, not just for the research  
13 that NIOSH will do and NIOSH will fund through  
14 the allocation through congress, but research  
15 priorities for the whole nation. So when  
16 corporations and organizations around the  
17 country and around the world have resources to  
18 use on occupational safety and health research  
19 they can look at this set of priorities and see  
20 what this process has come up with at some of  
21 the major areas where additional information  
22 and work is needed.

23 Working together -- the partnering happens at  
24 all stages of this. Working together to  
25 address the priorities, to conduct the

1 research, to make sure we're working with the  
2 right people in industry, and in labor, and in  
3 professional organizations to be able to  
4 conduct the research and to have the  
5 information that's generated be used  
6 effectively in workplaces to reduce the hazards  
7 to workers and therefore the cost of doing  
8 business.

9 Finally, I think as Max mentioned and I think  
10 Max has heard my talk so many times at these  
11 meetings that the ended up giving part of it;  
12 so some of this may sound a little familiar.  
13 Another aspect of the NORA vision is to  
14 leverage funds. To not just say that the funds  
15 that we have available for occupational safety  
16 and health research are the funds that come  
17 directly to NIOSH through DHHS and through CDC,  
18 but that through NIH there are many health  
19 questions that are of interests to the National  
20 Institute of Health Institutes and to the EPA.  
21 We've done some joint work with them and many  
22 others, including, again, those corporations  
23 that feel that they can invest some of their  
24 earnings in research on occupational safety and  
25 health.

1           So we're heading into the second decade of  
2           NORA. In fact, the end of April is the tenth  
3           anniversary of the National Occupational  
4           Research Agenda. And the promise always was  
5           that the initial research agenda -- Max  
6           mentioned the 21 priority areas would be there  
7           for ten years and then we would need to look at  
8           the process again and to go back to  
9           stakeholders again and make sure we were in the  
10          next ten years working on the most important  
11          issues. So some of the main elements that I've  
12          gone over for NORA are still there. They're  
13          still the same. There are some changes. We're  
14          focusing now -- our subtitle is we're moving  
15          research to practice in workplaces through  
16          sector-based partnerships. So it's still  
17          research. It's still partnerships. We really  
18          want to make sure that we're working with the  
19          right people to get the information generated  
20          and effectively used in workplaces.

21          So what is a sector-based approach? Well, we  
22          understand this to be that we're going to  
23          address the most important problems in each  
24          sector and each part of the economy. I'll talk  
25          a little bit more about how we might define

1 problems. There are a lot of different ways we  
2 think of them in terms of exposures, or  
3 diseases, or injuries, or even failures of the  
4 safety and health system. The sector-based  
5 approach will have one or more separate  
6 research strategies for each of eight major  
7 sector groups. I'll talk about those sector  
8 groups a little bit in a minute, and in  
9 addition, to focus on the needs within sectors.  
10 There are many, many issues that cross sectors.  
11 The 21 priority areas of the first decade of  
12 NORA really were cross-sector issues; issues of  
13 hearing loss. Hearing loss is a problem for  
14 some workers in every sector in the economy.  
15 So that's a cross-sector issue. So the fact  
16 that we're focusing on sectors doesn't mean  
17 we're going to lose research on hearing loss  
18 and musculoskeletal diseases and all of those  
19 issues that cross many sectors. It just means  
20 that we're focusing a little different to make  
21 sure that we have the right partners involved  
22 to have the best effect.

23 So why are we going this way? Well, workplaces  
24 are organized by sectors. Every one of us  
25 works somewhere and has some identity with the



1 kinds of companies, the kinds of organizations  
2 that do similar kinds of work. Many research  
3 needs differ by sectors, although many are very  
4 similar across sectors; as I mentioned the  
5 cross-sector issues. We think that focusing on  
6 the sectors will really help us focus on the  
7 goals, the overall goals, how we're going to  
8 get there, and then how those results can be  
9 used. And that will really help us make sure  
10 we're working with the right partners. One of  
11 the most interesting aspects of these town hall  
12 meetings is that we become familiar with new  
13 organizations, individuals who have a passion  
14 and an interest in occupational safety and  
15 health and self-identify by coming to the town  
16 hall meetings or talking to us and saying I  
17 want to stay involved. And these partnerships  
18 are some of the most important and most  
19 valuable things that we gain by having these  
20 town hall meetings.

21 We think the sector-based approach is going to  
22 be an efficient approach. We need to be  
23 focusing our efforts and focusing on what we  
24 can do to make a difference. So I keep talking  
25 about these sectors and here in brief are the

1 sectors in abbreviations. These sector  
2 groupings actually come from the North American  
3 Industrial Classification System, which is a  
4 system used by the United States, Canada, and  
5 Mexico to categorize all companies as far as  
6 what sector they work in. Their system is  
7 quite detailed, but it comes to about 20  
8 two-digit codes that they call sectors and then  
9 we've grouped some of those because 20 is just  
10 too many to deal with. We've grouped some of  
11 those that we think will have similar issues  
12 into eight sector groups. And you can see  
13 agriculture, forestry/fishing, construction,  
14 mining, public and private services. These are  
15 very broad categories, and are the types of  
16 sector groupings that we have come up with.  
17 The NIOSH role is to provide the stewardship  
18 for the process. We know the process wouldn't  
19 go forward without us, but we don't own the  
20 process. The process is a partnership process  
21 where we work together with others to define  
22 and conduct this research. The cross-sector  
23 research councils is really sort of the  
24 executive committee of these research councils  
25 and will be making sure that everybody is able

1 to move forward. I'll talk a little bit more  
2 about the research councils and who'll be on  
3 them. They will be making sure that they're  
4 making progress, that there is some consistency  
5 across the different research councils, and  
6 also looking for those opportunities where it's  
7 most effective to look at issues across  
8 sectors. You know, the basic biology of  
9 hearing loss. If that's an issue that will  
10 really help solve the problem in a number of  
11 sectors, that isn't a sector-specific issue,  
12 but that can be dealt with across sectors.  
13 So let's talk a little bit more about the  
14 research councils, these eight groups. We  
15 anticipate having diverse input, including the  
16 input today that will lead to robust research  
17 strategies. So the initial work of these  
18 research councils -- these research councils  
19 will be co-lead. One leader will be a NIOSH  
20 person. One leader will be a stakeholder  
21 representative. And probably two-thirds of the  
22 members of these councils will be stakeholders.  
23 They will be researchers, occupational safety  
24 and health practitioners, members of  
25 professional organizations, members of labor

1 unions, members of trade organizations that  
2 have stepped forward and say that they want to  
3 help define the research strategies within  
4 these sectors and help make sure the work gets  
5 done and is used. The initial work of these  
6 research councils -- front and center will be  
7 the stakeholder input that we're receiving  
8 through the town hall meetings, through the  
9 website.

10 One of my closing messages to you if you  
11 remember noting else, then remember these  
12 messages. One of them is that we have a  
13 website and I'll give you the website address.  
14 This is where you go to the NIOSH website and  
15 look at NORA and you can actually type into a  
16 textbox that the main concern in the  
17 construction industry from my point of view is  
18 such and such. And that input will go into the  
19 NORA docket and that docket will be shared with  
20 the NORA research councils. So there will be  
21 the stakeholder input through what's said  
22 today, through the docket, through e-mails that  
23 are received to the docket. So we're trying to  
24 provide a number of ways for people to have  
25 input. And we certainly encourage you as you

1           give input today -- also if you have another  
2           thought or want to reinforce something, go to  
3           the website and find a way to get that  
4           information into the docket. We've tried to  
5           make it fairly easy.

6           Besides the stakeholder input, if we get a  
7           group of people around the table they have  
8           their own expertise, and that's why they were  
9           chosen to be part of the research council. And  
10          we don't live in a vacuum. We have workers'  
11          comp data. We have all kinds of data lumped  
12          under the general heading of surveillance data  
13          that tells us who's getting hurt, where they're  
14          getting hurt. It tends to be stronger in the  
15          injury area than it is in the area of these  
16          long-term health effects that are hard to  
17          attribute to occupational exposures. The  
18          surveillance data will provide a lot of  
19          information, too.

20          So the initial work of the NORA research  
21          councils will be to take all of this input, go  
22          through a priority-setting process, and come up  
23          with a draft research strategy. So this will  
24          actually set overarching goals, like reduce the  
25          silicosis in mining. And then what steps will

1           need to be taken? What are the intermediate  
2           research goals? Where's the missing  
3           information? What has to be done in the  
4           shorter-term periods? So if all of those  
5           intermediate goals are successfully, then you  
6           will have met your overarching goal. And  
7           finally, who needs to be at the table? Who  
8           needs to be doing this work? And once the  
9           information is gathered, who needs to be  
10          disseminating it, putting it into practice, so  
11          it will really make a difference in the  
12          workplace? These are all aspects of this  
13          draft-research strategy, which will then be put  
14          on the web. Another thing we'll ask you to do  
15          is to self-identify, even if you don't feel you  
16          can be on a research council, let us know that  
17          you'd like to be on the mailing list. When the  
18          draft-research strategy for one or more of  
19          these sectors comes out, I'd like to be  
20          notified so I can go look at it and have some  
21          input about it. It's meant to be a very open  
22          and transparent process with lots of  
23          stakeholder input.

24          So I've been talking about all kinds of ways,  
25          but how can you participate? Certainly through

1 providing input and volunteering. So as I  
2 mentioned, your input will be entered into the  
3 NORA docket. It's actually a set of files in  
4 Cincinnati, where somebody can travel to  
5 Cincinnati and look through this set of files.  
6 It's a public docket. But most of the  
7 information, everything that's in text form is  
8 going to be displayed on the web. So there's  
9 the website for the NORA website. If you look  
10 through there there's an opportunity to click  
11 on a place for input, and that brings up ten  
12 boxes. You can put in text information that  
13 you'd like to go into the docket at any of the  
14 eight sector groups or there's a box for  
15 cross-sector issues and then there's a box to  
16 talk about the process. If you look to the  
17 left of each of those boxes on that input page,  
18 you'll see this little unassuming link called  
19 view comments by others. Well, this has been  
20 up for something like eight or nine months now  
21 and that's getting to be a nice rich little  
22 source. So if you're interested in  
23 construction, then you can look on that input  
24 page and click on view comments by others and  
25 see what everybody else has been saying about

1 construction, and that may prompt you to agree  
2 with some of them, add additional input,  
3 disagree, have a different viewpoint; that  
4 would all be valuable.

5 Shane Cox here is working very hard to make a  
6 transcript of the public parts of this meeting.  
7 What you say around the tables won't be caught  
8 in the transcript, obviously. But what we say  
9 this afternoon and the summary reports will be  
10 in the transcript. And Christy Forrester, who  
11 is sitting here at the front table, has the job  
12 of parsing that transcript and actually putting  
13 it into the website for you so it will show up  
14 in the docket. So as soon as we can work  
15 through that whole process, you'll see the  
16 summary reports showing up in the docket on the  
17 website.

18 Now, the docket information -- this input -- is  
19 going to be provided to the NORA sector  
20 research councils. They're going to get every  
21 word of it. They're going to get the  
22 individual comments, but in order to help them  
23 sort through it and be able to focus on what  
24 they want to focus on at any given time, say  
25 again, I go back to hearing loss in



1 construction, if there's a subgroup of the  
2 construction research council that wants to  
3 look at hearing loss issues then we will have  
4 it grouped and indexed so that they can find  
5 the comments that they want when they're ready  
6 to look at them.

7 In addition, the comments will be outlined at  
8 the NORA symposium. This is really the  
9 celebration of the first ten years of NIOSH.  
10 It also happens to be the celebration of the  
11 35th anniversary of the Occupational Safety and  
12 Health Act that formed NIOSH and OSHA. And it  
13 will be the kickoff of the second decade of  
14 NORA. The kickoff really is going to happen in  
15 a set of workshops where we'll provide a brief  
16 summary of what's gone into the docket in each  
17 of the eight sector areas and asked those  
18 assembled to process that information and to do  
19 some initial priority setting themselves and  
20 some initial voting on what the priorities are.  
21 Then, in the afternoon we'll go into a set of  
22 workshops to look at the cross-sector areas.  
23 So the cross-sector areas that we keep hearing  
24 about are things we sometimes call health  
25 disparities or the special populations that

1            seem to be at special risk. Often it comes up  
2            as women workers, youth workers, or  
3            Spanish-speaking, or other workers who don't  
4            speak English at the workplace. Those are some  
5            of the issues that are coming up there.  
6            Musculoskeletal diseases are coming up. So  
7            we'll have workshops in eight of these  
8            cross-sector areas. They will have heard the  
9            input from the different sectors and they can  
10           focus on what's the next step in this area to  
11           really make a difference in the workplace. So  
12           we're quite excited about the symposium. We  
13           hope that you can travel to D.C. at the end of  
14           April and participate. The website is there  
15           for that.

16           So in general, what kinds of information do we  
17           think is going to be very useful in this  
18           process? Well, as I mentioned we're most  
19           interested in hearing what your experience and  
20           what you know of as the issues; the top  
21           problems. It may be formulated in terms of  
22           diseases, or injuries, or exposures, or  
23           populations at risk, or failures of the  
24           occupational safety and health system, or you  
25           may have your own way of formulating what the

1 top problems are. But we're most interested in  
2 hearing about top problems. And then if you  
3 happen to be a person who's more familiar with  
4 where the research field is and so on we'd like  
5 your ideas on what kinds of research is going  
6 make a difference. If you're familiar with  
7 what's already known, where's the unknown  
8 information that we should be going after? And  
9 who are the partners? Who's going to help us  
10 plan the research, conduct the research, and  
11 make sure the results are obtained and  
12 presented in a form that they can actually be  
13 useful in the workplace? So those are the  
14 kinds of information in general that we'd be  
15 interested in hearing about. And yet, the  
16 reason we're going through all of this  
17 introductory material is so that you know where  
18 we're trying to go with this. Tell us what you  
19 think we need to hear. That's the bottom line.  
20 So my last slide, my take-home messages is if  
21 you haven't already signed up then NIOSH has  
22 something called the eNews. Most of us have an  
23 e-mail account these days and if you go to this  
24 website you just type in your e-mail address  
25 and you receive once a month a newsletter in

1           your inbox from NIOSH. It's a Sesame Street  
2           generation newsletter. It's short stories; 100  
3           to 200 words on a number of different topics.  
4           It will help you keep up with what's going on  
5           at NIOSH, but specifically if you just look at  
6           the section of that that has to do with NORA,  
7           you can keep track of what's happening at NORA.  
8           We have something about what's going on at NORA  
9           every month in that. And if you get tired of  
10          having one more thing in your mailbox then you  
11          can always unsubscribe. So provide additional  
12          input.

13          We appreciate you being here today. It's  
14          wonderful to have the room full and the tables  
15          full. But if you have additional thoughts,  
16          come back as an individual and provide your  
17          input through the NORA website. You can learn  
18          a little bit more about NORA there and as time  
19          goes on you'll be able to track in some detail  
20          what's happening with research councils there.  
21          But for now the main action on that page is the  
22          opportunity for you to provide input and to  
23          view the comments of others who have provided  
24          input. And my role in NIOSH is NORA  
25          coordinator. This is the NORA coordinator

1 mailbox. There are cards on the front table.  
2 You can send me e-mail directly. If you have  
3 any questions, issues, input please feel free  
4 to contact me directly about anything related  
5 to NORA. So I thank you and I think Kurt's  
6 going to give us the details of what we're  
7 doing at the tables today.

8 **DR. HEGMANN:** Thanks, Sid. I will take two  
9 minutes and we will get going and describe  
10 exactly what we're going to do. The next  
11 section is a very important part. This is the  
12 roundtables. This is where we're going to mix  
13 it up a little bit here. This is  
14 brainstorming, okay? At least for the first  
15 hour do not criticize each other. This is time  
16 for letting small comments come out, big ones,  
17 puffy ideas, anything goes. That's how we  
18 ultimately can get a useful agenda. Later on  
19 this morning towards the end, say 11:30 or so,  
20 then you can start grappling with things like  
21 prioritization. What are the top ten items  
22 that your group is coming up with? You can see  
23 why I'm getting kind of excited about this and  
24 why we've got you here. It's time to really  
25 actually put the rubber on the pavement.

1           During this roundtable session we're going to  
2           have our students, staff, typing all of these  
3           comments up. So we'll actually produce over  
4           the lunch hour a document with everything from  
5           all of these other roundtables all split out.  
6           That way you can actually take a look at it in  
7           the afternoon. I can't promise at 1:00  
8           o'clock, but 1:30 or something like. So you  
9           can look at other sectors that you didn't  
10          participate in. And in the afternoon -- by the  
11          way, this is lunch that's provided and it's  
12          free. So we would like for you to hang around.  
13          In the afternoon for each group we need one  
14          person to be identified and actually present  
15          for maybe about ten minutes or so what you  
16          talked about and what the prioritizations you  
17          thought were. Then we're going to have five  
18          minutes for others to chime in with other  
19          ideas. That's an opportunity to vocalize what  
20          you think could be another topic that was not  
21          covered. We're also going to provide a piece  
22          of paper in case there's any other things that  
23          you see that you want to have entered into it  
24          and don't want to necessarily to go to the  
25          docket. What we're going to do now is you're

1 all kind of signed up for roundtables. What  
2 you need to do is grab a flipchart in the back  
3 and bring it up to your table. Each group will  
4 need to get a facilitator and maybe somebody  
5 who will write. If there is too many in one  
6 group, it's okay to have either one large table  
7 or if you want to split up into two tables,  
8 that's okay too. We will go with the flow.  
9 That's about it. Any questions on the process  
10 here? We'll have a sheet with instructions on  
11 the tables too. We'll let you know when lunch  
12 is ready and if you want to keep going through  
13 lunch, that's okay too. Thank you.

14 **REGIONAL AND LOCAL STAKEHOLDER PRESENTATIONS**

15 **MODERATOR: DON BLOSWICK, UNIVERSITY OF UTAH**

16 **DR. BLOSWICK:** Thank you very much for your  
17 participation this morning. Well, the way  
18 we're going to do this is that I had initially  
19 setup an order of presentation, but I think the  
20 simplest way to do it would be to go in the  
21 order that has been presented in the handout  
22 that we're supposed to have now. In a minute  
23 when we have time, I will go and mark those  
24 numbers on that sheet up there just so we'll  
25 know. Basically, we're going to follow through

1           the same order in the sheet that I have. We  
2           have small business, initially, and then  
3           transportation, utilities and warehousing is  
4           second. So we'll go in that order and what  
5           we'd like to do is to have the assigned  
6           volunteer for each group to come up and  
7           present. My understanding is that the AV  
8           system requires that person to present either  
9           at the podium or at this mic up here, or the  
10          mic that Kurt is holding up, the cordless mic.  
11          You can't do it from the back of the room,  
12          unfortunately, because of some AV issues. So  
13          we're going to ask that person to come up and  
14          that person will have ten minutes to present.  
15          We'll try to let them know at five minutes and  
16          two minutes how they stand with respect to  
17          time. At the end of ten minutes Kurt has a big  
18          hook that he will use to pull them off the  
19          stage, if needed. Yes?

20          **DR. SODERHOLM:** We would actually prefer people  
21          to use the two microphones up here because our  
22          transcriptionist had to put his own microphones  
23          in. He couldn't hook into the overall system.  
24          So it's only these two places that he can  
25          really pick up.



1           **DR. BLOSWICK:** So just to be consistent, let's  
2 ask that person to come up and present from  
3 this stage right here. So for those of you who  
4 thought your ten minutes going to be from the  
5 back of the room, you've lost out. You're  
6 going to have to be up in front of the entire  
7 group for that ten minutes.

8           So with that, let's go ahead and we have about  
9 15 minutes for each group. Approximately ten  
10 minutes of presentation by the assigned group  
11 presenter and then five minutes of additional  
12 discussion by the group. I'll try to keep us  
13 on track as much as possible within that 15  
14 minutes. So our first presenter will be from  
15 small business. What we'd like you to do is  
16 when you come to the front of the room, if you  
17 have no reason not to do so, please state your  
18 name for the record. I understand that if  
19 someone simply doesn't want to state their  
20 name, it's okay.

21           **DR. HEGMANN:** Small business is eating right  
22 now.

23           **DR. BLOSWICK:** So there goes my plan already.  
24 Transportation, utilities, and warehousing,  
25 would that person please come up? And then

1           assuming that small business is finished eating  
2           in 15 minutes, we'll get back to that order.

3           **MR. WOOD:** I'm Eric Wood. I'm at the Rocky  
4           Mountain Center for Occupational and  
5           Environmental Health right here up the street.  
6           Our group had transportation, utilities, and  
7           warehousing. It was a relatively small group,  
8           but I think it had excellent representation.  
9           We had a gentleman from one of the local  
10          utility companies. Also, we had a gentleman  
11          representing the warehouse industry, and a  
12          woman that was in charge of a wellness program  
13          for a local transportation bus company.  
14          The top priority on our list turned out to be  
15          shift work. Particularly the areas of health  
16          concern with fatigue and injury rates that  
17          occur with shift-work employees. Some of the  
18          rationalization and justification that we  
19          talked about with respect to that included the  
20          changing shifting work patterns. The lifestyle  
21          effects that that had both on the development  
22          of the injuries and health effects with that  
23          socialization patterns, and also how that  
24          affected people's dietary exercise lifestyle  
25          habits as well. We also briefly talked about

1           what kind of solutions there is to that in  
2           terms of addressing how can we change the  
3           patterns most appropriately to either circadian  
4           rhythms or other such things, or medications  
5           that might be in the forefront of solutions as  
6           well.

7           One of the other high-priority areas are health  
8           and wellness programs that are being developed.  
9           We talked about how those can influence injury  
10          rates in terms of whether the health and  
11          wellness programs that are established already  
12          are really necessary to help reduce those types  
13          of injury rates, as well as its impact upon  
14          absenteeism and presenteeism (\*). We also  
15          talked about how medical conditions might  
16          interact with the health and wellness programs  
17          in preventing those issues as well. I guess we  
18          also discussed fitness concerns with improving  
19          the health of workers in the diet and exercise  
20          programs.

21          We discussed the changing nature of work over  
22          the past century in terms of hard labor being  
23          replaced with more sedentary-type activities  
24          and what things need to be done to influence  
25          the health and wellness of the workers. I

1 think one of the higher priority areas that we  
2 looked at was ergonomic concerns, particularly  
3 with respect to musculoskeletal disorders in  
4 the warehousing industry. One of the things  
5 that was brought out was often times in the  
6 warehousing industry is they have prepackaged  
7 materials that comes in that they have to deal  
8 with and what kind of controls they have over  
9 dealing with oversized and overweight objects  
10 to move around, and what kind of ergonomic  
11 programs can come into play to help assist with  
12 that. We talked about some of the  
13 musculoskeletal safety ergonomic issues within  
14 the transportation industry as well. And how  
15 there seems to be a lot of obesity amongst the  
16 driving population. One comment was made that  
17 was having the wheels such that they were able  
18 to be operated in a safe fashion with the girth  
19 of the drivers. Some of that also comes into  
20 play in terms of engineering of the safe  
21 driving cabs.

22 I guess another thing that was discussed was  
23 the psychological components of developing  
24 ergonomic workstations and how to get people to  
25 use those stations appropriately. Another area

1 we looked at was training and how do we go  
2 about training all of our employees. The  
3 culture of safety and the empowerment of  
4 individuals concerning what programs work and  
5 what programs don't work and how to pay  
6 attention to both language and cultural issues,  
7 as well as literacy itself. Another area that  
8 came up was what kind of screening limits are  
9 there to predict risk factors within workers,  
10 and what can safety personnel and physicians  
11 use to hopefully help predict who's going to be  
12 at higher risk for injury and disease. Also,  
13 when is it safe to return them to work and  
14 fitness-for-duty issues as well. So that was  
15 our top five.

16 We had four additional ones. Some of the  
17 things that came up were environmental factors,  
18 particularly for the utility workers outside,  
19 and high-stress factors come in during the  
20 weather. In our part of the country we have a  
21 lot of issues with snow, ice, rain in making it  
22 difficult and hazardous for the employees. As  
23 well as the issues of what happens in the  
24 particularly cold storage in the warehousing  
25 industry where some of these workers are

1           working in routinely full shifts in minus 29  
2           degrees Fahrenheit temperatures coming in and  
3           going out as well. We also talked about the  
4           heat issues as well for the summer time work.  
5           Another thing that was brought up was the  
6           environmental factors coming to the forefront  
7           on insect-borne diseases, particularly we're  
8           thinking of the West Nile virus and what other  
9           emerging diseases might develop in the future  
10          and what kind of preventative measures might be  
11          considered for attacking that.  
12          Another area we talked about is the aging  
13          workforce. We talked about the high-risk  
14          co-morbidities amongst the elderly or aging  
15          population, as well as the safety risks for the  
16          teen workers, the young workers, the new  
17          workers.  
18          I guess the final thing we talked about  
19          independently are commercial drivers. A number  
20          of issues that came up in terms of the  
21          commercial drivers included the musculoskeletal  
22          disorders, issues of fatigue, sleep apnea,  
23          shift work, and other contributing factors for  
24          fatigue. We discussed a little bit that the  
25          issues with whole-body vibrations, particularly

1 with respect to low-back disorders and carpal  
2 tunnel syndrome in the drivers. We talked  
3 about the use of drugs, both prescription and  
4 over-the-counter drug usage and how that  
5 affects safety issues within the driving  
6 population. Again, we discussed aging in this  
7 population, as well as wellness programs and  
8 the particular demands of establishing a  
9 wellness program for not only local drivers,  
10 but for long-haul drivers. I think that sums  
11 up most of our priority areas that we looked  
12 at.

13 **DR. BLOSWICK:** Great. That leaves us with a  
14 couple of extra minutes if we have any comments  
15 from the group. We have a comment and I think  
16 Kurt is going to try the handheld and we can  
17 see if it's going to work.

18 **MR. LAHR:** I like the ideas that you're talking  
19 about, especially with the fatigue in relation  
20 to driving and transportation. I think a lot  
21 of work has been in done in that, and I just  
22 want to make sure -- I'd like to see it get  
23 spread out into other areas and other  
24 industries as well.

25 **DR. BLOSWICK:** Those issues to be considered in

1 other sectors; is that what you're saying?

2 **MR. LAHR:** Exactly.

3 **DR. BLOSWICK:** Great. Let's make a note of  
4 that. It's a great comment. We also would  
5 like the people from the group to speak their  
6 name if you have a comment from the floor. It  
7 may be your only chance to get in the federal  
8 registry. Good or bad. We would ask the last  
9 person to state his name if he doesn't mind.

10 **MR. LAHR:** My name is Greg Lahr.

11 **DR. BLOSWICK:** Great. Thank you, Greg.  
12 Are there any other comments? We have one here  
13 and since you're close, would you just come on  
14 up and grab the mic?

15 **MR. GRIPPA:** I guess one thing that I didn't  
16 see up there and talked about was the exposures  
17 to chemical hazards and the training that goes  
18 along with them carrying things that they might  
19 have to -- if there was an accident or  
20 something like that exactly how that would  
21 affect them.

22 **DR. BLOSWICK:** Okay. Is small business ready?  
23 Please be sure to state your name.

24 **MR. THISE:** My name is Matt Thise and I was  
25 actually the scribe for the group for small



1 business. There was only one individual who  
2 came to talk about that. So I will speak for  
3 him because he had to take off early. He also  
4 wanted me to say that one of the big issues  
5 that we discussed was affordability in small  
6 businesses for any types of interventions. He  
7 mentioned that he's out with a lot of small  
8 businesses that have very limited resources and  
9 they cannot afford to implement any or very  
10 many programs, if they can afford to implement  
11 any at all.

12 He's worked with the EPA and they have  
13 standards that influence occupational health  
14 and safety factors. So he would like to see  
15 some more coordination between research that  
16 addresses both occupational and environmental  
17 research and concerns in the small business.  
18 We also talked about the need for simple canned  
19 programs that small businesses can use,  
20 particularly programs in ergonomic safety, also  
21 psychosocial issues, and work organizational  
22 factors; so simple programs that can be easily  
23 accessed and easily implemented in small  
24 businesses. And the need for those canned  
25 programs to be researched, constructed, and

1           evaluated, and then disseminated out to  
2           everybody. They also need to be easily  
3           implemented.

4           We also talked about health promotion in small  
5           business and how important that is, and if  
6           there are differences between issues that small  
7           businesses face versus large businesses. If  
8           there are differences what those differences  
9           are and then why are there those differences.  
10          Is it a lack of knowledge? Is it a lack of  
11          ability to implement controls?

12          Also, access to employees of small businesses  
13          for research purposes. A lot of time there's  
14          fear of political issues surrounding research  
15          in small businesses. So people are reluctant  
16          to provide information or small businesses are  
17          reluctant to participate in research for fear  
18          of being singled out or having some type of  
19          regulations put on them. He also brought up  
20          the question of why do small businesses stay  
21          small. Is it an issue of economics or are  
22          there work factors where the employees were in  
23          large businesses and then failed drug tests, or  
24          psychological issues, or something where they  
25          were then forced into these smaller business

1 jobs where they don't have quite as stringent  
2 of testing?

3 We also discussed potential areas of small  
4 businesses to make significant improvements in  
5 occupational health. These are areas that he  
6 deemed as being potentially at higher risks for  
7 different things than other groups. Those  
8 would auto-body refinishers, decorative chrome  
9 shops, plastic-reinforced concrete  
10 manufacturers, restaurants, and then the home  
11 healthcare industry.

12 We also brought up a question of why are there  
13 so many turnovers in small businesses. Are  
14 they due to health implications or health  
15 issues? And that's both individuals within  
16 companies or industries, but also the number of  
17 companies within an industry. There's seems to  
18 be a lot of turnover there. Then we also  
19 talked about substance abuse within small  
20 businesses and the research that needs to be  
21 done there.

22 **DR. BLOSWICK:** Kurt?

23 **DR. HEGMANN:** One point of clarification.

24 There was a very clever idea, which is that we  
25 need to make sure it's captured. The issue of

1           controlling environmental exposures in these  
2           small businesses, which is actually done by the  
3           EPA. So there's opportunity there for synergy  
4           between grant agencies getting money together  
5           to actually implement an agenda in small  
6           business.

7           **DR. BLOSWICK:** That comment was by Kurt  
8           Hegmann. I take this job very seriously. One  
9           thing that I'd like to mention is there are  
10          some online resources that are free. The Rocky  
11          Mountain Center at one time had some ergonomics  
12          training, plus the OSHA webpage has some very,  
13          very good ergonomics resources that's all free.  
14          There's another company that has some online  
15          short courses that if you're interested I will  
16          give the name off the record for that company.

17          **MS. MCNEIL:** I don't want to lose this  
18          opportunity. I'm Kate McNeil and I'm a  
19          consultant with OSHA Consultation and our  
20          target is small employers. We are largely  
21          federally funded. We consider small employers  
22          250 employees or less. I had one company that  
23          was issued a temporary license to do business  
24          and based on them proving to the city that  
25          their emissions were not affecting the

1 environment adversely. They went to hire an  
2 industrial hygienist, but they couldn't afford  
3 it so they called me and I said I don't deal  
4 with anything once it goes through the stack.  
5 We went in free of charge and stayed there for  
6 a ten-hour workday and we sent in all the lab  
7 samples at no charge to the employer. They  
8 were able to prove that in the workplace there  
9 were not overexposures. So they took that  
10 information to the city and said our employees  
11 right here in the building aren't adversely  
12 affected. They were granted a permanent  
13 license to do business. So they were able to  
14 satisfy the EPA through our program free. So I  
15 really want to promote the consultation service  
16 as a good resource.

17 **MR. BESSER:** My name is Brett Besser. I'm with  
18 the Department of Labor. I just wanted to get  
19 on the record that I think that warehousing and  
20 transportation is probably one of the most  
21 critical ones that NIOSH can look at because it  
22 affects both upstream and downstream.  
23 Warehouseurs (\*) are the customers or the  
24 producers and in that function have a lot of  
25 sway in what they get from the producers. And

1           if they get an ergonomically desirable product  
2           into the warehouse then that will help the  
3           customer at the other end.

4           **DR. BLOSWICK:** Thanks, Brett. Also, remember  
5           we're still talking small business. So if  
6           there are any comments based on the comment  
7           right before Brett's, I'd like to encourage  
8           those people to speak.

9           **MR. PUGH:** I'm Charles Pugh with the Worker's  
10          Compensation Fund. We actually had some small  
11          business owners in our group and the concept  
12          came up that they really didn't have awareness  
13          of some of the things that they needed to do in  
14          the workplace. What workers' compensation  
15          insurance is; what's OSHA. So again,  
16          emphasizing the small customer I think is very  
17          important.

18          **DR. BLOSWICK:** Thank you. Are there any other  
19          comments on small business or transportation  
20          and warehousing? If not, let's move ahead to  
21          the next group, which will be training.

22          **MR. ROMNEY:** I'm Eldon Romney with R and R  
23          Environmental. I won the lottery. We talked  
24          about a whole bunch of different things. If  
25          you'll notice in the written narrative I think

1 we have 30 percent more narrative than any of  
2 you other groups. There's plenty of stuff  
3 there to look over. When we prioritized we  
4 came up with four different areas. I'll touch  
5 on five really quickly.

6 The number one area was how can we evaluate the  
7 training effectiveness and ensure that our  
8 evaluation is accurate? So basically  
9 evaluating the evaluation. Some of the topics  
10 we discussed were -- it depends on your  
11 audience. One of the things that came up with  
12 were some people have had experience with  
13 Spanish workers who have a supervisor that's  
14 Spanish, but there was a rule that everybody  
15 spoke English. If some of the workers were  
16 caught speaking English to some of the  
17 higher-ups, the upper management, the  
18 Spanish-speaking supervisor of the workers  
19 would fire them. And so there was a real  
20 reluctance to communicate anything upstream,  
21 other than through a supervisor who was very  
22 controlling. So if the owner of the company  
23 went down and talked to these people about how  
24 things were going, he was going to get squat  
25 out of them.

1            Obviously, support was a big issue; corporate  
2            support up and down the line. We discussed if  
3            it's better to start with ownership and  
4            management and everything comes down from there  
5            or if you start with the workers and come up.  
6            That became another topic that we'll talk about  
7            here in a minute. Open communication in a  
8            non-penalized reporting method were also  
9            discussed. One of the other topics was what  
10           would be the effectiveness of upper management  
11           training or owner training? In some areas we  
12           do a really good job of training the workers,  
13           but when you tell the workers what their  
14           restrictions are and then they tell management,  
15           sometimes management balks or ownership balks  
16           because the worker has bad news. He says we  
17           can't do it that way, the rules don't allow it.  
18           Sometimes ownership and upper management don't  
19           appreciate the restrictions that the workers  
20           have been taught about. Again, support up and  
21           down the line would aid that. You have to have  
22           a culture of safety and open communication.  
23           It was talked about with NIOSH and with their  
24           credibility could they recommend ownership and  
25           management training and would that be bought



1 off by the owner or management more easily than  
2 some other agency or just an individual  
3 recommending that. One of the things that we  
4 discussed with some of the NIOSH people is that  
5 this is a little unique from other town hall  
6 meetings that they've had. Could NIOSH have a  
7 website access to public domain research that's  
8 out there? Could they have a database where  
9 they list by topic all of the different public  
10 domain research that's been done? For example,  
11 if NIOSH worked with a specific company to  
12 research something, sometimes that research is  
13 published in some obscure journal or some  
14 non-obscure journal, but a lot of people don't  
15 have access to it. If there was a list by  
16 topic of these different research data and then  
17 next to it, maybe, a link for different formats  
18 such as if it was just a narrative or if it was  
19 put into computer-based format, like PowerPoint  
20 for example, at least you could go through by  
21 topic and research things in one place to try  
22 to get some idea of what research had been done  
23 out there.

24 We talked about behavior-based training;  
25 evaluating where it's been effective and where

1           it might not have been. Health behavior  
2           therapy, kind of a disconnect in some people  
3           from what they know and what they do; immediate  
4           versus long terms results. In other words, you  
5           can test them after you get done and they all  
6           know it, but the next day, the next week, the  
7           next month they just don't do what they've been  
8           trained to do. Then the multi-cultural  
9           differences in how people react. Again, that  
10          relates back to that Spanish supervisor who was  
11          so controlling.

12          One of the things that came out that I thought  
13          was especially interesting was one of the  
14          people in our group had an issue with trying to  
15          train short-term workers, heavy equipment  
16          operators in specific. There's really no way  
17          to train them effectively. They're in a cab  
18          that's made for one person. How does a trainer  
19          help them get to know that piece of equipment?  
20          He said that in one case the trainer would sit  
21          on the engine box, put his feet inside the cab,  
22          and tell the guy what to do as a means of  
23          training. That box is only made for one  
24          person. There's only one seatbelt in there.  
25          There's some sort of an issue. Could the cab

1           be expanded and there's some structural issues  
2           involved. The amount of training that you can  
3           give that person is pretty limited. If you  
4           give them a couple of weeks of training  
5           sometimes they think they know it all now  
6           because they've gone through the training. And  
7           some of the problems become you can't train on  
8           everything. If you train them on level ground  
9           and they get on an incline and things change.  
10          Other areas that we talked about are what  
11          tools, methods, and resources work best for  
12          training? What are the best practices? How to  
13          assess what companies of different sizes are  
14          currently doing and what works, practical  
15          applications of current regulations, and how to  
16          assess the effectiveness of OSHA consultation.  
17          Again, there's a whole lot of detail in our  
18          narrative and I would refer you there.

19          **DR. BLOSWICK:** Great. Thank you. Do we have  
20          any additional comments in the area of  
21          training? One thing that I would mention  
22          wondering around during the 10:00 to 12:00  
23          session this morning is I did hear  
24          behavior-based safety mentioned at both the  
25          training and in the mining group. Here we have

1 a comment. Please, state your name.

2 **MS. ANDERSON:** I'm Dionna Anderson, Salt Lake  
3 Community College, and I was in the group of  
4 manufacturing. How do you train and are we  
5 willing to change our training methods to meet  
6 the new learning styles of the younger  
7 students? You know, pod casting and I'm not  
8 sure what all is going to be done to fight  
9 wake. Then trying it together to how do we  
10 train the 16 year old and 65 year old who use  
11 the other methods and are in the same  
12 classroom.

13 **DR. BLOSWICK:** Those are good comments. I have  
14 no answer. Maybe someone in the group does.  
15 With that, we're ahead of schedule and let's  
16 move ahead then to our next group, which is  
17 manufacturing. Would the manufacturing  
18 representative please come up?

19 **MR. COLLINWOOD:** Thanks, Don. My name is Scott  
20 Collinwood. I'm also with the Rocky Mountain  
21 Center just up the street here at the  
22 University of Utah. I just sent off my taxes,  
23 by the way. So if you want to record that, my  
24 accountant should be getting that stuff ready  
25 here shortly. Also, with that, I was the

1           facilitator for the manufacturing group. We  
2           have pretty large and diverse group. We took  
3           up a couple of tables back there. I'd like to  
4           give you just a real brief background of some  
5           of the manufacturing industries that were  
6           represented there. We had a representative  
7           from Utah OSHA. We also had computer and  
8           semiconductor manufacturing that was  
9           represented. Biotechnology and automotive  
10          supplies, specifically airbag manufacturing,  
11          clothing manufacturing, distribution warehouse  
12          was also represented there, printing, and meat  
13          processing; just to name a handful of them.  
14          We went through a number of topics and I'll  
15          start with what emerged as the first topic that  
16          was brought up in our group, which was  
17          accommodating the needs of the aging workforce.  
18          Specifically, associated with that we talked  
19          about was musculoskeletal disorders, strains  
20          and pains. Our manufacturers seem to describe  
21          that with the aging workforce that number is  
22          creeping up in their working population, but  
23          still a disproportionately small number of  
24          people seem to have a proportionally higher  
25          amount of the workman's compensation cost and

1           such associated with them. Along those same  
2           lines, the American Disabilities Act and  
3           dealing with that. Also, something that often  
4           times comes with the aging workforce is  
5           obesity, diabetes, hearing and eye site  
6           changes. How do we make those accommodations  
7           in the workplace? Trip and fall hazards. They  
8           might not be as astute as their younger  
9           coworker. Controlling these workplace hazards.  
10          Also, to mimic what the training committee  
11          talked about with how do we effectively train  
12          and educate this aging population -- one of our  
13          members commented that we have fairly effective  
14          or reasonably effective communication and  
15          training methods with regards to health and  
16          safety for this aging workforce. One flipside  
17          of that, again, these 18 to 20-somethings that  
18          want things in short, fast bursts. How do we  
19          meet the needs of all of that population? To  
20          summarize that, accommodating the needs of the  
21          aging workforce emerged as our number one  
22          topic.

23          Not too far off from that was a combination of  
24          wellness and workman's compensation cost.  
25          Along those lines is how do we change the

1           mindset for our workers to look at having a  
2           safe work life and culture. You know, taking  
3           not just the things that we try and drive home  
4           at the workplace, but in that drive home are  
5           they talking on a cell phone and things like  
6           that while they're driving. Are they  
7           maintaining a good lifestyle at home and  
8           setting a good example for their families?  
9           Because what many of these manufacturing  
10          representatives were saying is the cost of an  
11          unhealthy lifestyle or not an acceptance to a  
12          wellness practice outside of work, the company  
13          often times bore those costs anyway. So that  
14          was something that certainly needed to be  
15          addressed.

16          Obviously, we've got these insurance costs,  
17          these lost-time costs, these lifestyle issues.  
18          HIPAA was brought up and there was a discussion  
19          that in some instances that was reflected as  
20          being beneficial. On the flipside, a couple of  
21          our representatives said that it was almost a  
22          barrier to being able to accommodate somebody  
23          that has a health condition in the workplace  
24          because their supervisors or management weren't  
25          learning about it and therefore weren't able to

1 administer it. For example, if somebody is on  
2 some type of medication that may cause them to  
3 faint or something. We're now getting a  
4 society where this is personal information and  
5 we don't share it, but it has a direct effect  
6 at work and it may impact their health, it may  
7 impact the health of the workers around them.  
8 Just to round out the things that we discussed  
9 on workman's comp is that employees are hiding  
10 their current health status and the employers  
11 ending up inheriting these things and therefore  
12 these costs in terms of workman's comp, as well  
13 as just regular health insurance, if the  
14 company offers that.

15 To move on down the list, those were our number  
16 one and number two. Then in not necessarily  
17 any particular order, but one that was quite a  
18 ways up there was we had occupational health  
19 and safety management systems and this  
20 competitiveness. We kind of lumped this all  
21 together. Along those lines were a couple of  
22 representatives brought up that they are  
23 adhering to these ISO 14 or 18,000 Standards;  
24 these environment or health and safety  
25 standards. That's been forced upon them by the



1 market that they choose to participate in;  
2 essentially this global environment, this  
3 global economy that they want to be involved  
4 in. One the flipside, it was noted that AIAH  
5 and ANSI recently came out with a health and  
6 safety program management system. It's a set  
7 of guidelines along those same types of lines.  
8 Having a broad health and safety management  
9 system in place at the workplace. But what was  
10 brought up is there seems to be a real lack of  
11 skill or education and training on the part of  
12 the health and safety managers. The individual  
13 or somebody in that health and safety  
14 department, if there's multiple individuals  
15 there, in enacting this type of thing. And  
16 then to add to that, if they want to try and  
17 implement one of these types of programs they  
18 don't seemed to be armed with the metrics, the  
19 measurements that says if we do this type of a  
20 program this is how it will affect the bottom  
21 line of the company. You know, they need to  
22 demonstrate that to senior managers and it's  
23 not well known if that information is readily  
24 available and readily accessible to them. If  
25 that health and safety person is skilled and

1           astute enough to notice that and to recognize  
2           that they need to drive this as a value-added  
3           benefit to the company. So there just seems to  
4           be a disparity with it and it looks like this  
5           is useful, there's a lot of talk about this,  
6           but how do we get there and are we going to get  
7           the end results to that.

8           Along with that competitiveness theme and this  
9           health and safety management theme, you know, a  
10          lot of the buzz words in manufacturing the last  
11          couple of decades has been this JIT, this  
12          just-in-time manufacturing, or lean  
13          manufacturing. We only warehouse just enough  
14          that we need to produce that day. Otherwise,  
15          our transportation folks that already were up  
16          here today are bringing that to our dock doors.  
17          So we're running these things in and out of  
18          there. But along those lines they talked about  
19          the inventory of the employees and that that  
20          has been decreasing based on the productivity.  
21          If Jane gets sick or ill some day, that really  
22          impacts the production. And we might have  
23          cross-training, but they can't afford to bring  
24          John from this other department over here.  
25          Obviously, we didn't throw forth any solutions

1 to that type of idea, but it was just that's  
2 the reality of it. All of these things are  
3 tied. If we can increase the wellbeing of our  
4 workforce, the health and safety of our  
5 workforce, they're not getting ill, they're not  
6 inclined to not come into work because they're  
7 tired or stressed or hurt, there's a benefit  
8 there.

9 Additional topics that we talked about were old  
10 machinery or continuing to use old or outdated  
11 machinery, or using a machine to do a job that  
12 it wasn't intended for. And how do they deal  
13 with what the requirements are there for  
14 machine guarding, and ergonomics, and safety  
15 injury upgrades. We spent a lot of time  
16 talking about education, training, and  
17 communication. I'll revisit this again  
18 briefly. How do we educate or train this broad  
19 spectrum of workers? We've talked about the  
20 elderly worker versus the young worker.  
21 There's also the diversity issue and the  
22 language issue. Along with that goes the  
23 culture and cultural differences that our  
24 workforce brings to the jobsite.

25 One of the other issues that was brought up was

1           some of the health safety practitioners, those  
2           coming out of bachelor's or even graduate  
3           health and safety programs, might be missing  
4           some of the basic skill set that they need.  
5           You know, can they properly interpret MSD or  
6           regulatory standards for the industry that  
7           they're working in. You know, some of our  
8           members said that I don't know if it's for  
9           somebody coming out of a broad program that  
10          they be able to interpret the specific  
11          standards associated with our industry, but  
12          certainly they should have the basic knowledge  
13          and the basic skill set and the basic tools to  
14          be able to quickly come up to speed in that.  
15          That will take care of that sort of  
16          personalized training specific to that  
17          industry.  
18          You know, I think with that I will probably  
19          hold. We filled up six or seven pages back  
20          there and spent a lot of time discussing  
21          things, but the big two take-home points were  
22          certainly accommodating the aging workforce and  
23          then the second was these spiraling healthcare  
24          costs. How do we get a handle on that? How do  
25          we intervene and get those things in control?

1           **DR. BLOSWICK:** Good. Thank you, Scott. I  
2 think we already have a comment.

3           **MS. PARADISE:** I'm Michelle Paradise. I wasn't  
4 able to attend that section, but I have  
5 concerns with the rising industry of the new  
6 pharmaceuticals and vitamin supplements where  
7 there are no regulations and workers are  
8 exposed to high concentrations. What may be  
9 the hazards and risks with these exposures, the  
10 plants that they're working with and also,  
11 secondarily, the pesticides, which also may be  
12 present.

13          **DR. BLOSWICK:** Good. One other point that I  
14 did notice in both Scott's discussion and at  
15 least two or three other groups was the aging  
16 workforce, which is interesting.

17          **MR. COLLINWOOD:** Since this is on record, I  
18 want to add one thing that now I'm looking at  
19 my three pages of notes that I glossed over.  
20 One of the topics we also discussed is emerging  
21 technologies, but this probably isn't new to  
22 some of the people in the room, but  
23 specifically nanotechnology. Where these  
24 manufacturers are wondering how they measure,  
25 what they have to measure, what the results of

1           this are. I know that nanotechnology in  
2           general is a big buzzword and with that  
3           emerging technology was also biotechnologies.  
4           So we kind of lumped that all together, but  
5           that was a concern of ours also.

6           **DR. BLOSWICK:** Good. Do we have any other  
7           comments? Okay. Our next session is  
8           agriculture, forestry, and fishing. Go ahead.

9           **MR. FERGUSON:** My name is A.J. Ferguson. I'm  
10          with Utah Farm Bureau Federation. Our concerns  
11          started off being as the farmers work long  
12          hours and often times they work by themselves  
13          alone, which brings up different types of risks  
14          in the fact that cell phones have made it more  
15          convenient that if they are in an emergency  
16          they can typically get the help they need, but  
17          that's not always still the case. Cell service  
18          doesn't reach to all of the areas where they  
19          would be.

20          That brought up our second concern being  
21          emergency response. The fact that a lot of the  
22          farms are located far away from any EMS and  
23          that does pose some threats or hazards to the  
24          farmers in the response time. The golden hour  
25          is critical.

1           Going down through here, we also talked about  
2           animal handling and the fact that there are  
3           tons of stipulations and regulations in regards  
4           to handling animals, but that sometimes farmers  
5           feel that they can do it their way better. We  
6           know the animals more or we just try to push  
7           them through instead of taking our time to get  
8           them into a good clearance zone so that way we  
9           can avoid injuries occurring from  
10          animal-related incidents.

11          Also, the off-highway vehicles, which are an  
12          upcoming trend. We're seeing farmers now going  
13          from using horses more and more to ATVs and  
14          motorcycles; forcing an increase in injuries in  
15          that sector and also with tractors. Some of  
16          the other concerns are if we could engineer out  
17          some of these problems with power-takeoff  
18          shafts. We lost a farmer last year in our  
19          state in Smithville, Utah to a PTO shaft. And  
20          how to keep instructing the farmers to keep the  
21          shields in place and not to remove safety  
22          guards. Those are some other concerns that we  
23          have.

24          Also, another concern was the handling of  
25          storage materials that we do have on farms;

1 ammonium nitrate, hydrous ammonia, other  
2 pesticides, fertilizers, nutrients that we do  
3 use. Most farms are self-sufficient and do  
4 store a lot of those; even iodine, where they  
5 are starting to use that now to make crystal  
6 meth and different things like that. We're  
7 starting to see an encroachment of the bad  
8 element towards rural Utah.

9 Some of the questions that we actually had was  
10 chronic health effects of OTDS, the organic  
11 toxic dust syndromes. What's really happening  
12 to our farmers? We don't have very good data  
13 on this. We don't know always where to go on  
14 it and how to attribute it to a farm-related  
15 incident; if it's because they grew up on a  
16 farm, or if it's because of the environment  
17 that they live. Being able to understand if  
18 it's because of mold spores in the air. It  
19 might be dust from plowing with an open-cab  
20 tractor. We do have some questions about that  
21 on how we might be able to get more data there.  
22 And then another concern on large farms versus  
23 small farms. Are they the same? Is one  
24 procedure going work for both sides? Is the  
25 ma-and-pa farm going to be able comply with



1           what the large farm can do or vice versa, will  
2           they have the same problems. Then some of the  
3           other questions we did have were how else can  
4           we continue to increase the education for farm  
5           safety. How do we get more out there through  
6           communication? In the past, we tried a lot of  
7           different things and it doesn't always hit the  
8           papers until we have a major incident that  
9           involves someone who's been killed. That  
10          doesn't always get the best notoriety.  
11          Sometimes we portray the wrong image through  
12          our media of farming and agriculture being a  
13          utopia lifestyle and that nothing wrong can  
14          happen there. So those were some other  
15          concerns that we had.  
16          Ergonomics, we did have that on there. It was  
17          just through our production plants. We're  
18          looking at the poultry processing, beef  
19          processing, things like that where there's a  
20          lot of repetitive motion. It's also probably  
21          necessary for the rest of the work as well, but  
22          it's not viewed as macho, it's not cool, and so  
23          some of the farmers still tend to ignore this  
24          issue; and how we can bring that more to them  
25          and make it hit home.

1           Hearing conservation is also another one.  
2           Where a lot of the equipment that farmers use  
3           in our state and where most of the tractors are  
4           about 35 years of age and a lot of the tractors  
5           don't have cabs and do not have a lot of the  
6           proper protection to protect your ears. Those  
7           that do have cabs where sometimes they turn the  
8           radio up louder to overcome the sound of the  
9           machinery and the vibration. Also, that could  
10          lead to potential problems of hearing loss  
11          later on in their life. That was everything  
12          that we had.

13          **DR. BLOSWICK:** Good. Thank you. Do we have  
14          any additional comments on forestry, farming,  
15          fishing?

16          **MR. RICE:** My name is Nick Rice and I'm an  
17          industrial hygienist who previously practiced  
18          in wood products and forestry products  
19          industry. And I'm interested in re-evaluation  
20          of susceptible wood dust exposure limits in  
21          light of some of the information on wood dust  
22          and carcinogenicity.

23          **DR. BLOSWICK:** You're talking in lumber  
24          processing, for example?

25          **MR. RICE:** Specifically in lumber and wood

1 products manufacturing.

2 **DR. BLOSWICK:** Thank you. Good. Do we have  
3 any other comments in these areas? We do.

4 **MR. ALCOT:** My name is Dave Alcot from ATK. I  
5 think we need to look into the crossover from  
6 agriculture into manufacturing. I worked in  
7 two manufacturing facilities; both had a large  
8 amount of farmers working at both places.

9 **DR. BLOSWICK:** So are you suggesting that what  
10 people do off the job affects what might happen  
11 to them on the job?

12 **MR. ALCOT:** Absolutely. Especially the hearing  
13 conservation is the big one right now. If  
14 there's a lot of injuries that happen off the  
15 job that go over to the manufacturing job.  
16 Also, these people do not have any healthcare  
17 and can't get it through their manufacturing  
18 job.

19 **DR. BLOSWICK:** Thank you, Dave. If there are  
20 no other comments our next sector is  
21 construction. So would our construction  
22 representative please come on up?

23 **MR. THROCKMARTIN:** My name is Jeff  
24 Throckmartin. I'm senior IH for the industrial  
25 hygiene group at the University of Utah on the

1 staff side. As has been indicated, the group  
2 was construction. We had a variety of  
3 different size companies at our table. From  
4 small to medium size contractors that do a  
5 different type of construction, including work  
6 for DOD to small independent contracting.  
7 There were really five issues that were  
8 abstracted from the notes you have.  
9 Just to recap it first, specialized workforce  
10 issues, common sense issues, problems with  
11 trying to comply with super-sized regulations,  
12 accuracy of reporting, and how to deal with  
13 unethical operators and the problems they  
14 create in the industry. Let's look at these  
15 individually.  
16 The specialized workforce covers a variety of  
17 different sectors and different groups. Key  
18 among those are non-English speaking workers.  
19 This has come up before. There are tremendous  
20 issues that come from that. For example, what  
21 if you have INS come through and snatch up half  
22 of your workers? It creates a burden on the  
23 other half. And this has happened where you  
24 suddenly have to complete the contract, but you  
25 have an extra burden on the remaining ones

1           behind. What do you do about training? How do  
2           you address training? How do you disseminate  
3           information to the workers? What do you do  
4           about high turnover with that group? All of  
5           these impact the safety of the operation. How  
6           about other specialized groups? How about  
7           extremely young workers? In some cases you may  
8           have workers that are less than 18. For  
9           example, it was brought up about workers in  
10          polygamist communities. You may say that's not  
11          regulated. People still get hurt. What about  
12          people that work in schools with school  
13          projects who get hurt? Do we have statistics  
14          on these? Has NIOSH developed adequate  
15          statistics to know what's going on?  
16          I may have mentioned older workers. How about  
17          MSD in older workers, people who are over 50  
18          who are still doing construction. Do they need  
19          a separate set of standards?  
20          Common sense was brought up. Common sense  
21          isn't always common as you know. How do you  
22          implement a safety culture or safety-based  
23          culture? Training people doesn't always work.  
24          Sometimes it's the macho thing for the worker  
25          to not comply. That still causes injury and

1           harm. How do you get at that? How do you  
2           implement a safety culture across the board?  
3           Super-sized regulations. The regulations are  
4           so complex now and I don't need to tell you  
5           this. Complying with them is very difficult.  
6           How do small companies adequately comply? They  
7           are trying to bid competitively so they can't  
8           always hire a consultant. Sometimes the  
9           regulations can place an extra burden on the  
10          company in another way. For example, HAZWOPER  
11          work, thermal stress, heat stress. Do the  
12          regulations create extra hazards? Has this  
13          been examined? Should the regulations be  
14          scaled down for small companies or abstracts of  
15          them created? Something as simple as  
16          understanding material safety data sheets may  
17          not be simple for a small company.  
18          Accuracy of reporting. There is a lot of  
19          distrust in some of the DOL statistics that are  
20          gathered. How are they used? There's the lost  
21          work time that we all are familiar with. How  
22          can the statistics best be gathered and  
23          utilized?  
24          Finally, what was termed unethical operators.  
25          Contracting is a very competitive business.

1           Somebody is always going to underbid you for a  
2           nickel, and in our society you generally take  
3           the lowest bid. So how do you deal with  
4           someone that's going to just always stay one  
5           step ahead of the regulators and try to have a  
6           cheaper bid because they're not complying and  
7           people are getting hurt? You may say tougher  
8           enforcement. That's not necessarily the  
9           answer. These are some of the issues that we  
10          came up with. There's kind of a free-flowing  
11          stream of consciousness on the page, but the  
12          points are there and you might want to read it  
13          because we've touched upon more items than  
14          that. Those are the items that we came up  
15          with.

16          **DR. BLOSWICK:** Great. Thank you, Jeff. Do we  
17          have some comments in the area of construction?  
18          Please.

19          **MR. GALLEGOS:** My name is Robert Gallegos. I  
20          live in the State of Utah. The comment made  
21          regarding undocumented workers and coming in  
22          and taking all of the workers and creating a  
23          problem with the other employees. The whole  
24          issue is don't hire them. Don't hire  
25          undocumented workers. A lot of companies are

1 hiring undocumented workers because they pay  
2 cheaper wages. They shouldn't be hiring them  
3 and they do hire them. This goes on  
4 consistently in the State of Utah. Another  
5 issue that you brought up is the drug problem.  
6 In the State of Utah, we have a real severe  
7 problem with meth. We are having a hard time  
8 finding anybody who can pass a drug test. It's  
9 a severe problem. People are working and are  
10 on meth. They're working on the job. We're  
11 having to import people from Russia and China  
12 to do the work here in the State of Utah. We  
13 have a serious problem. The legislature  
14 doesn't address it. The companies are not  
15 addressing it. It's a real severe problem and  
16 there's a lot of accidents that happen because  
17 of the drugs that people are taking and going  
18 to work under the influence.

19 **DR. BLOSWICK:** Thank you. Are there any other  
20 comments in the construction sector? Kurt?

21 **MS. PARTNER:** My name is Emily Partner and I'm  
22 with Utah OSHA. I'm a compliance officer. One  
23 of the things that I see that ties into the  
24 issue that we see in construction is  
25 construction companies that are flying under



1 the radar of everybody and hiring various  
2 ethnic groups. It may even be people that may  
3 be legal who come to this country and they have  
4 no knowledge of what is acceptable as far as  
5 pay or safety. The things that we take for  
6 granted. The unscrupulous company owners hire  
7 them and pay them cash daily, so they have no  
8 paper trail. These people get up to do  
9 construction and a lot of time they don't speak  
10 English and they don't know they're being taken  
11 advantage up. We come along as a compliance  
12 body and they're afraid of us because they  
13 aren't aware of us. I think it's a real huge  
14 problem.

15 **DR. BLOSWICK:** Thank you. If there are no  
16 comments from the floor on construction then we  
17 have healthcare and social services as our next  
18 sector.

19 **MR. RICE:** My name is Nick Rice and I'm a  
20 practicing industrial hygienist working  
21 primarily for the University of Utah healthcare  
22 at the Health Sciences Center. Our healthcare  
23 and social services group had approximately  
24 nine individuals representing hospitals,  
25 nursing, physicians, clinical laboratories,

1           several academic folks, and people interested  
2           in wellness programs, and healthcare  
3           administration. Just a point of clarification  
4           or disclosure here, there was kind of two  
5           different interpretations of what the  
6           healthcare and social services group was to  
7           represent. One being that that was an  
8           industrial sector, but there was a fraction of  
9           the group that interpreted this as being just a  
10          discussion of healthcare in general and  
11          providing social assistance and insurance to  
12          workers. So there was a little bit of  
13          confusion as to what the group represented.  
14          What I'm going to do is just provide a list of  
15          our top priorities and then expand a little bit  
16          on some of the goals or outcomes that the group  
17          thought might be important.

18          The top priority that was identified was  
19          musculoskeletal disorders in healthcare. I  
20          know that's an issue that goes across many  
21          industries. The second priority was stress in  
22          the workplace. A lot of discussion on shift  
23          work and long working hours. Supportive  
24          workplace health and safety culture. A general  
25          category of hazardous chemical exposures with

1 particular interest in hazardous drugs.  
2 Workplace violence, particularly in  
3 neuropsychiatric settings. Several other folks  
4 or industry groups mentioned workplace  
5 violence, but in healthcare it's a little bit  
6 of a different animal in that we have not just  
7 the issue of worker/worker workplace violence,  
8 but worker/patient, worker/family/patient. We  
9 have the emergency department where we might  
10 have trauma cases coming in and you can see  
11 other gang members or those kinds of  
12 interactions happening in the emergency  
13 department; then just workplace violence in the  
14 psychiatric setting. There was some interest  
15 in economic research into healthcare coverage  
16 for all workers. A lot of talk about known and  
17 emerging workplace infections, personal  
18 protective equipment in healthcare, and an  
19 aging workforce.

20 Some of the specific goals or outcomes that  
21 were of interest and were identified were  
22 identifying best practices for lifting  
23 procedures in healthcare. Quite a bit of  
24 discussion about an increase in the number of  
25 bariatric patients, and those are very, very

1 large patients over 300 pounds that healthcare  
2 is seeing. Also, developing specific  
3 engineering controls to deal with those  
4 bariatric patients or other special patient  
5 populations such as in a burn trauma unit where  
6 you might have somebody covered with an 80  
7 percent burn where conventional lifting devices  
8 are not appropriate.

9 There was interest in evaluating the impact and  
10 productivity of musculoskeletal injuries and  
11 prevention programs, and the evaluation of the  
12 effectiveness of an exercise or  
13 stretch-and-flex program in healthcare  
14 settings. There was some discussion about  
15 stress in the healthcare setting.

16 Particularly, it was identified that there  
17 really aren't any tools available to measure  
18 stress in the workplace, and just the  
19 evaluation of stress leading to an increased  
20 number of injuries.

21 Quite a bit of discussion of shift work and  
22 long working hours. As you all know,  
23 healthcare operates 24 hours a day, 7 days a  
24 week. Twelve-hour shifts are the norm for many  
25 of the nursing staff and support staff.

1           Mandatory overtime is not uncommon with our  
2 shortage of nurses right now. There was an  
3 interest on evaluating the effect of those  
4 working hours in shifts and the effect that  
5 might have on health and safety, including  
6 injuries and illnesses.

7           I mentioned there was confusion about what the  
8 group was supposed to talk about; whether we  
9 were talking about the healthcare industry or  
10 about healthcare in general. There was a large  
11 discussion about nationalized medicine. There  
12 was some interest out of the group about  
13 economic research into benefits of increasing  
14 productivity or safety in the healthcare  
15 workforce. It was recognized that a barrier  
16 might be that this is outside of the realm of  
17 NIOSH.

18          We mentioned workplace violence. The group  
19 believes that in the healthcare industry there  
20 is quite an aging workforce, particularly in  
21 our nursing staff. There was an interest in  
22 evaluating how do we keep an aging workforce  
23 productive and safe and try to delay retirement  
24 for those folks.

25          Personal protective equipment and best

1 practices for selecting PPE, particularly for  
2 hazardous drugs such as your different  
3 chemotherapies, antiviral, and interest in  
4 researching the effectiveness of respirators in  
5 relation to bioaerosols.

6 We had one individual who had an interest in  
7 nutraceuticals, or the vitamin and mineral  
8 industry. It's not exactly healthcare related,  
9 but somewhat in just exposures that might occur  
10 in manufacturing or preparation of those  
11 supplements. That concludes the summary that  
12 I've got.

13 **DR. BLOSWICK:** Do we have any comments on  
14 healthcare, social services? We have a comment  
15 from Eric Wood.

16 **MR. WOOD:** Eric Wood. I'm an occupational  
17 physician at the University of Utah. I want to  
18 follow up more on infectious diseases within  
19 the healthcare setting and the protection of  
20 healthcare workers from both known and emerging  
21 pathogens. I'm curious about how much we can  
22 learn about what other diseases might be  
23 affecting workers. Things like how much work  
24 time is lost because of the common cold and how  
25 much lost time there is among healthcare

1 workers because of direct contact with patients  
2 who have that. Also, what procedural areas of  
3 medicine are the highest risks for production  
4 of bioaerosols and where do we need additional  
5 protective devices or engineering controls for  
6 that.

7 Finally, what is acceptable for healthcare  
8 workers in their work practices for using  
9 protective devices and being able to still  
10 accomplish the tasks they need to do as  
11 clinicians.

12 **DR. BLOSWICK:** Thank you. We have four sectors  
13 left at this point. Let's take 15 minutes and  
14 we'll meet again.

15 (Whereupon, a recess was taken from 2:15 p.m. to  
16 2:35 p.m.)

17 **DR. BLOSWICK:** Let me read the next four off in  
18 order so that we all know where we are headed.  
19 We have mining, MSDs, public and private  
20 services, and multicultural issues. So our  
21 first presentation is for mining and it's from  
22 Dr. Leon Pahler.

23 **DR. PAHLER:** Good afternoon, I'm Leon Pahler.  
24 I'm with the Rocky Mountain Center. And as was  
25 indicated, the topic for our group was mining.

1 We had representatives from the open-pit mining  
2 industry and from the face-and-back or the  
3 typical tunnel-type mining, plus NIOSH  
4 representatives. We had the OSHA Salt Lake  
5 City Technical Center and a couple of people  
6 from the industry were there. Basically, we  
7 organized our discussion at the table into five  
8 different areas. The first one being the  
9 disease and injuries, the second one exposures,  
10 the third was population at risk, the fourth  
11 was failure of some of the occupational safety  
12 and health programs, and then last was a  
13 miscellaneous that was provided by the  
14 attendees at the table.

15 So the first one under the disease and injuries  
16 category -- and these aren't in any priority  
17 and I'll provide the priority at the end as far  
18 as which one was first and which was the  
19 second. Under that first one was whole-body  
20 vibration. Basically, providing NIOSH an  
21 opportunity to provide some of the regulations,  
22 some of the requirements for safety issues  
23 regarding what those whole-body vibration  
24 issues might be. Typically in the industry,  
25 the heavy vehicle where you have the trucks,



1 shovels, dozers, and other large equipment for  
2 the whole body and then related to that -- not  
3 necessarily whole body, but you have the hand,  
4 wrist, arm, elbow, up into the shoulder for the  
5 handheld machinery in the mining industry that  
6 they felt that some regulation and guidance  
7 should be available as far as the vibration  
8 issues.

9 The next issue that was brought up was  
10 basically that a lot of the machinery used in  
11 the mining industry is very noisy and that it  
12 would be a benefit to reduce that noise. And  
13 part of the comment that arose from that  
14 discussion was that have the industrial people  
15 talked with or communicated with the  
16 manufacturers of that equipment and asked them  
17 if they are able to reduce noise for that  
18 particular equipment.

19 The next issue, which provides a huge area of  
20 research and input from a lot of people is  
21 communication under ground. The first would be  
22 a wireless communication inside the tunnel to  
23 the surface personnel. Then that type of  
24 communication would have to be resistant to  
25 infrastructure failure. As we've noticed in

1           the news of late there have been a number of  
2           mine emergency situations that would have  
3           benefited from this type of communication. The  
4           other part of that communication would address  
5           personnel tracking underground to know where  
6           they are from above ground to those people  
7           underground; whether it's an emergency  
8           situation or just routine operations. Two-way  
9           communication would be a huge boost for the  
10          industry.

11          Another area that was talked about was that the  
12          miners themselves should be taught that the  
13          first priority in an emergency situation would  
14          be to escape from the mine, get away from the  
15          situation, get out if possible, and that the  
16          last resort is if you're not able to find a way  
17          out of a mine then there should be the  
18          self-contained self-rescuer that has a longer  
19          time for the -- helping the miner to stay  
20          alive.

21          The next issue was there might be in place  
22          various sites in the mine that you would have a  
23          building or a chamber or something of that  
24          nature that is equipped with oxygen, water,  
25          first aid, and communication.

1           The next issue that was talked about was the  
2           conventional situations as far as injury and  
3           diseases are the dust, the diesel particulates,  
4           the dust particulates, the vapors, the fumes,  
5           and those issues. As part of that, the next  
6           topic as far as leading into the exposure was  
7           that it was felt that a real-time monitoring  
8           system with speciation and specificity would be  
9           desirable and not only have that specificity  
10          and speciation, but be low cost so that it  
11          would be available to most mining situations.  
12          In the real-time situation, another area that  
13          was felt that could deserve some research and  
14          input was that the toxicity modeling and  
15          information for some of the 12-hour shift  
16          situations are not really well documented. So  
17          that lends itself to some more investigation.  
18          The other situations here are ones stemming  
19          from the dust-type monitoring and that would be  
20          the personal dust monitors or the PDMs. There  
21          is a company that will next year be supplying  
22          commercially a PDM which will help facilitate  
23          those people experiencing exposure and  
24          over-exposure situations.  
25          Another issue that came out was the distinction

1           between the diesel fraction, the carbon  
2           fraction, especially in a coal mine and then  
3           the inorganic in a metallic-type mine to be  
4           able to speciate the types of dust particles.  
5           So that was an interesting consideration.  
6           Another one was in certain mines that have a  
7           sulfuric acid and a sulfate combination. And  
8           it would be in this person's estimation a good  
9           thing to be able to tell the difference between  
10          the sulfate and sulfuric acid. This will be of  
11          great help, also.  
12          Another issue that came out under this  
13          particular topic was that some coal mines have  
14          hydrogen sulfite or gas. Part of that is that  
15          they are using the respirator as personal  
16          protective equipment and are asking or looking  
17          at some NIOSH information and guidance to  
18          basically come up with the exposure times and  
19          canisters and that sort of information.  
20          Another situation here is a number of canisters  
21          typically have a change-out period for it and  
22          some canisters have an end-of-life indicator on  
23          the canister. Basically, it was brought up for  
24          the mining industry that if more of the  
25          canisters had the end-of-life indicator it

1 would be a big benefit.

2 The other situation was the welding fumes and  
3 they're using various respirators and helmets  
4 in conjunction with gas masks and looking again  
5 for the end-of-life indicator.

6 The next topic area was the population at  
7 potential risk. The first thing that came out  
8 of this topic or this discussion area was the  
9 situation with the older generation. It seems  
10 to be a permeating topic that runs through a  
11 lot of these industries, and it's  
12 understandable. Some of us are getting are  
13 older.

14 The next issue as part of another topic that  
15 has been already talked about is the longer  
16 than eight-hour shifts with the odd times off.  
17 So shift work is a big issue as far as a  
18 population at risk. They're looking at needing  
19 more information as far as the youth compared  
20 to older people and how they handle it; the  
21 immediate versus long-term effects. The other  
22 situations being that you have holidays on a  
23 regular schedule, but on shift work typically  
24 not. I have two minutes left and I have 20  
25 more minutes worth of material. Anyway, moving

1 on down through this a little faster I see one  
2 of the issues in the mining industry is that  
3 they found that the new generation and new  
4 employees seem to have a work-ethic problem.  
5 The highest risk is for the new miner and  
6 typically for the first six months. That's  
7 when they have the most accidents.  
8 The other issue that we talked about was having  
9 a wellness program in the mining situation.  
10 The problem with some of that is during a  
11 wellness program you either have it during work  
12 or after work. And if it's after work the  
13 situation typically arises that the employee  
14 would rather not engage in a wellness program  
15 since it's their time off.  
16 Some of the miscellaneous items that we talked  
17 about were that the health providers would like  
18 to have an indication of early detection for  
19 pulmonary disorders, chronic bronchitis,  
20 silicosis, fibrosis; those types of situations.  
21 There was an issue brought up as far as carbon  
22 monoxide and its impacts or effects on hearing.  
23 The last one was ergonomics, which seems to be  
24 pervasive throughout.  
25 Then to sum it up, one last one was the

1           electromagnetic fields, or EM fields, for  
2           people working in small power plants for eight  
3           hours. Our priorities for these issues was  
4           number one, effective communication, which  
5           would save lives. The second one was the  
6           ergonomics, the whole-body vibration and other  
7           ergonomic issues. All the topics were good  
8           issues and deserved consideration. That  
9           concludes my summary of the mining industry.

10       **DR. BLOSWICK:** Do we have any comments from the  
11       floor relating to the mining sector? Why don't  
12       you come on up here?

13       **MR. ASHMAN:** My name is Al Ashman. I'm with  
14       the United Steel Workers. I work out at U.S.  
15       Magnesium. In regards to the electromagnetic  
16       fields, what I was interested in was some  
17       research in dealing with high amps and low DC  
18       voltage. I haven't been able to find hardly  
19       any research in regards to that at all. Our  
20       employees are exposed to 12-hour shifts at  
21       about 280,000 amps and about six volts DC. We  
22       don't have any research on what this is doing  
23       to the people.  
24       We also were interested in this shift circadian  
25       rhythms. It seems to be an ongoing thing in

1 just about every industry as it comes up and I  
2 would like to see more research in this country  
3 talking about people who are in rotating shifts  
4 and 12-hour shifts and how that affects their  
5 health in the long term. The little bit of  
6 research that I've been able to find in Europe  
7 indicates that after prolonged exposure the  
8 body seems to deteriorate for a significant  
9 population. I'd like to see NIOSH identify  
10 that.

11 **DR. BLOSWICK:** Thanks.

12 **MR. SUSSEX:** My name is Richard Sussex and I'm  
13 with the Rocky Mountain Center. A couple of  
14 issues. One is, is there a relationship  
15 between shift length and drug use? We've had a  
16 lot of people talk about shift length and drug  
17 abuse, but I think there is a relationship  
18 between the two. The second thing is the study  
19 between the relationship of safety and fines.  
20 Specifically, in mining where in 2005 80  
21 percent of national violations were for one  
22 miner exposed. I want to know if there's a  
23 relationship between fines and the level of  
24 safety in the facilities.

25 **DR. BLOSWICK:** Rich, your discussion there



1           about the mines, you're saying that the fines  
2           were for one person exposed, but actually there  
3           were probably more people exposed; is that what  
4           you mean?

5           **MR. SUSSEX:** Yes.

6           **DR. BLOSWICK:** And then your other comment had  
7           to do with is there a relationship between how  
8           much a mine has been fined and their overall  
9           safety program?

10          **MR. SUSSEX:** Just curious, yes.

11          **DR. BLOSWICK:** Thanks.

12          **MR. PAHLER:** Leon Pahler here, again. I have a  
13          couple of other comments and one of them being  
14          that was discussed previous to this was the  
15          drug problem. Most of the mining-type people  
16          who are in the companies represented here do  
17          have drug screening. So they do look after  
18          that problem and watch out for it. The other  
19          issue was that of employees not being  
20          conversant in English. That was a major  
21          problem also. One person made the comment that  
22          in the mining industry in order to stay ahead  
23          there needs to be leadership, education, and  
24          training.

25          **MR. WOOD:** My name is Dean Wood. I had an

1 interest in finding out if the high-energy  
2 drinks that the young people are consuming in  
3 large quantities are imposing health problems.  
4 We have people working 12-hour shifts and  
5 they're drinking six to eight of these energy  
6 drinks. I don't know if that is going to  
7 influence them over the long haul.

8 Also, a second item would be communication.  
9 I'm wondering if there is significant  
10 information on exterior noise for either  
11 sending or receiving and if that is a hindrance  
12 in the communications of miners.

13 **DR. BLOSWICK:** I have no comment on those, but  
14 those are good points to have in the record.  
15 If there are no other questions or comments  
16 relating to mining then our next topic is  
17 musculoskeletal disorders.

18 **MR. BESSER:** My name is Brett Besser. I'm with  
19 the Department of Labor here in Salt Lake. I  
20 was the facilitator for this group and had  
21 hoped to have somebody else present this, but I  
22 just decided that I would do it myself. We had  
23 a very large group, two tables' worth. We had  
24 academia, healthcare, PTs, government, and I  
25 think there was some business people, but once

1 I told them that I was from OSHA they didn't  
2 seem to volunteer that they were with business.  
3 Our primary areas of interest -- and these are  
4 kind of a circular logic between the area of  
5 interest and studies needing to be done to  
6 support those areas of interest. So I'll go  
7 through the interest areas first.

8 Because we had some healthcare people on there,  
9 they were interested in treatment modalities  
10 for injured employees and how far one would  
11 have to take the treatment and when would they  
12 know that somebody was cured or able to go back  
13 to the job. And issues of effective treatment  
14 modalities and what's the payback for the  
15 medical intervention. The other thing that  
16 goes along with that is under a standardization  
17 sort of issue is how do you handle the aging  
18 workforce. Then most of the analysis tools and  
19 things that we use are based on this healthy  
20 workforce model. Do we maybe need to develop a  
21 secondary model of the weakened workforce or  
22 aging workforce? Most of the business people  
23 were genuinely interested in coming up with  
24 some solutions on how to address this aging  
25 workforce issue because these older workers

1           were their most valuable workers. They were  
2           the folks that had the training and ability to  
3           get the most profit for the company and they  
4           wanted to be able to keep them on the jobs.  
5           They wanted to be able to identify ways that  
6           they could help them.

7           I think training was an issue. One of it was  
8           when do we train, what do we train to, and how  
9           often do we retrain. I think partly another  
10          training issue was training of our management  
11          staff and the safety and health workers in how  
12          to do problem solving that many times we go out  
13          and we begin to attack a problem before we've  
14          really identified what the nature of the  
15          problem is. This is something that NIOSH can  
16          help us with; a system for working through  
17          problem solving so that we know that we're  
18          addressing the right problems.

19          Some standardization in work-analysis tools and  
20          the question that goes along with that is who  
21          would do the analysis. Many of the tools right  
22          now are designed for the academic large brains  
23          to come in and work your workplace, but could  
24          we come up with other tools that say somebody  
25          with moderate training could do most of the

1           analysis in conjunction with others in the  
2           company, or is there a way to create tools that  
3           if you have a motivated workforce that wants to  
4           improve can you just use your own workers in an  
5           effective manner to analyze and correct  
6           situations. Along that same line, the other  
7           thing was tool analysis that the tools that  
8           you're actually using in your job are quote,  
9           ergonomic so you don't have ergonomic head  
10          covers for your golf clubs or some of the other  
11          kind of silly things that you see. So to get  
12          to those we decided that we'd like to see some  
13          quality studies, but since you have the problem  
14          with our current work situation where many  
15          employees are transient and they move between  
16          companies, it's very hard to get a cohort for  
17          long prospective studies. Is there a way to  
18          take multiple short studies and incorporate  
19          them together? Basically, a group of success  
20          stories and incorporate those together to get  
21          some sort of a robust result.

22          I think the other thing was some assistance to  
23          companies in how to design a meaningful study.  
24          More of what we have in this room where we have  
25          more public input into what do we need. Then

1 assistance in taking the studies and distilling  
2 them down into how should the company owner or  
3 operator proceed. What does the data mean and  
4 how should they proceed in their own company?  
5 Finally, NIOSH's place in this is the  
6 communication gap between the researchers and  
7 the companies that take the input that's come  
8 from good, short-term success stories and get  
9 those out and available to the practitioners.

10 **DR. BLOSWICK:** Thank you, Brett. NIOSH  
11 performed a study five or six years ago that  
12 was the most comprehensive review into the  
13 relationship between workplace risk factors and  
14 outcomes with musculoskeletal disorders.  
15 That's available on the NIOSH website,  
16 downloadable. Be careful before you hit print  
17 because it's about 400 pages. It is the gold  
18 standard that we all refer to to determine the  
19 relationship between workplace risk factors and  
20 outcomes. Do we have any comments? Thank you.

21 **MS. MOFFIT:** I'm Jan Moffit. I'm from the  
22 Workers' Comp Fund, and I'm an attorney. One  
23 of the things that is causing a huge concern is  
24 medical management of industrial injury,  
25 particularly when it comes to the area of

1            pharmaceuticals and pain management. That's  
2            where we've seen a huge rise in the cost in the  
3            last four or five years. What we see is there  
4            are very little protocols for physicians for  
5            what kinds of medications are appropriate for  
6            treating injuries. The kinds of medications  
7            that are prescribed now were originally  
8            formulated for treating terminal cancer  
9            patients. So the focus seems to be more on no  
10           pain versus restoring functionality to the  
11           individual, and I'd like to see some studies  
12           done on that.

13           **DR. BLOSWICK:** That's a great comment.

14           **MR. SUSSEX:** Rich Sussex, again, Rocky Mountain  
15           Center. One of the things that Brett alluded  
16           to that I think is important is this idea of  
17           case-study templates that could be available to  
18           companies to showcase their achievements and  
19           share with others and better demonstrate the  
20           cost benefits. A lot of companies know that  
21           they've gotten something good, but they don't  
22           know how to show it off. Maybe make those  
23           available online for other companies to see. A  
24           lot of people are looking for how did you do  
25           that. I think a way to share that and to show

1           that it is cost effective -- some of the people  
2           at our table thought they could really use  
3           that.

4           **DR. BLOSWICK:** Thanks, Rich. I don't want to  
5           sound like a broken record, but once again the  
6           OSHA website does have quite a list of case  
7           studies where things have worked with  
8           recommended abatements and protocols for  
9           implementation.

10          **DR. HEGMANN:** I think that was another good  
11          comment. I would add that there's a  
12          functionality and access issue because some  
13          websites are easy to use and others are not so  
14          easy to use. This is an issue that cuts across  
15          all sectors and all areas in terms of good  
16          access to programs which effectively have been  
17          demonstrated to reducing injuries and work comp  
18          cost.

19          **DR. BLOSWICK:** Thank you. Once again that was  
20          Dr. Kurt Hegmann. There is a document that  
21          NIOSH has and I wish I could remember the name  
22          of it, but it's something related to  
23          musculoskeletal disorders and how to implement  
24          a program with various worksheets and templates  
25          and things like that. It's also available on



1 the web. If you go to the NIOSH website and  
2 then search for musculoskeletal you'll find it.  
3 Do we have any other comments on MSDs?

4 **MR. WOOD:** Eric Wood from the University of  
5 Utah. I think following up with that treatment  
6 question posed earlier, as a clinician I'd also  
7 like to have more evidence to studies that deal  
8 with how I can determine what a worker that  
9 comes up with an injury -- how we can determine  
10 what they can possibly do for future work and  
11 for disability-type evaluations. There's not  
12 very much evidence at all on how we can make  
13 those decisions that have a huge impact on that  
14 person's employability and vocational  
15 capabilities following those types of injuries  
16 and surgeries.

17 **DR. BLOSWICK:** Thank you, Eric. Before we move  
18 into our next section, which is public and  
19 private services industry, I'd like to mention  
20 that before we move into the prioritization  
21 area there's going to be an opportunity for  
22 individuals to make comments to the group.  
23 Those people are on the agenda and will be on  
24 the podium within a few minutes. So for now  
25 let's move ahead with our next sector, which is

1 public and private services industry.

2 **MR. RODRIGUEZ:** My name is Tim Rodriguez. I'm  
3 the risk manager for the City of Salt Lake.  
4 I'm here representing public and private  
5 services. Our number one issue really affects  
6 everyone in this room. It's meth exposures and  
7 clandestine drug labs; especially for the  
8 police officers who investigate. Number one,  
9 we have these police officers who go through  
10 and do their job and investigate these drug  
11 labs, and some of them are coming down with  
12 cancer. As a representative from the risk  
13 management department, my job is to go through  
14 and look after the taxpayer's money. We've not  
15 found any true scientific studies that have  
16 been done to tie these two together. That's  
17 why we feel this is an important matter that  
18 needs to be addressed by NIOSH. They need to  
19 take the lead and go ahead with scientific  
20 studies so I can go to you as a taxpayer and  
21 say look, we need to pay for these officers  
22 because we have proof.

23 The second issue that was next important comes  
24 to firefighters and their exposures to cancer;  
25 the same type of issues. They go through and

1           they protect the public wellbeing. Again, we  
2           don't have enough scientific proof to go  
3           through and for me to go to you and say look,  
4           we need money to pay for these firefighters.  
5           That's why we feel this is an important issue.  
6           Next, is asbestos exposure and related  
7           training, specifically in schools. Long-term,  
8           low-level chemical exposures in workplace labs  
9           and what are associated with the hazardous  
10          problems. Again, more chemical studies.  
11          There's just not enough that we know about  
12          chemicals yet and their effects long-term.  
13          Next on the list we had PPE safety. What types  
14          of PPEs are out there? Are they protecting us  
15          in the long-term? Hearing loss exposures,  
16          especially with our youth. Those new iPods,  
17          the walkmans, what is this doing to our youth  
18          and our future workforce.  
19          Car-fume exposures in transportation workers.  
20          Constant noise and continual low levels of  
21          noise. What is this doing to the hearing of  
22          our workforce? Insulated air circulation  
23          systems in clean rooms. Apparently, the  
24          workers' comp fund is seeing more claims in  
25          regards to TB outbreaks occurring in these

1 rooms. Mold exposures. Eye strain. What is  
2 happening with the computers? We're all going  
3 to a paperless society. What is this doing to  
4 our workers? Musculoskeletal injuries,  
5 especially we're seeing more injuries in our  
6 training than the actual law enforcement or  
7 firefighters doing their job. Violence in the  
8 workplace. Stress in the workplace and how to  
9 handle it. We're seeing more PTSD claims. And  
10 then recreation facilities. We're seeing a lot  
11 of accidents in other areas of the country.  
12 Those were our areas.

13 **DR. BLOSWICK:** Thank you. We have a comment.

14 **MR. HALLMEISTER:** Jim Hallmeister with the  
15 manufacturing sector. I brought a question in  
16 from another sector that couldn't be here  
17 today. She asked if I would relay this to the  
18 NIOSH folks. That's I'd like to see the NIOSH  
19 group take up the challenge of second-hand  
20 tobacco smoke with regard to it being an  
21 environmental toxin and establish permissible  
22 exposure levels. This would help business  
23 owners in addressing the needs of the  
24 hospitality industry.

25 **DR. BLOSWICK:** Thank you for that comment.

1           **MS. BLACKCUT:** I'm Susan Blackcut and I  
2           represent approximately 40 police officers here  
3           in Utah. Many of these officers have worked in  
4           the narcotics field for a number of years  
5           starting in the 1980's. I just wanted to add a  
6           few comments to what Mr. Rodriguez had said.  
7           Many of these officers are now coming down with  
8           various forms of cancer. Many of them are  
9           coming down with forms of esophageal cancer,  
10          kidney, liver cancer, and leukemia, and so on  
11          so forth. These gentleman and woman did a lot  
12          of the methamphetamine drug busts through the  
13          1980's and 1990's, and they had virtually no  
14          protective gear whatsoever. They did a lot of  
15          this work with nothing but latex gloves. They  
16          were in flip-flops, shorts, tee-shirts, and  
17          that was it. They were exposed to all of these  
18          various dangerous chemicals for hours and hours  
19          doing this kind of work.  
20          What we're now seeing is that they're getting  
21          very, very sick and we believe it's as a result  
22          of their prolonged exposure to these chemicals.  
23          We don't think Utah is the only place where  
24          this is occurring. We think that we are really  
25          the first place where it's really becoming an

1 issue. We really do think that NIOSH should  
2 take this issue very seriously. We hope that  
3 they will engage in some serious studies of  
4 this issue. Meth is the number one drug  
5 problem in our country. It's been mentioned  
6 here several times by various groups. These  
7 brave officers that have done so much to try to  
8 eradicate this drug from our communities  
9 deserve to have this issue studied to put to  
10 rest whether or not there is a medical and  
11 scientific relationship between these illnesses  
12 that they're coming down with and their  
13 exposure while they did this very important for  
14 us. I hope NIOSH will take this seriously and  
15 dedicate some funds to researching it. Thank  
16 you.

17 **DR. BLOSWICK:** Thank you.

18 **MR. SUSSEX:** Another comment on meth labs. The  
19 scale is not just with our police officers and  
20 firemen. That's our concern. We want to make  
21 sure they're safe in the workplace, but it also  
22 affects families in communities who are moving  
23 into homes and other places where they have  
24 cooked methamphetamine. It could affect  
25 children that were living in the home with

1           their parents who are using meth. An article  
2           came out in Newsweek not too long ago showing  
3           the number of busts across the nation in 2004.  
4           We only had 69, which was down from hundreds in  
5           years past. Other places had many more busts.  
6           Newark, 574 busts; Minneapolis, 270; New  
7           Orleans, 507 busts of drug labs. This is a  
8           major charge across the country that's  
9           affecting our communities. Some have even  
10          called it the epidemic of the age. I'd just  
11          like to tell NIOSH that Utah stands ready to be  
12          at the forefront to study these issues and to  
13          take care of our police officers and our  
14          firemen. Thank you.

15         **DR. BLOSWICK:** I'd just like to take this time  
16          to note that there's another population  
17          exposed. I have a daughter that worked for the  
18          Division of Child and Family Services that  
19          accompanied a lot of these teams into the meth  
20          labs during the busts, and so you have a social  
21          services overlap with the group that presented  
22          a few minutes ago that's also been exposed to  
23          meth. It's giving me some concerns after  
24          listening to the comments. If we have no other  
25          discussions on this area our last group is

1 multicultural.

2 **MR. PUGH:** Thank you, Don. I'll introduce this  
3 topic by first off saying that we had a real  
4 lively discussion on this issue. I think that  
5 prefaces this topic in the fact that it's  
6 something that's not well defined. If I ask  
7 you what it meant, I would probably get a lot  
8 of different answers from this room. We're  
9 talking about culture, ethnicity, race,  
10 minority, affirmative action. These are all  
11 things that come up associated with this topic.  
12 We had a real lively discussion. I'll  
13 introduce the members of our group. Robert  
14 Gardner representing insurance, Robert Gallegos  
15 representing RAZPAC, Francine Barber with SWC  
16 Consultants, Sandra Plazas (\*) and Gladys  
17 Gonzalez who are two small business owners, and  
18 representing myself, Charles Pugh with Workers'  
19 Compensation.  
20 First, I would like to say that we would look  
21 to NIOSH for leadership on this subject. I  
22 think this is a great opportunity. If you look  
23 at all of the topics that we've discussed  
24 today, there seems to be an underlying theme in  
25 all of those, and this would be one of those



1 topics that touches all of the different areas  
2 that we discussed today. I'd like to think  
3 ahead to NORA ten years from now and ask you  
4 how many of you are going to be in this room  
5 ten years from now. So we're changing and the  
6 dynamics of our workplace is changing. Who  
7 will replace you? That's the issue. If you  
8 look at the United States of America and our  
9 gross national product, we're going to need  
10 workers and those workers are going to come  
11 from foreign countries. So we're going to have  
12 a lot of people coming into our society. It's  
13 a timely issue.

14 To summarize our comments we would like NIOSH  
15 to take a look at this subject and particularly  
16 help us identify it. What do we call it? I  
17 don't think there's standardization. In Utah,  
18 when we gather workers' compensation injury  
19 data there's no place on there to record  
20 ethnicity or race. Typically, if you look at  
21 government forms you'll ask someone for race.  
22 What does that mean? If I'm a Bosnian who  
23 moved here to Salt Lake City to work for a  
24 company and they asked me for race I would  
25 probably mark Caucasian. Does that mean that

1           there's not a multi-cultural issue with myself?  
2           Or if I get injured would that statistic go  
3           unreported based on if it was a communication  
4           issue? So there are a lot of issues. You can  
5           study demographics in the State of Utah and we  
6           talked about with the Hispanic population and  
7           some of the challenges associated with that.  
8           We would like NIOSH to take a look at that and  
9           say what is the problem. Can we champion data  
10          collection? Can we gather some statistics?  
11          Can we report this on injury and illness logs?  
12          I think the information is out there, but I  
13          think it's flawed because we don't even look  
14          for it in some cases. When I look at this  
15          data, I look at names. I can tell you that  
16          there's a larger percentage than I think there  
17          should be of Hispanic workers getting injured  
18          in construction. What does that mean? Is it  
19          communication? Is it cultural? It's a tough  
20          issue.

21          Another thing that we would like to see is  
22          NIOSH really champion OSHA and let OSHA take a  
23          look at where we're having cultural issues in  
24          the workplace that are causing us problems.  
25          One of things that we thought would be a very

1 good theme is to go out and benchmark business  
2 and say who are the businesses who are  
3 preferred employers with respect to this. I  
4 think those are the people who are going to be  
5 the future of business in the United States.  
6 Those are the people who are going to grow and  
7 be successful. Can we develop a business model  
8 and develop that in terms of the CEO? That  
9 they would look at that and say hey, this makes  
10 business sense. Let's take this business plan  
11 and implement this in the workplace and say  
12 this is what the preferred employers are doing  
13 with respect to culture and celebrating  
14 diversity rather than labeling it as a problem  
15 because it's not a problem, it's an  
16 opportunity.

17 We also would like to take a look at the  
18 education mission of NIOSH and try to develop a  
19 way so that we can develop within the  
20 multicultural workplace safety and health  
21 professionals that are bilingual and can speak  
22 in languages of the population that might be  
23 represented from an industrial manufacturing  
24 process or something like that. I'm a product  
25 of NIOSH education and I couldn't have gone to

1 graduate school without the help of NIOSH and I  
2 appreciate that. We would like to see that  
3 actually mirror the population in where we are  
4 going in the future.

5 We'd also like to see some partnership  
6 development with organizations that are  
7 successful at this point in helping integrate  
8 ethnicity in the workplace, and go out and find  
9 models that are successful and have NIOSH  
10 partner with those so that we can bring those  
11 types of organizational change into our  
12 society. In my opinion, if I were to predict  
13 the future and go five years down the road --  
14 we know it's here now, but if you take a look  
15 at population dynamics it's a large concern  
16 from a safety and health perspective. I think  
17 that's one of the things that we ought to do.  
18 I believe that I've covered all of my points.

19 **DR. BLOSWICK:** Thank you, Charles. Do we have  
20 any additional comments? I'd invite anyone who  
21 has any comments about any of the sectors to  
22 give their comments now before we move into our  
23 individual presentations.

24 **MR. GARDNER:** I'm Rob Gardner. I'm a loss  
25 prevention consultant with Liberty Mutual

1 Insurance Group. One of the things that seemed  
2 to be a common thread in virtually every one of  
3 the discussions and presentations has been  
4 communication and how can we actually motivate  
5 people to do what they need to do. In our  
6 discussion one of the things that came up was  
7 how effective are these behavioral-type  
8 programs. Do they really work? How can we  
9 find out if they do? Who does it well and can  
10 we model that? So I would like to request that  
11 NIOSH consider doing some studies to find out  
12 who does it best, does it really work, and can  
13 we incorporate that into our best practices  
14 models. That's the main point that I would  
15 like to request.

16 **DR. BLOSWICK:** Thank you, Rob. That's a great  
17 comment. I second that. I would also like to  
18 know if it works and if it does, what's the  
19 best way to make it work. Great comment. Do  
20 we have anything else? We now have  
21 presentations from six people. I'm going to  
22 read their names off in the order in which  
23 we'll ask them to present. We have William  
24 Bentley, Chris Cage, Susan Dunn, Jeff Rawley,  
25 Tom Vanderwalker, and Duane Harris. We will

1           have it in that order.

2           **DR. HEGMANN:** If people have already had their  
3           input and that sort of thing, it's okay to  
4           pass. If you have not then we certainly want  
5           to hear it. Some of the folks have already  
6           spoken.

7           **DR. BLOSWICK:** Thank you. Come on up front,  
8           please.

9           **MR. BENTLEY:** Well, this has been very  
10          informative. I was with the manufacturing set  
11          today. I was amazed with how much we came up  
12          with and then seeing that we all have similar  
13          cross-sections. I'm William Bentley and I'm  
14          the manager of safety and health environment  
15          for welfare services of the Church of Jesus  
16          Christ and Latter Day Saints. We have  
17          approximately 4300 workers. We are in  
18          manufacturing. We deal with crops,  
19          agricultural. We're into what we call  
20          second-hand operations. So we're in  
21          harvesting, and I'm up on silos 165 feet high  
22          doing safety inspections. I'll be down into a  
23          processing plant of canning products the next  
24          thing. We work with those who are looking for  
25          a job. My tenure of about 13 years on this job

1           -- these are the things that I see as  
2 challenges upcoming, but there are some  
3 solutions.

4           For example, the Internet. What a change and  
5 what a help that has been. Language. The  
6 Bureau of Labor Statistics has been very  
7 helpful in giving business reports. We've had  
8 people giving good educational formats of  
9 helping to train people on aging. I think that  
10 there has to be a change of attitude. That's  
11 something that has to get down into the  
12 cultural, whether they're Hispanic or whatever  
13 language they are. There has to be an attitude  
14 that we do something.

15          There's another thing that I want to say. It  
16 seems as though the employer is responsible of  
17 why they're not safe. That's not true. It  
18 came out strong in our manufacturing that it  
19 begins at home. We've got to do a better job  
20 at home. We've got to train our children to be  
21 multi-level skilled. They've got to know the  
22 difference in safety. If you were to look at  
23 the last booklet that came out on facts and the  
24 statistics from the Bureau of Labor of  
25 Statistics -- and by the way, the National

1 Safety Council has that annual book and it does  
2 cover Hispanics. It does cover some of the  
3 other ethnic groups. You know, there's a lot  
4 of practices that people and children have  
5 watched their parents do and they carry it  
6 right on into the workforce. As a result, they  
7 don't know any different. If I couldn't speak  
8 a language and I went to a person in a job, I'm  
9 going to assume that my supervisor or somebody  
10 else is doing it the right way, I'll do it and  
11 then I'll get the owie (\*). Only to find out  
12 that wasn't the way it was to be.

13 The next one is commitment by management. I  
14 think in all of the research that we do that we  
15 have to have a buy-off of management. Then all  
16 of the things that we have will help us. I  
17 wanted to mention that as we have worked with  
18 these groups and we've been able to actually  
19 have some models where we've had 50 to 90 or 80  
20 percent reduction. I actually have under my  
21 stewardship approximately 18 different NAICS  
22 categories. Like I said, that's a real  
23 challenge to follow that. So what I want NIOSH  
24 to do is to continue to do the research and I  
25 just want to emphasize that I think there's



1           some accountability that we need to take.

2           Thank you.

3           **DR. BLOSWICK:** Of the next group of speakers I  
4           think we have Tom Vanderwalker.

5           **MR. VANDERWALKER:** Good afternoon everyone.  
6           Can you hear me out there? I appreciate the  
7           opportunity to be here and speak with you  
8           today. I want to thank my supervisor, who's  
9           the president of our company, for having me  
10          have the opportunity to come up here and speak  
11          with you today. Of course we're here today to  
12          talk about the future of NISOH research for  
13          safety and health in America. This meeting, as  
14          I understand it, is to give input and feedback  
15          as stakeholders in this arena to place focus on  
16          areas to improve the safety and health of our  
17          workers in every facet of the work environment.  
18          I want to congratulate those who coordinated  
19          this meeting. I think mission accomplished  
20          today. I think we ought to give them a big  
21          hand.

22          I currently work in safety, risk management,  
23          and employee training in the following business  
24          lines: I'm in the aggregate mining and gypsum  
25          mining industry. Cement manufacturing and fly

1 ash distribution in the construction and mining  
2 industry in the southwestern United States. I  
3 stand here today as a participant in your past  
4 research as a reviewer, facilitator, and  
5 implementer of that research. Your  
6 organization has made a difference in the  
7 safety in my industry. That will continue on  
8 into the future if I have any say in the  
9 matter. What you do does work. We need to  
10 continue this effort with people, ideas, and  
11 resources. I work for a company that has  
12 resources and interact with many other safety  
13 professionals that have resources. I currently  
14 represent the largest accredited mining society  
15 in the world. In other words, professionals  
16 who have the field laboratory for making things  
17 happen in research. I think that's a very  
18 important part. If you do your research you've  
19 got to have some place to put it into practice.  
20 As safety professionals we have the employees,  
21 the properties, and the forum that could and  
22 would provide the field application of your  
23 research. The people in the research will  
24 often tell you what you don't want to hear.  
25 What we want to do is make a difference and

1           that will tell you what the success or failure  
2           of a project would be. We want to ask those  
3           questions. This will clarify what works and  
4           what doesn't. Then you get buy-in on your  
5           project from the end user, and that's why I'm  
6           here today. I have seen the face of the worker  
7           in the field that recognizes that his or her  
8           input made a difference. They have ownership  
9           now because they help create it and put that  
10          research into practice.

11          I started my working career in the mining field  
12          over 36 years ago. I have been able to see the  
13          creation of OSHA and MSHA in my working career.  
14          I have also seen a transition of the Bureau of  
15          Mines into NIOSH. What a tragedy that was to  
16          take that whole situation and do what they did  
17          to that, but we're going to move on from that  
18          concern.

19          I can honestly say over the years the people  
20          that I have worked with in NIOSH have been  
21          top-notch and professionals in every way. Why  
22          would I not want to come here today and not say  
23          let's keep working together and make a  
24          difference for the American Worker.

25          I guess I had two thoughts in mind when I heard

1           about this meeting. My first thought is that I  
2           wanted to go on record for my support for the  
3           efforts of NIOSH as a stakeholder and end-user  
4           of your research. The second thought, as the  
5           current chairman of the International Society  
6           of Mine Safety Professionals and representing  
7           over 650 certified mine safety professionals, I  
8           wanted to make a statement about our support of  
9           NIOSH research in professional mining society.  
10          This is an accredited mine safety society that  
11          has certified mine safety professionals in all  
12          areas of mining and other related industries in  
13          construction, manufacturing, but primarily in  
14          mining in one form or another in the United  
15          States and in the international mining  
16          community worldwide. So we're not only dealing  
17          with the issues here in America, but we're also  
18          dealing with professionals that are working in  
19          foreign lands and doing some of the training  
20          and education there. One of the things that we  
21          do do is we train and educate safety  
22          professionals. The ones that want to say well,  
23          I'm a safety person, but I want to go to the  
24          next level. We test people to a body of  
25          knowledge.

1           So let me tell you what the mission of our  
2           society is. To promote the development of  
3           safety professionals throughout the  
4           international mining community to save lives  
5           and reduce injuries through better leadership  
6           and understanding of the mining industry in all  
7           countries of the world. The International  
8           Society of Mine Safety Professionals shall be  
9           the conduit of which all mine safety  
10          disciplines are improved. The Society shall  
11          develop and support the social economic  
12          wellbeing of all safety practitioners while at  
13          the same time fostering the technical,  
14          scientific, and managerial proficiencies of all  
15          safety and health professionals.

16          Today, I want to reach out to the NIOSH  
17          community with an opportunity to fortify the  
18          efforts of your organization along with ours to  
19          establish an alliance. As NIOSH approaches the  
20          next ten years of research and application of  
21          that research in various areas of mining,  
22          manufacturing, and other industries, this can  
23          be a great benefit to our industry and to the  
24          mining profession. I propose today that the  
25          International Society of Mine Safety

1 Professionals and NIOSH enter into an agreement  
2 that will establish an alliance between both  
3 organizations. That agreement would be such  
4 that the International Society of Mine Safety  
5 Professionals and the National Institute of  
6 Occupational Safety and Health recognize the  
7 collaborative efforts of sharing resources and  
8 fostering an enhanced relationship to promote a  
9 safe, healthy, and productive working  
10 environment in industry.

11 ISMSP and NIOSH hereby would form an alliance  
12 to use the collective expertise of certified  
13 mine safety professionals of the ISMSP along  
14 with NIOSH to promote a workplace of  
15 prevention, best practices, and assistance for  
16 research and application of that research to  
17 further protect and educate the workforce.

18 Upon agreement by the NIOSH leadership and the  
19 board of directors of the ISMSP, a final  
20 alliance document would be drafted to  
21 incorporate the mission of the alliance. Many  
22 of us, including myself, spend time in the  
23 boardrooms and executive staffs of large  
24 corporations. We can be a great influence to  
25 raise the bar of safety and health of many

1 companies and corporations. We want your  
2 efforts to further that success to protect  
3 every person working in industry. We need your  
4 expertise. We as a professional mining society  
5 want to be a partner with NIOSH to further any  
6 and all efforts to stop injuries and deaths in  
7 all industry. As a Society, we want to make a  
8 bold statement that we, the Society, want to be  
9 part of the solution going forward in the 21st  
10 century. Thank you for your time and I look  
11 forward to the future research and reply on  
12 this statement concerning the alliance.

13 **DR. BLOSWICK:** I certainly can't speak for  
14 NIOSH, if there are any NIOSH people in the  
15 room that want to respond we would welcome  
16 that. If not, we now have Duane Harris. Are  
17 you in the room? Okay. So we are then at the  
18 point for prioritization, and I'm going to ask  
19 for your help with this.

20 **DR. HEGMANN:** Well, thank you. I appreciate  
21 it. This is quite a remarkable document. It's  
22 breathtaking in terms of its scope. The  
23 exercises today have exceeded my expectation.  
24 The concept now is not necessarily a  
25 duke-it-out kind of -- somebody wants to win

1 the funds or something. On the other hand,  
2 there are some things that are, perhaps, of  
3 higher priority or you would recommend them to  
4 be of higher priority. So we'd like to spend a  
5 few minutes soliciting some of the feedback.  
6 So ideally what I'd like you to do is one at a  
7 time give us what idea that you think is  
8 something that should be of higher concern and  
9 a priority so that NIOSH hears that feedback  
10 because I think that would be valuable. So  
11 again, what is the topic and a little bit of  
12 rationalization behind your selection. We'll  
13 circulate the mics through the room as well. I  
14 think Jeff has his hand up in the back.

15 **MR. RAWLEY:** Just to recap, we hope and  
16 recommend that NIOSH will approve funding to  
17 support studies for the protection of our  
18 police officers who are involved in clandestine  
19 drug operations, as well other public safety  
20 workers, including firefighters and their  
21 exposures to chemicals on the job. Thank you.

22 **DR. HEGMANN:** Thanks, Jeff.

23 **MR. ROMNEY:** Eldon Romney. I would like to  
24 encourage NIOSH to facilitate via the website  
25 or however they can just the information that a



1 lot of stuff that we talked about here -- I  
2 think certainly industries have answers to a  
3 lot of the questions that have been raised. If  
4 there was one place where we could go that  
5 would have links to the information where would  
6 could get those and try to find that would be  
7 very, very helpful.

8 **DR. HEGMANN:** Thanks, Eldon. I agree. I think  
9 that's another wonderful suggestion. It's the  
10 usefulness of the web page issue that I think  
11 you're getting at.

12 **MR. GALLEGOS:** The thing that we're interested  
13 in and that I'm very concerned with is  
14 multicultural training in the workforce. You  
15 have a population shift going on. You have  
16 immigration and people coming in from other  
17 countries. Our workforce is changing. We have  
18 to gear-up for this change. We're not doing  
19 it, and then we complain because we have all of  
20 these accidents. In the construction industry,  
21 Hispanics are 35 percent of the construction  
22 industry as workers. In the service  
23 departments, they've taken over the majority of  
24 those positions. In the health department,  
25 they're going in there and they're taking a lot

1 of positions there.

2 I feel bad because I'm an American citizen and

3 these jobs are going to a lot of people out of

4 the country, but that's the template of our

5 economy today and that's the way it's moving.

6 We need to move with the times. We need to

7 look at the problems with Latinos, Hispanics

8 concerning having injuries. Why are they

9 having injuries? It's because we're not giving

10 them the proper training as to what the safety

11 regulations are on the job. A lot of these

12 people are not understanding that. Then there

13 are companies out that they go and red-tag a

14 piece of equipment and then go tell that

15 Spanish worker to go get on that tractor and

16 bring that over here. He doesn't know that

17 it's red-tagged. We've got training going on

18 in English. We've got training going on in

19 Spanish. That training has to be a bilingual

20 education training. It has to be in both

21 languages so that the people fully understand

22 what that training really is. It's an

23 extremely important topic and a lot of people

24 don't want to deal with it. It's something

25 that we have to address and that's the movement

1 of where our job force is going.

2 **DR. HEGMANN:** Next, Charles is standing.

3 **MR. PUGH:** I'd like to speak that one of the  
4 things that we need to do -- again, I emphasize  
5 the standardized reporting. We may have issues  
6 that aren't reported. So if we look at  
7 standardized reporting with especially  
8 ethnicity then we can see if we have problems.  
9 So I'd really encourage that as well to develop  
10 some kind of standardized system.

11 **MR. COLLINWOOD:** I think I can -- hopefully I  
12 summarized the manufacturing group and got this  
13 right. One of the things we've heard again and  
14 again and we felt was relevant in manufacturing  
15 was research on emerging technology, and  
16 nanotechnology, and biotechnology. Maybe NIOSH  
17 needs to be on the forefront with the National  
18 Institute of Health in finding out what the  
19 health outcome might be upon these new  
20 exposures to something like that. I need NIOSH  
21 to disseminate and give me tools that I can put  
22 to work in my workplace. The common theme of  
23 the manufacturing is we need research into  
24 practice and we need usable tools that they can  
25 use on an everyday basis.

1           **MR. HALLMEISTER:** Jim Hallmeister. We're  
2 facing the issue of the aging worker. I guess  
3 I'd like NIOSH to take a shot of that in some  
4 form or another. We're seeing workers stay on  
5 the job longer and the Chamber of Commerce  
6 reports the real wages are decreasing in Utah  
7 and healthcare costs are increasing obligating  
8 workers to stay on the job longer. So I'd like  
9 NIOSH to assist us in determining the best  
10 practices to deal with the aging workforce.

11           **DR. HEGMANN:** Anybody else? Yes, Dana?

12           **MS. HUGHES:** I appreciate the drug problems and  
13 the meth labs and the impact on firemen and  
14 other emergency responders. I also think this  
15 is a problem that's more widespread and touches  
16 all of the industry sectors. We're seeing  
17 problems with drug abuse on the job or  
18 pre-employment problems with drug abuse in  
19 terms of businesses not being able to find  
20 qualified employees. I think the scope of the  
21 research on drug abuse in the workforce needs  
22 to be broader than just one particular segment.

23           **MR. WOOD:** In our group we came up with the  
24 potential for wellness programs to help overall  
25 health and safety programs in the workplace as

1 well. I guess I'd like to see if we can devote  
2 more resources to the availability to see if  
3 those really can help.

4 **DR. HEGMANN:** If I can also interject that the  
5 interaction between the occupational factors  
6 and the personal health factors increasingly  
7 pops up as a problem, both musculoskeletal and  
8 otherwise.

9 **MR. GRIPPA:** Yeah, I guess I take a look at  
10 what we're talking about in the workforce and  
11 understand that what we're talking through here  
12 today is going to be accomplished ten years  
13 down the road. I think it's really important  
14 that we take a hard look at what a lot of  
15 people felt like was the younger workforce is  
16 really feeling endowed for their work, but we  
17 need to pay attention to how we're going to  
18 involve those people and make sure that they  
19 understand and learn how safety is going to  
20 work for them.

21 One of the things that we really are seeing is  
22 and we're getting this back from our employee  
23 assistance programs is that as they continue to  
24 work we're seeing an increase in that age group  
25 of depression, stress, issues like that. I'd

1 really like to see NIOSH start looking into how  
2 that's going to affect them down the road.

3 **DR. HEGMANN:** Very nice. Another visionary  
4 comment.

5 **MR. WOOD:** Dean Wood with the Industrial Safety  
6 Group. The other day we had a meth officer  
7 come in and talk to us and one of the things  
8 that he pointed out to us was that -- I'm sure  
9 nobody here stays in hotels or motels. Meth  
10 labs many times are being used in hotels and  
11 motels. What would we look for in a room to  
12 determine if that has served as a meth lab  
13 before? So it isn't just the police officers  
14 and the firemen that are concerned with this.  
15 We should be concerned now. We need to  
16 understand that you and I are being exposed to  
17 those same effects. It's important to  
18 understand about those factors and how long  
19 those dangers are going to be in those areas.

20 **MR. BENTLEY:** As this research is being done I  
21 know a challenge that we do face and that is  
22 when you go to translate from English into  
23 Spanish -- I hope that NIOSH would write it in  
24 the language that is simplified so that we can  
25 understand it. There's just a lot of people

1           that wouldn't understand the technical terms.  
2           And then if it could be put into a tool kit  
3           where you could have your whole listing of  
4           topics, whether it's a over a website and you  
5           could just punch into those and it would  
6           simplify it. We've got to remember to KISS the  
7           training. Thank you.

8           **DR. HEGMANN:** Very good. Anyone else? Dana?

9           **MS. HUGHES:** One other priority that I think we  
10          should study across sectors is the shift work;  
11          health problems associated with shift work.  
12          Somebody had suggested that we needed to look  
13          at the increased use of drugs among shift  
14          workers because I think that potentially is a  
15          problem, too. We need more information  
16          regarding this.

17          **MR. GARDNER:** As I had mentioned earlier, I had  
18          an idea about taking a look at behavior-based  
19          safety initiatives and finding out do they  
20          really work or not. Just to expand that a  
21          little bit, if you look at the document it's  
22          got all kinds of references to leadership,  
23          communication, and all of those sought skill  
24          things. I guess as part of that behavior-based  
25          safety I would encourage NIOSH to take a look

1 at these sorts of initiatives. Are these just  
2 nice things to do that make you feel good or do  
3 they really work. We need to have the  
4 authoritative voice of NIOSH to help us  
5 understand if they really do or not. I think  
6 that would be a big help for all of us.

7 **DR. HEGMANN:** Very good. Nice comment. Any  
8 others? Okay. If not, we are almost done.  
9 Again, on behalf of the Rocky Mountain Center  
10 for Occupational and Environmental Health I  
11 want to thank you. We're going to have NIOSH  
12 give a few comments of response to what they've  
13 heard, which I think will be very valuable to  
14 hear. We are going to finish early, which is a  
15 goal of mine.

16 I did want to reflect from my own view point  
17 that this has been extraordinarily informative.  
18 The number of people in attendance has  
19 surpassed all of the other cities. I think  
20 that is something that we should all pat  
21 ourselves on the back about. We are going to  
22 take this document that you have, the one that  
23 we produced over the lunch hour, tune it up  
24 with your comments and we will post it up on  
25 the web. We'll also send you a thank-you



1 letter for those of you we have addresses for.  
2 As far as some of the smaller ideas and that  
3 sort of thing -- and smaller doesn't  
4 necessarily mean less important -- I give you  
5 my commitment that we will try to get these  
6 things listed out and get our graduate students  
7 involved in actually trying to solve some of  
8 these issues. This is not a meaningless  
9 process at all. It's a very meaningful  
10 process. So with that, I'd like to turn the  
11 microphone over to Max.

12 **DR. LUM:** This is where I like to say thank you  
13 for coming, but if you'll look around thank you  
14 for staying. It looks like we have the same  
15 amount of people as we did early this morning.  
16 So I think motivation is not a problem in this  
17 field. We're motivated as an agency to come  
18 out and ask for your comments and you're  
19 motivated to give it. We have to work together  
20 to make sure things do happen. I think the  
21 fear is Leon or James or Libby will call me in  
22 two years and say do you remember that town  
23 hall meeting? I had that idea that we put  
24 forward in our group. Where is that idea?  
25 What happened to that idea? So I have to know

1 the answer to that question and I think we did  
2 a pretty good first round and the first ten  
3 years we did have answers to that. But we're  
4 getting input from 13 town halls all around the  
5 country. We're going to code these in a way  
6 that we can understand what we've heard. It's  
7 interesting comparing just ten years ago that  
8 there was nothing about immigrant workers.  
9 Nanotechnology, what was that? Even the aging  
10 working issue that I'm very close to, I must  
11 say. It's just amazing how things do change,  
12 but how much of the same problems are around,  
13 like in construction, that we still have. We  
14 still have silicosis issues and mining issues.  
15 What we did see in that last ten years is the  
16 Bureau of Mines doing away with their  
17 scientific review and safety program and NIOSH  
18 picking that up, and aggressively picking that  
19 up to save that program. I think also, again,  
20 being the Communications Director at NIOSH I  
21 think a lot of what I heard today and I've  
22 heard it at other town hall meetings is this  
23 issue of knowledge management. We know a lot  
24 and we know a lot together. We know a lot  
25 together as case studies. OSHA certainly has a

1           wealth of data in its consultation program and  
2           they use our materials. We work with them  
3           closely. What do we know and can we get it in  
4           a format that really is better so you can use  
5           it. I think if there's any one area that I  
6           would look in the next ten years is our effort  
7           to work with our partners to make our  
8           information more available and useful.  
9           With that being said, I want to have a little  
10          post script to this. This is very near and  
11          dear to my heart and it concerns how do we  
12          package, how do we work on the Net, how do we  
13          get our information, how do we have a research  
14          portfolio so people can find this information.  
15          Yet, even at this meeting we have Al Munson,  
16          our director of hard science from Morgantown.  
17          So what happens to that? What about the hard  
18          science? It seems to me that part of that  
19          research-to-practice issue is also to  
20          understand and to build up the science; the  
21          body of knowledge that we need. We understand  
22          what it is, but what do we need? What body of  
23          science do we need to build up? In the past it  
24          was musculoskeletal. So it's not like it's  
25          immediately affecting this particular

1 workplace, but this whole issue of building up  
2 a body of knowledge is important because off of  
3 that body of knowledge we learn and are able to  
4 make due and improve a lot of workers and  
5 workplaces. So it's the balance that we're  
6 talking about. Certainly what I've heard here  
7 and all across the country is you need to get  
8 with it NIOSH. You need to bring your stuff  
9 down so we can get at it and understand it  
10 better. That being said; end of sermon.  
11 I think I would just like to thank Kurt again,  
12 and we have a small token of our affection for  
13 the effort that everyone has put in here. When  
14 we first raised this issue at the ERC meeting,  
15 Kurt was the most enthusiastic person that said  
16 yes, we need to do this. We really need to do  
17 this. I thought this guy does not have a clue.  
18 He has no clue, but welcome to the fold. He  
19 also told NIOSH that you need to change the  
20 format and this is what you need to do. You  
21 need to provide this source of information for  
22 us and we'll work with you, and he did that.  
23 So looking around the room, thank you for  
24 coming, thank you for staying. Just to leave a  
25 little token of our affection for your work and

1           your staff's work, it's a plaque that says the  
2           National Institute for Occupational Safety and  
3           Health, Rocky Mountain Center for Occupational  
4           and Environmental Health, for your leadership  
5           in organizing a town hall meeting for NORA. We  
6           appreciate your dedication in advancing the  
7           safety and health of workers in your region and  
8           throughout the nation. Thank you very much,  
9           Kurt.

10          **DR. HEGMANN:** That's a very nice plaque, Max.  
11          I appreciate it very much. It's an honor to  
12          have had the opportunity to host this town hall  
13          meeting and to work with you and the NIOSH  
14          staff. As I indicated at the beginning, ten  
15          years ago I was the skeptic and I got totally  
16          converted by what is truly the most responsive  
17          agency I know of. Shortly, I'll have to do my  
18          taxes and deal with the least responsive  
19          agency. We have some more editing to do on  
20          these comments. Again, thank you for coming  
21          and we always look forward to input and your  
22          involvement in our Rocky Mountain Center for  
23          Occupational and Environmental Health. Thank  
24          you.

25          **DR. LUM:** One more thing. Take a moment and

1 fill out the evaluation form. I always forget  
2 this. Fill it out, please. Give us your  
3 honest thoughts and leave it at the front desk.  
4 Thank you.

5  
6 (Whereupon, the meeting adjourned at 4:15 p.m.)

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**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 27, 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 25th day of March, 2006.

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