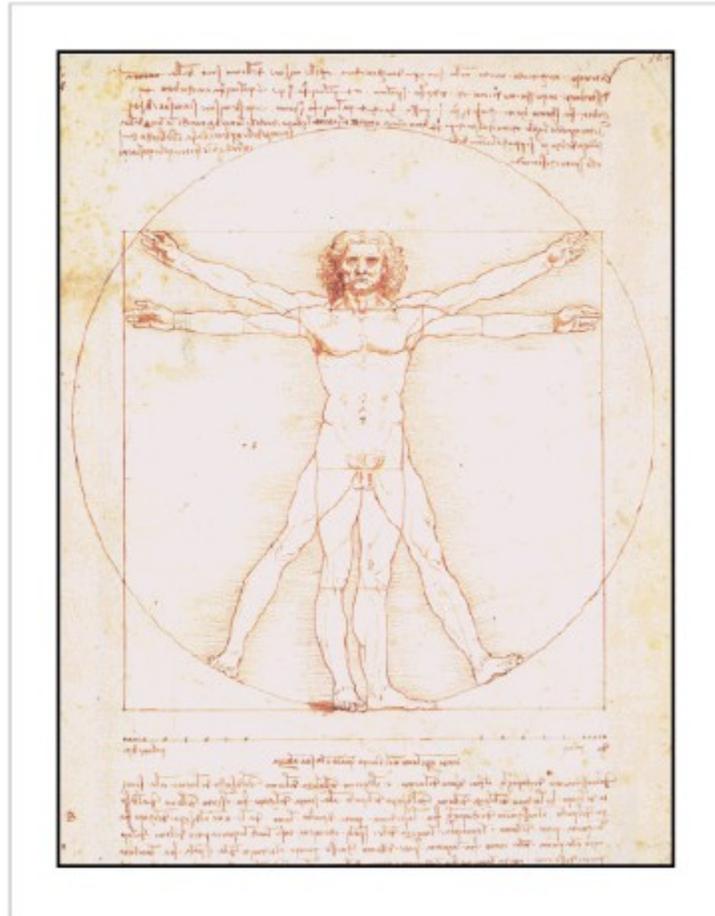




PARTNERING FOR TRANSPORTATION SAFETY

HUMAN - CENTERED SYSTEMS: OPERATOR FATIGUE MANAGEMENT



CONFERENCE SUMMARY

TYSONS CORNER, VIRGINIA

AUGUST 29-30, 2000

Sponsored by
U.S. Department of Transportation
Safety Council
Human Factors Coordinating Committee

<http://scitech.dot.gov/reeng/humperf/humperf.html>

CONTENTS

CONFERENCE SUMMARY	1
BIBLIOGRAPHY	7
AGENDA	11
LIST OF PARTICIPANTS	13
U.S. DOT HUMAN FACTORS COORDINATING COMMITTEE	25

CONFERENCE SUMMARY

On August 29-30, 2000, the U.S. Department of Transportation (DOT) Safety Council and the DOT's Human Factors Coordinating Committee (HFCC) sponsored the Operator Fatigue Management (OFM) Conference in Tysons Corner, VA). This Conference was intended to enlist support for, and participation in, a new multi-modal DOT safety initiative. This initiative builds on the modal agency programs within DOT to develop techniques that transportation operating companies can employ to ensure endurance and fatigue-free performance of their workforces. While the modal administrations have focused responsibilities, DOT has the capability to identify best practices and pool knowledge from all the DOT elements. The ONE DOT perspective makes it possible to leverage the knowledge base by building on each other's experience. The Conference provided an opportunity to participate in discussions intended to refine the objectives and products of the Department's OFM research program.

At this Conference, the participants shared best practice information on operator fatigue management, discussed the proposed products and process for DOT's OFM program, and forged working partnerships among industry, labor, government, researchers and others concerned with operator-fatigue issues.

One hundred and seventy-two representatives from government, industry, labor, academia, and other transportation-related organizations attended the Conference. This summary highlights the key observations and messages that emerged from the conference presentations and discussions. The full conference proceedings including presentations and speeches are available on <http://scitech.dot.gov/reeng/humperf/humperf.html>.

KEY DIRECTIONS

Operator fatigue is a critical issue that cuts across the transportation industry.

The National Transportation Safety Board has found that the incidence of fatigue is underestimated in virtually every transportation mode because it is so hard to quantify and measure. Many investigations simply do not explore the condition of the operators, the extent to which they have been deprived of sleep, and other characteristics of their alertness.¹

It is likely that fatigue is a bigger contributor to incidents, accidents and fatalities than many realize. Crew fatigue, for example, has been linked to a number of major crashes, accidents, and costly, highly publicized incidents, ranging from the Exxon Valdez grounding to the collision of New York City subway trains on the Williamsburg Bridge. This past July, a tug and barge skipper in the Puget Sound fell asleep at the helm, veered off course, and hit a bridge, snarling traffic for 12 days and causing an estimated \$500,000 damage.²

¹Larry Lange, "Tug crash spotlights fatigue issue," Seattle Post-Intelligencer Reporter, 9/25/00.

² Ibid.

Tailored solutions are appropriate for each transportation mode; however, all modes can learn much from each other's experiences.

There are diverse operational requirements, both within and across transportation modes. As one presenter said, "In addressing the challenges of managing operator fatigue, there is no simple solution, no one-size-fits all, and certainly, there is no magic bullet." However, a lot of groundbreaking work is going on, both within government and in industry. Conference participants stressed the need to learn from each other, identify common themes and build on the work already in progress in order to minimize duplication of effort.

Collaborative partnerships among government, industry, labor and other concerned parties in the transportation industry are essential in addressing operator fatigue.

There was widespread agreement on one of the basic premises of the conference, namely that fatigue management can be best addressed collaboratively. DOT is seeking industry and labor involvement both to guide the direction and content of its operator-fatigue management program, and to actively participate in the program, as a partner and collaborator, to produce products which will be of direct use to industry and its workers. Success is predicated on close relationship and partnering with industry and labor.

The federal government has a critical role to play in addressing operator fatigue.

Participants stated that government must play a critical role in "providing mechanisms to encourage innovative and new approaches to alertness management and in conducting and funding relevant research activities that will address operational issues." They want the government to be proactive in "telling us what good science is" and helping to translate scientific results into practical strategies to reduce fatigue-related risks.

Participants felt that government can be most constructive if it focuses on producing advisory information and creating incentives for establishing programs. They highlighted the need to ensure the continued viability of commercially marketed fatigue-management programs. Participants also expressed concerns about the results of the partnerships becoming the basis of mandatory programs.

There is a need to develop a common language to discuss fatigue management.

There was much discussion about terminology, in particular the difference between endurance, alertness and fatigue. One speaker made the following distinctions: endurance is having the stamina to "go the distance;" alertness is functioning at a high "mental" level to safely conduct operations; and fatigue is diminished alertness and endurance. The emphasis is on ensuring that operators have the endurance and alertness necessary to perform their jobs safely and effectively.

Participants stressed the need, when talking about fatigue, to focus on systems failure and on systemic causes of problems. Operational errors should be examined in the context of the system.

CURRENT ISSUES/ACTIVITIES/GAPS

There were two panels at the conference: a panel of DOT human-factors program managers who provided an overview of DOT fatigue-management efforts and a panel of labor and industry experts who described industry and labor efforts to address operator fatigue in the maritime, rail, air, trucking, and pipeline industries. Panelists were asked to discuss the fatigue management issues they are grappling with, remedies they have tried, and gaps in their knowledge. Following are some common themes from the presentations and ensuing discussions.

The causes of fatigue are multi-dimensional and interactive and, therefore, the solutions must be multi-dimensional.

Panelists emphasized the need to take a systems approach to fatigue management. In assessing the problem and developing solutions, there is a need to consider the following: the mission and objectives of the organization; individual factors such as sleep management, circadian rhythms, stress, conditions at places of rest (both home and away) age, medical conditions, commuting time; organizational factors such as predictability of work schedules, organizational policies and procedures, schedule of time off, regulatory influence, coordination with union, organizational culture; and environmental factors at the work place and rest facilities such as light levels, noise, vibration, temperature.

Solutions must address all of these areas and be tailored to both individual and organizational needs. For example, successful industry/labor fatigue management programs must accommodate employee pay as well as company profitability concerns.

Fatigue management programs often involve major changes in organizational culture.

Panelists representing labor and industry mentioned that they had learned many lessons in implementing fatigue management programs. Key ingredients for success were commitment and buy-in from senior managers and union officials and involvement of all stakeholders in the effort. Everyone must understand why change is needed and how the changes will work. As one panelist stated, “no buy-in, no success.” Another characteristic of successful programs was “abundant awareness and education for all, including family members.” Panelists thought education should be the “cornerstone” of any change strategy. Education and training are needed to provide employees, their families, and managers with a greater awareness of the problem as well as an understanding of effective actions they can take to reduce fatigue-related risks. Finally, as with all major change efforts, effective fatigue management programs require sufficient resources and support and constant communication on the status and success of the process.

There is a need for more scientific research, both to document the magnitude of the problem and to define practical solutions.

The true extent of operator fatigue is not well documented. Panelists recommended that anonymous incident/accident databases, focusing on each modal or sub-modal segment, be established.

Panelists also cited the need for practical solutions, “things realistic and do-able,” that have a scientific foundation. As one presenter stated, “We need good information on best practices, what really works, no junk science.”

More research is also needed on ways of detecting and measuring fatigue.

Panelists cited the complementary role of technology in addressing operator fatigue and voiced support for further research to evaluate the reliability, validity, and utility of alertness monitoring devices. As one panelist stated, “There is a need for technology that we can use to detect fatigue in operators so action can be taken before incidents occur.”

OFM PRODUCTS/PROCESS

The DOT Human Factors Coordinating Committee described three broad project areas being proposed under the OFM partnership initiative:

- 1) Fatigue Management Reference (FMR): This reference document will help operators and managers of commercial transportation systems proactively manage fatigue in operational settings. The FMR will identify current and emerging “best practices” in fatigue management, discuss the advantages/disadvantages of each practice, describe how to properly implement the practice, and provide procedures to evaluate and measure efficacy of the practice. Field tests will be conducted to evaluate the FMR in operational settings.
- 2) Fatigue Management Analytical Systems: The goal of this task is to investigate existing fatigue-management analytical systems and field test promising system(s) in selected commercial transportation settings. The focus is on systems that can be used for one or more of the following areas: fatigue-risk-assessment profiling; forecasting susceptibility to fatigue among individuals or groups; automated scheduling and staffing analysis; and work/rest schedule optimization. The development of multi-faceted systems oriented models to forecast fatigue will also be explored.
- 3) OFM Program Evaluation Tools and Methods: This task focuses on the development of tools and methods for capturing and collecting long term data on the impacts of fatigue on worker safety, health and behavior and company economics. The objective is to provide the data to establish “business cases” for adopting fatigue management programs in the transportation industry.

DOT also provided information on its Broad Agency Announcement (BAA) process for attracting partnership projects that offer innovative fatigue management solutions. The Department hopes to see BAAs that include labor and industry partnerships and are relevant to at least two transportation modes. The full BAA announcement can be found in the June 16, 2000 edition of the Commerce Business Daily and at the following web site: <http://www.rspa.dot.gov> under Procurement Opportunities. The solicitation number is DTRS56-00-BAA-0007, Operator Fatigue Management Analytic Systems and Technologies to Forecast and Manage Fatigue and Ensure Alertness for Commercial Transportation Operators (Posted June 16, 2000). There are

three amendments: (Amendment 1 posted on August 16, 2000; Amendment 2 posted on August 24, 2000 and Amendment 3 posted on October 31, 2000). The closing date for submitting proposals is December 15, 2000.

Conference participants were asked for their reactions to the proposed OFM products and process. The following is a compilation of their comments.

A Fatigue Management Reference (FMR) would be of immediate value to many throughout the transportation industry.

Participants were overwhelmingly positive about the development of an FMR. They thought the FMR should combine good science and practical implementation strategies. It should provide generalized information as well as specialized information for transportation mode and job type and be scaleable to meet the needs of variously sized organizations.

Participants suggested that the FMR be in a meaningful, easy-to-use, understandable and widely distributable format. Many envisioned an interactive website, available over the Internet through FReDi (Fatigue Resource Directory). The website would provide a central repository for fatigue research.

Participants stressed the need for the FMR to be a living document, updated and maintained on a regular basis. They stated, "Do not tie a bow around it. Realize it will always be a 'work in progress.'"

Participants agreed with the need to field test the FMR in operating industries. There was considerable discussion of whether the FMR should be limited to "proven" practices. The consensus was that limiting the FMR to "empirically validated" practices would be too restrictive. Participants felt it would be useful to include anecdotal information on "what works", but that it was critical to distinguish between the validated and "to be validated practices." They recommended that the FMR note whether a fatigue-management countermeasure has been systematically and objectively evaluated as well as the results of any evaluations. Participants also recommended that the government, as an impartial entity, support and coordinate efforts to establish validation criteria and methodologies.

Finally, participants stressed that the FMR should draw on the wide range of existing research already done, thereby minimizing duplication of effort. A first step would be to collect and review the literature and research fatigue management efforts from all the modes within government, industry and academia.

The development of OFM Program Evaluation Tools would also be a valuable product for labor, industry and government.

Participants thought that research linking fatigue measures with long-term outcomes and documenting the economic effects of intervening as well as the risks of not intervening, would be very valuable to labor, industry and government. If these evaluation tools were based on program outcomes, their utility could go far beyond fatigue management. Participants

recommended developing a broad list of factors to evaluate the cost/benefit aspects of fatigue management systems. They also stressed the need to work with industry partners to identify the relevant economic factors.

Fatigue Management Analytical Systems could be useful in predicting and understanding the impact of different work/rest schedules and other fatigue-related working conditions.

Participants thought that Fatigue Management Analytical Systems could be a useful tool for many modes. They cautioned, however, that the state-of-the-art in this area is not well advanced. In addition, most current Fatigue Management Analytical Systems are proprietary. Participants also noted that if these systems are to be useful, the needs of the intended users must be understood.

The federal government should publicize its current OFM efforts.

Participants thought the government should publicize its current efforts to address operator fatigue. They wanted to learn more about the DOT efforts described at the conference, as well as those of other government agencies, e.g., the National Institute of Health (NIH), the Department of Defense (DOD), the Center for Disease Control (CDC), the Department of Veterans Affairs, the National Transportation Safety Board (NTSB), and the National Aeronautics and Space Administration (NASA).

Partnerships are the critical path for moving forward.

Participants supported the concept of partnerships while indicating a need to ensure that the government BAA process makes effective use of the capabilities of small businesses and academic institutions. They also cited a need for increased financial resources, both start-up capital and funding to sustain the effort.

NEXT STEPS

This conference was the first step in DOT's multi-year research initiative on commercial operator fatigue. Based on the success of this conference, participants recommended follow-up meetings. In the words of one panelist, "First and foremost, we need to continue the type of dialogue and information sharing that this conference is fostering. ... These types of forums help to expand our knowledge of this important safety issue and formulate effective programs and countermeasures." Another panelist noted, "It is our shared responsibility to enhance safety in the transportation system by reducing fatigue-related risks."

The follow-up activities planned by DOT's Human Factors Coordinating Committee include:

- A report describing what DOT is currently doing to address key transportation-related fatigue issues and identifying what work remains to be done.
- Ongoing quarterly or semi-annual public meetings to address specific fatigue-related topics and to publicize BAA activities.

- Development of a ONE DOT strategy for coordinating Department fatigue-related efforts.
- A directory of those engaged in transportation fatigue-related research, to be hosted on the Department of Transportation Fatigue Management and Partnership website (formerly FReDi).
- A compendium of relevant transportation-related fatigue research, measures, and other tools, also available through the DOT website.

BIBLIOGRAPHY

1. U.S. Department of Transportation, “Partnering for Safety.”
2. U.S. Department of Transportation, “Operator Performance-Enhancing Technologies to Improve Safety,” November 1999.
3. U.S. Department of Transportation, “Human Centered Systems – The Next Challenge in Transportation,” June 1999.
4. U.S. Department of Transportation, “DOT Partnership Initiative for Transportation Safety – The Broad Agency Announcement (BAA) (June 16, 2000; August 16, 2000).”

**Partnering for Transportation Safety
Human Centered Systems: Operator Fatigue Management
Sheraton Premiere at Tyson's Corner**

Agenda

August 29: Noon – 7 P.M. August 30: 9 – 5 P.M.

Tuesday

29 August 2000

- 12:00 **REGISTRATION** *JUNIOR BALLROOM FOYER*
- 1:00 **Human Factors Coordinating Council Welcome** *JUNIOR BALLROOM*
Robert M. Clarke, Office of the Assistant Secretary for Transportation Policy
Thomas G. Raslear, Federal Railroad Administration
- DOT Safety Council Welcome**
Eugene A. Conti, Assistant Secretary for Transportation Policy
- Keynote Speech**
Mortimer L. Downey, U.S. Deputy Secretary of Transportation
- Human Centered Program Activities within DOT**
E. Donald Sussman, US DOT Volpe National Transportation Systems Center
- 2:30 **Panel Discussion: Overview of DOT Fatigue Management Efforts**

Chair: Tony Carvalhais, US Coast Guard; Panelists: Carlos Comperatore, USCG;
Mike Copen, Federal Railroad Administration; Ron Simmons, Federal Aviation
Administration; Phyllis Young, Federal Motor Carriers Safety Administration;
Richard Hurliaux, Office of Pipeline Safety; Mark Snider, Federal Transit
Administration
- 2:45 **BREAK** *JUNIOR BALLROOM FOYER*
- 3:00 **Panel Discussion: Overview of DOT Fatigue Management Efforts (cont'd.)**
- 4:45 **Wrap-Up of Day One**

Ron Knipling, Federal Motor Carrier Safety Administration
- 5:00 **RECEPTION** *FIRST FLOOR FOYER*

**Partnering for Transportation Safety
Human Centered Systems: Operator Fatigue Management
Sheraton Premiere at Tysons Corner**

Agenda

August 29: Noon – 7 P.M. August 30: 9 – 5 P.M.

Wednesday

30 August 2000

- 8:00 – 9:30 **CONTINENTAL BREAKFAST** *JUNIOR BALLROOM FOYER*
- 9:00 **Opening Remarks** *JUNIOR BALLROOM*
Tom Raslear, Federal Railroad Administration
- 9:15 **Panel Discussion: Industry/Labor Approaches to Fatigue Management**
Chair: Mike Copen; Panelists: Ed Kelly, American Maritime Officers; Larry Hays, Ingram Barge; Faye Ackermans, Canadian Pacific; Don Bergman, Brotherhood of Locomotive Engineers; Bill Edmunds, Air Line Pilots Association; Al Prest, Air Transport Association; Timothy Lynch, Motor Freight Carriers Association; Lamont Byrd, Teamsters; Patrick Green, Chevron Pipe Line Company
- 10:15 **BREAK** *JUNIOR BALLROOM FOYER*
- 10:30 **Panel Discussion: Industry/Labor Approaches to Fatigue Management (cont'd.)**
Moderator: Ron Simmons, Federal Aviation Administration
- 12:00 **WORKING LUNCH** *JUNIOR BALLROOM FOYER*
- 1:00 **Description of Proposed OFM Products and Process** *JUNIOR*
BALLROOM
Antonio Carvalhais, US Coast Guard; Edward Brigham, Research & Special Programs Administration
- Discussion: Proposed OFM Products and Process**
Group discussion of proposed products and process
- Next Steps**
Robert Clarke, Office of the Assistant Secretary for Transportation Policy

OFFICE FATIGUE MANAGEMENT CONFERENCE

ATTENDEE LIST – AUGUST 29-30, 2000

William J. Abernathy
Captain
Human Element & Ship Design & Engineering
Programs/USCG
Commandant (G-MSE-1) - US Coast Guard
Washington, DC 20593-0001
(202) 267-0864
wabernathy@comdt.uscg.mil

Faye Ackermans
General Manager, Safety & Regulatory Affairs
Canadian Pacific Railroad
401 - 9th Ave., SW Ste. 2000
Calgary, AB T2P4Z4
Faye_Ackermans@CPR.CA

James L. Adams
Assistant Vice President, Public Affairs
American Commercial Lines LLC
1701 E. Market St.
Jeffersonville, IN 47130-4717
(812) 288-1723
jladams@acbl.net

Robert J. Alario
President
Offshore Marine Service Association
990 North Corporate Drive, Suite 210
Harahan, LA 70123
(504) 734-7622
robert@offshoremarine.org

Francisco J. Altamirano
Project Manager
Altamirano Consulting Group, Ltd.
1776 Platte St.
Denver, CO 80202
(303) 964-1390
altamirano@worldnet.att.net

M. Lucila Altamirano
President
Altamirano Consulting Group, Ltd.
1776 Platte Street
Denver, CO 80202
(303) 964-1390
altamirano@worldnet.att.net

John Banda
Supervisor, Operation Control Center
ARCO
5900 Cherry Ave.
Long Beach, CA 90805
(562) 728-2292
ztcjxbb@mail.arco.com

Jerome Barrett
Executive Director
American Academy of Sleep Medicine
6301 Bandel Road
Rochester, MN 55901
(507) 287-6006
jbarrett@aasmnet.org

William L. Barringer
Director Operations Training
Norfolk Southern
110 Franklin Rd., SE
Box 73
Roanoke, VA 24042-0073
(540) 981-5295
wlbarrin@nscorp.com

David H. Barry
Director, ITS & Research Programs
National Private Truck Council
66 Canal Center Plaza, Ste. 600
Alexandria, VA 22032
(703) 683-1300
barry@nptc.org

Richard G. Beadon
Captain
Center for Maritime Education, The Seamen's Church
Institute of NY
241 Water St.
New York, NY 10038
(212) 233-2242

Don Bergman
Brotherhood of Locomotive Engineers
4286 N. Avenida De Pimeria Alta
Tucson, AZ 85749
(520) 760-0855
berg226@flash.net

Ida M. Binder
Safety Officer
Washington Metropolitan Area Transit Authority
600 Fifth St., NW
Washington, DC 20001
(202) 962-1023
mbinder@wmata.com

Jesse Blatt
Senior Research Psychologist
National Highway Traffic Safety Administration
400 Seventh St., SW
RM 6240
Washington, DC 20590
(202) 366-5588
jblatt@nhtsa.dot.gov

Robert N. Boja
Senior Director, Flight Operations
Airborne Express
145 Hunter Drive
Wilmington, OH 45177
(937) 382-5591
bob.boja@airborne.com

Galen C. Bosley
Senior Scientist
JIL Information Systems
Capital Gallery, Ste. 303W
600 Maryland Ave., SW
Washington, DC 20024
(202) 863-2680
gbosley@jil.com

Terry D. Boss
VP, Environmental, Safety & Operations
Interstate Natural Gas Association of America
10 G St., NE - Ste. 700
Washington, DC 20002
(202) 216-5930
tboss@ingaa.org

Rebecca M. Brewster
Deputy Director
ATA Foundation
1280 W. Peachtree St., Ste. 300
Atlanta, GA 30309
(404) 873-1201
rbrewster@trucking.org

Edward A. Brigham
Acting Assoc. Admin. for Innovation, Research, &
Education
Research & Special Programs Administration
US DOT
400 Seventh St., SW
RM 8417
Washington, DC 20590
(202) 366-4434
edward.brigham@rspa.dot.gov

Mark R. Buese
Senior Vice President
Kirby Corporation
PO Box 1745
Houston, TX 77251
(713) 435-1108
mark.buese@kmtc.com

LaMont Byrd
Director of Safety & Health
International Brotherhood of Teamsters
25 Louisiana Avenue, NW
Washington, DC 20001
(202) 624-6960
lbyrd@teamster.org

Scott R. Calhoun
Lieutenant
USCG
Commandant (G-MSE-1)
2100 Second St., SW
Washington, DC 20593
(202) 267-0172
scalhoun@comdt.uscg.mil

Vincent Cantwell
Director of Research and Development
The Maritime Institute of Technology & Graduate
Studies
5700 Hammonds Ferry Road
Linthicum Heights, MD 21090
(410) 859-5700
vincent@mitags.org

Robert J. Carroll
Transportation Specialist
FMCSA / US DOT
400 Seventh St., SW
Washington, DC 20590
(202) 366-9109
robert.carroll@fhwa.dot.gov

Antonio B. Carvalhais
Human Factors Program Analyst
US Coast Guard
2100 2nd st., SW
Washington, DC 20593
(202) 267-2244
acarvalhais@comdt.uscg.mil

Kelly S. Christensen
Associate Dean of Instruction
Central Community College
PO Box 1024
East Highway Six
Hastings, NE 68902
(402) 461-2558
kchristensen@cccneb.edu

Robert M. Clarke
Safety & Health Team Leader
OPD/OSTP US DOT
700 D St., SW
Washington, DC 20590
(202) 366-2916
bob.clarke@ost.dot.gov

Thomas G. Coleman
Operations Research Manager
Battelle
222 Third St., Ste. 3100
Cambridge, MA 02142
(617) 577-7254
colemant@battelle.org

Carlos Comperatore
Research Psychologist
USCG Research & Development Cntr.
1082 Shennecossett Drive
Groton, CT 06340
(860) 441-2751
ccomperatore@rdc.uscg.mil

Eugene Conti
USDOT
Washington, DC

Graham Cooper
Senior Vice President
Canadian Trucking Alliance
130 Slater St., Ste. 1025
Ottawa, ON K1P 6E2
(613) 236-9426
cooper@cantruck.com

Michael K. Coplen
Human Factors Program Manager
Federal Railroad Administration
1120 Vermont Ave., NW
M/S 20
Washington, DC 20590
(202) 493-6346
michael.coplen@fra.dot.gov

Joseph J. Cox
President
Chamber of Shipping of America
1730 M Street, NW Ste. 407
Washington, DC 20036
(202) 775-4399
joejcox@msn.com

Mark S. Crabtree
Director of Business Development
NTI, Inc.
4130 Linden Ave., Ste. 235
Dayton, OH 45432
(937) 254-3171
mark2870@infinet.com

Fredericka Cuenca
Assistant Director, Policy Division
Metropolitan Transportation Authority
347 Madison Ave.
New York, NY 10017
(212) 878-7228
fcuenca@mtahq.org

Kimberly Denbow
Manager of Engineering Services
American Gas Association
400 N. Capitol St., NW
Washington, DC 20001
(202) 824-7334
kdenbow@aga.org

David R. Desaulniers
Human Factors Analyst
US Nuclear Regulatory Commission
MS 06 D17
Washington, DC 20555
(301) 415-1043
drd@nrc.gov

Charles Dettmann
Executive VP - Safety & Operations
Association of American Railroads
50 F St., NW
Washington, DC 20001
(202) 639-2200
cdettmann@aar.org

Nancy Dimodica
OSTP/DOT
Washington, DC

Gerald Donaldson
Senior Research Director
Advocates for Highway & Auto Safety
750 First St., NE
Suite 901
Washington, DC 20002
(202) 408-1711
jdonaldson@saferoads.org

Mortimer L. Downey
Deputy Secretary of Transportation
US Department of Transportation
400 Seventh St., SW
Washington, DC 20590

Darrel R. Drobnich
Director, Government & Transportation Affairs
National Sleep Foundation
1522 K Street, NW
Ste. 500
Washington, DC 20009
(202) 347-3471
ddrobnich@sleepfoundation.org

Robert G. Drummer
Vice President, Govt. Affairs & General Counsel
American Moving & Storage Association
1611 Duke St.
Alexandria, VA 22314
(703) 683-7410
rdrummer@moving.org

Glenn R. Dubin
Research Associate
The Urban Institute
2100 M Street, NW
Washington, DC 20037
(202) 261-5820
gdubin@ui.urban.org

John J. Dumbleton
President
Nautical Innovations
5606 Kings Park Dr.
Springfield, VA 22151
(703) 978-7627
jdumble@zzapp.org

Bill Edmunds
Senior Human Performance Specialist
Air Line Pilots Association
535 Herndon Pkwy/PO Box 1169
Herndon, VA 20172
(703) 689-4198
edmundsb@alpa.org

Gabe Farra
Assistant VP, Safety/Service Program
CSX Transportation
500 Water St., J312
Jacksonville, FL 32202
(904) 359-7577
gabe_farra@csx.com

Stephanie Faul
Communications Director
AAA Foundation for Traffic Safety
1440 New York Ave., Ste. 201
Washington, DC 20005
(202) 638-5944
steph@aaafits.org

Daniel D. Filiatrault
Collision Reconstruction Specialist
BC SMART-Insurance Corp. British Columbia
151 West Esplanade
North Vancouver, BC V7M3H9
(604) 648-7154
6042308449

Michael L. Fineberg
Chief Scientist, Human Sys. Information Analysis Ctr.
Booz, Allen & Hamilton, Inc.
3190 Fairview Park Dr.
Falls Church, VA 22042
(703) 289-5120
fineberg_michael@bah.com

Deborah M. Freund
Senior Transportation Specialist
Federal Motor Carrier Safety Administration / US DOT
400 Seventh St., SW
Room 3107, MC-PSV
Washington, DC 20590-0001
(202) 366-5541
deborah.freund@fhwa.dot.gov

Paul Gatley
Director, Man Power Utilization / Crew Management
Facility
AMTRAK
15 South Poplar St.
Wilmington, DE 19801
(302) 683-2277
gatleyp@amtrak.com

Brian Goldiez
Deputy Director, Inst. For Simulation & Training
University of Central Florida
3280 Progress Drive
Orlando, FL 32826-5059
(407) 658-5000
bgoldiez@ist.ucf.edu

Gary A. Golembiewski
Sr. Research Associate
The Scientex Corporation
2000 14th St., North
Arlington, VA 22201
(703) 247-4572
ggolembiewski@scientexcorp.com

Richard J. Goodhart
Chairman & CEO
Accident Prevention Plus, Inc.
325 Wireless Blvd.
Hauppauge, NY 11788
(631) 360-0600
rgoodhart@applus.com

Clare Goodman
Sr. Human Factors Specialist
US Nuclear Regulatory Commission
J: 06D17A
Washington, DC 20555
(301) 415-1047
cpg@nrc.gov

Martha Grabowski
Professor
LeMoyne College, Rensselaer Polytechnic Inst.
5555 Mt. Pleasant
Lazenovia, NY 13035
(518) 276-2954
grabowsk@maple.lemoyne.edu

Richard Grace
Carnegie Mellon Robotics Institute
PA
(412) 681-7159
rgrace@rec.ri.cmu.edu

Patrick T. Green
Operation Specialist
Chevron Pipe Line Co.
2811 Hayes Road
Houston, TX 77082-2642
(281) 596-2804
ptgr@chevron.com

Walter E. Hanson
Risk/Reliability Engineer
EQE International, Inc. (an ABS Group Co.)
1000 Technology Drive
Knoxville, TN 37932-3353
(865) 671-5828
whanson@eqe.com

Michael D. Hartley
Community Planner
Office of Pipeline Safety/RSPA
400 Seventh St., SW
DPS-11
Washington, DC 20590
(202) 366-3058
mike.hartley@rspa.dot.gov

Katherine Hartman
Transportation Specialist
Federal Motor Carrier Safety Administration
400 Seventh St., SW
MC-RTT, RM 3419
Washington, DC 20590
(202) 366-2742
kate.hartman@fhwa.dot.gov

Lawrence P. Hays
AVP - Claims
Ingram Barge Company
PO Box 23049
Nashville, TN 37202
(615) 298-8216
haysl@ingrambarge.com

Patrick J. Healy
Manager, State Program Development
National Safety Council
Nine Belden Drive
Westfield, MA 01085
(413) 562-4871
patrhealy@aol.com

Dennis W. Holland
Director - Alertness Management
Union Pacific Railroad
1416 Dodge St., RM 800
Omaha, NE 68179
(402) 271-4155
dwhollan@notes.up.com

Fran Hooper
Director, Business Member & Commuter Rail Support
Services
American Public Transportation Association
1201 New York Avenue, NW
Washington, DC 20005-3917
(202) 898-4076
fhooper@apta.com

Frances Hooper
Association of American Railroads
50 F Street, NW
Washington, DC 20001

Richard D. Huriaux
Manager of Regulations
Office of Pipeline Safety/RSPA
400 Seventh St., SW
Room 7128
Washington, DC 20590
(202) 366-4565

Steven R. Hursh
Program Manager, Biomedical Modeling
S.A.I.C.
626 Towne Center Drive, Ste. 301
Joppa, MD 21085
(410) 538-2901
hurshs@saic.com

Stephen M. Jenner
Human Factors Investigator
National Transportation Safety Board
490 L'Enfant Plaza East, SW
Washington, DC 20594
(202) 314-6416
Jenners@ntsb.gov

David H. Kasminoff
Trial Attorney
FRA / DOT
Office of Chief Counsel
Washington, DC 20590
(202) 493-6043
david.kasminoff@fra.dot.gov

A. Scott Kaye
Coordinator, Safety Assurance & Compliance
Program
Federal Railroad Administration
1120 Vermont Ave., NW
Washington, DC 20590
(202) 493-6303
scott.kaye@fra.dot.gov

Ed Kelly
Captain
American Maritime Officers
815 16th St., NW
Washington, DC 20006
(202) 479-1166
evkamo@erols.com

Jennifer Kelly
Senior VP
American Waterways
(703) 841-9300
jkelly@vesselalliance.com

William C. Keppen
Fatigue Management Coordinator
Burlington Northern Santa Fe
1603 Honeysuckle Ridge Ct.
Annapolis, MD 21401
(410) 573-9093
bkeppen@msn.com

Dennis L. Kershner
Director, Transportation Program Dev. Office
APL / Johns Hopkins University
11100 Johns Hopkins Rd.
Laurel, MD 20723
(240) 228-6512
dennis.kershner@jhuapl.edu

Lee A. Kincaid
Assistant Director
M.E.B.A. Engineering School
27050 St. Michaels Road
Easton, MD 21601-7550
(410) 822-5228
mebalee@aol.com

Leonard Kingsley
Operations Research Analyst
USCG Research & Development
1082 Shennecossett Drive
Groton, CT 06340
(860) 441-2616
lkingsley@rdc.uscg.mil

Al Kirby
Physiologist
Battelle
701 Windsor Trace
Enterprise, AL 36330
(334) 393-1810
kirbya@battelle.org

Ronald R. Knipling
Chief of Research Division
FMCSA / US DOT
400 Seventh St., SW
Washington, DC 20590
(202) 366-2981
ron.knipling@fhwa.dot.gov

Gerald P. Krueger
Research Psychologist
The Wexford Group International
4105 Komes Court
Alexandria, VA 22306-1252
(703) 704-1801
jerrykrueg@aol.com

JoAnn Kuchak
Senior Vice President
ORC MACRO
11785 Beltsville Drive
Calverton, MD 20705
(301) 572-0269
kuchak@macroint.com

Charles Kurz
Vice President
Keystone Shipping Co.
One Bala Plaza East, Ste. 600
Bala Cynwyd, PA 19004-1496
(610) 617-6836
ckii@keyship.com

Susan N. Labin
Evaluation Consultant
ORC MACRO
8517 Rayburn Rd.
Bethesda, MD 20817
(301) 564-0764
slabin@iname.com

George Lamb
Director of Software Architecture
iThink Technologies, Inc.
2818 Summerfield Road
Falls Church, VA 22042
(703) 538-5767
george@ithinktech.com

Alexander C. Landsburg
Coordinator of Research & Development
Maritime Administration
MAR-130, RM 7302
Washington, DC 20590
(202) 366-1923
alex.landsburg@marad.dot.gov

Paul Lewis
Human Factors Analyst
US Nuclear Regulatory Commission
T.10.F13A
Washington, DC 20555
(301) 415-6767
pml1@nrc.gov

Paula J. Lina
Associate Medical Director
Norfolk Southern Corporation
Three Commercial Place
Medical Services
Norfolk, VA 23510-9202
(757) 629-2446
pjlina@nscorp.com

Robert Llaneras
Research Scientist
WESTAT
1650 Research Blvd.
Rockville, MD 20850
(301) 315-5953
llanere1@westat.com

Timothy P. Lynch
President & CEO
Motor Freight Carriers Association
499 S. Capitol St., SW
#502A
Washington, DC 20003
(202) 554-3060
tlynch@motor-freight.com

William F. Mahorney
Director, Safety & Regulatory Programs
American Bus Association
1100 New York Ave., NW
Washington, DC 20005
(202) 218-7246
wmahorney@buses.org

Melissa Mallis
Principal Investigator
NASA Ames Research Center
MS-262-4
Human Factors Research & Tech. Div./Systems
Safety
Moffett Field, CA 94035-1000
(650) 604-3654
mmallis@mail.arc.nasa.gov

James D. Mangie
Captain
Delta Air Lines
320 Brown's Crossing Dr.
Fayetteville, GA 30215
(404) 715-1004
jim.mangie@delta-air.com

J.L. Mattingly
BRS-IVP
Brotherhood of Railroad Signalmen
400 Contessa LN
Trenton, KY 42286
(270) 466-0405
jlm@inetmail.att.net

Marvin McCallum
Research Leader
Battelle Human Factors Transportation Center
4500 Sand Point Way, NE
Seattle, WA 98105-0395
(206) 528-3242
mccallum@battelle.org

James T. McKenna
Executive Director
Aviation Safety Alliance
1301 Pennsylvania Ave., NW
Washington, DC 20004
(202) 626-4170
jmckenna@aviationsafetyalliance.org

Mayte Medina-Darr
Human Element & Ship Design, & Engineering
Standards
US Coast Guard
Commandant (G-MSE-1) US Coast Guard
2100 Second St., NW
Washington, DC 20593-0001
(202) 267-0173
mmedina@comdt.uscg.mil

Gerard Meyer
President & CEO
Carnegie Mellon Driver Training & Safety Institute
832 Airport Road
Lemont Furnace, PA 15456
(724) 620-9870
gerard@andrew.cmu.edu

Ken C. Mills
Scientific Director
Southpeak Interactive
One Research Drive
Cary, NC 27513
(919) 677-4499
ken.mills@southpeak.com

Gary Miron
Principal Research Associate
Western Michigan University
The Evaluation Center
401 B Ellsworth Hall
Kalamazoo, MI 49008-5178
(616) 387-3771
gary.miron@wmich.edu

Merrill M. Mitler
Professor
The Scripps Research Institute
9834 Genesee Ave.
Suite 328
La Jolla, CA 92037
(858) 457-4233
mitler@scripps.edu

Dennis S. Mogan
Director of Safety & Rules
METRA
547 W. Jackson
Chicago, IL 60661
(312) 322-2810
safety@metrarr.com

Jeffrey F. Moller
Director - Casualty Prevention
American Association of Railroads
50 F St., NW
Washington, DC 20001
(202) 639-2375
jmoller@aar.org

Robert J. Molloy
National Transportation Research Board
490 L'Enfant Plaza East, SW
Office of Research Engineering
Washington, DC 20594
(202) 314-6516
molloyr@ntsb.gov

Martin Moore-Ede
CEO
Circadian Technologies
125 Cambridge Park Drive
Cambridge, MA 02140
(617) 492-5060
mme#circadian.com

Curtis Morgan
Engineering Research Associate
Texas Transportation Institute/TX A&M Univ.
Rail Research Center, 3135 TAMUS
College Station, TX 77843-3135
(979) 845-5817
c-morgan@ttimail.tamu.edu

Mark Mulugeta
Chief of Staff & Senior Advisor
Federal Railroad Administration
1120 Vermont Ave., NW
Washington, DC 20590-0001
(202) 493-6017
mark.mulugata@fra.dot.gov

Rick Narvell
Human Performance Investigator
National Transportation Safety Board
490 L'Enfant Plaza East, SW
Washington, DC 20594
(202) 314-6422
narvelr@ntsb.gov

Vicki L. Neale
Research Scientist
Virginia Tech Transportation Institute
3500 Transportation Research Plaza
Blacksburg, VA 24061-0536
(540) 231-1514
vneale@ctr.vt.edu

Lawrence H. O'Toole
President
District No. 1-PCD, MEBA, AFL-CIO
444 North Capitol St., NW
Suite 800
Washington, DC 20001
(202) 624-1658
10toole@dlmeba.org

Dave Osiecki
Vice President, Safety & Operations Department
American Trucking Associations, Inc.
2200 Mill Road
Alexandria, VA 22314
(703) 838-1847

David J. Owen
President
National Association of Small Trucking Companies
104 Stuart Drive
Hendersonville, TN 37075
(615) 451-4555

Richard F. Pain
Dr.
Transportation Research Board
2101 Constitution Ave., NW
Washington, DC 20418
(202) 334-2964
rpain@nas.edu

Glen Paine
Executive Director
The Maritime Institute of Technology & Graduate
Studies
5700 Hammonds Ferry Road
Linthicum Heights, MD 21090
(410) 859-5700
gpaine@mitags.org

Michael Paley
Aptima - Suite 400
1030 15th St., NW
Washington, DC 20005

Gerard C. Pannell
Captain
STAR Center
Two West Dixie Highway
Dania Beach, FL 33004
(800) 348-6515
jpannell@star-center.com

Kenneth B. Parris
Director, Regulatory Affairs
Offshore Marine Service Association
990 North Corporate Drive, Suite 210
Harahan, LA 70123
(504) 734-7622
ken@offshoremarine.org

Oliver Patton
Heavy Duty Trucking Magazine

Julius Persensky
Team Leader - Human Factors
US Nuclear Regulatory Commission
T-10F13A
Washington, DC 20555
(301) 415-6759
jjp2@nrc.gov

Michael J. Pianka
Chief Scientist
Spectrum Sciences, Inc.
44425 Airport Road, Suite 160
California, MD 20619
(301) 862-1993
mpianka@spectrumsciences.com

Gary Piersall
Control Center Supervisor
Phillips Pipe Line Company
252 I A.B.
Bartlesville, OK 74004
(918) 662-6098
gpiers@ppco.com

Charles R. Pillsbury
Captain
Mitags
700 Maritime Blvd.
Linthicum, MD 21090
(410) 850-8700
mitagscp@mail.bcpl.net

Mary B. Plache
Economist
Federal Railroad Administration
1120 Vermont Ave., NW Ste. 7000
Washington, DC 20590
(202) 493-6297
mary.plache@fra.dot.gov

Richard M. Plant
Director of Special Projects
IOMM&P
700 Maritime Blvd.
Linthicum, MD 21090
(410) 850-8700
rplant@bridgedeck.org

John K. Pollard
Project Manager
US DOT Volpe Center
55 Broadway -- DTS-79
Cambridge, MA 02142
(617) 494-3537
pollard@volpe.dot.gov

Stephen M. Popkin
Engineering Psychologist
US DOT Volpe Center
55 Broadway
DTS-79
Cambridge, MA 02142
(617) 494-3532
popkin@volpe.dot.gov

Albert H. Prest
Vice President, Operations
Air Transport Association of American
1301 Pennsylvania Ave., NW
Ste. 1100
Washington, DC 20004
(202) 626-4015
aprest@air-transport.org

Don Pulciana
Director, Operation & Emergency Preparedness
Transport Canada - Rail Safety
Place De Ville Tower, Flr. 10C
330 Spark St.
Ottawa, ONTARI K1A0N5
(613) 990-8690

Kevin E. Quinlan
Chief, Safety Advocacy Division
National Transportation Safety Board
4909 L'Enfant Plaza East, SW SR-30
Washington, DC 20594
(202) 314-6175
quinlak@ntsb.gov

A. Essam Radwan
CEE Professor & Chair; CATSS Director
CATSS Dept. - University of Central Florida
PO Box 162450
ENGR 207
Orlando, FL 32816-2450
(407) 823-2945
aeradwan@mail.ucf.edu

Thomas Raslear
Federal Railroad Administration
Washington, DC

Paul S. Rau
Engineering Research Psychologist
National Highway Traffic Safety Administration, R&D
400 7th Street, SW
Washington, DC 20590
(202) 366-0418
prau@nhtsa.dot.gov

Matthew B. Reilly
Executive Director
American Short Line Railroad
1120 G Street
Washington, DC 20005
(202) 628-4500
mreilly@aslrra.org

Stephen J. Reinach
Project Engineer
Foster-Miller, Inc.
350 Second Avenue
Waltham, MA 02451
(781) 684-4259
sreinach@foster-miller.com

Dennis E. Richling
AVP - Health Services
Union Pacific Railroad
1416 Dodge St., Room 908
Omaha, NE 68179
(402) 271-4326
derichli@notes.up.com

Todd L. Ripley
Maritime Administrator
400 Seventh St., SW
MAR-SOC.2/RM 8114
Washington, DC 20590
(202) 366-2625
todd.ripley@marad.dot.gov

Ron W. Robusto
Sr. Director, Crew Management Services
AMTRAK
15 S. Poplar St.
Wilmington, DE 19801
(302) 683-2283
robustor4@amtrak.com

Danielle E. Roeber
Evaluator
Office of Inspector General / US DOT
400 Seventh St., SW
Room 9201
Washington, DC 20590
(202) 366-9298
danielle.e.roeber@oig.dot.gov

William C. Rogers
Vice President, Safety, Training & Technology
Motor Freight Carriers Association
499 S. Capitol St., SW
Washington, DC 20003
(202) 554-3060
brogers@motor-freight.com

Roger R. Rosa
Senior Scientist
National Inst. For Occupational Safety & Health
200 Independence Ave., SW
Humphrey Bldg., RM 715-H
Washington, DC 20201
(202) 205-7856
rrosa@cdc.gov

Douglas B. Rosenthal
President
Job Performance Systems, Inc.
1240 North Pitt Street, Ste. 200
Alexandria, VA 22314
(703) 799-3652
drosenthal@jps.usa.com

Larry E. Rouvelas
Executive VP
PMI, Inc.
5951 Halpine Road
Rockville, MD 20851
(301) 816-9212
lrouvelas@pmifit.com

Eric B. Sager
Sr. Human Performance Investigator
National Transportation Safety Board
490 L'Enfant Plaza East, SW
Washington, DC 20594
(202) 314-6423
sagere@ntsb.gov

Nilanjan Sakar
Assistant Professor
Vanderbilt University
Dept. of Mechanical Engineering
Box 1592, Station B
Nashville, TN 37235
(615) 343-7219
nilanjan.sakar@vanderbilt.edu

Carl E. Schaefer
North East Regional Manager
Sonar Safety Systems
Seven Wilderness Run Court
Mt. Laurel, NJ 08054
(856) 866-7406
carlschaefer@tanhay.com

Donald C. Scott
General Manager, Operations Standards &
Compliance/System General Road Foreman
AMTRAK
One High Speed Way
Amtrak Training Center
Wilmington, DE 19801
(302) 429-2415
scottd@amtrak.com

Henry E. Seaton
General Counsel - Regulatory Affairs
National Assn. Of Small Trucking Companies
2240 Gallows Road
Vienna, VA 22182
(703) 573-0700
heseaton@aol.com

Jack A. Selter
Associate Director, Center for Advanced Transp.
Systems Simulation
College of Engineering / University of Central Florida
PO Box 16245 -- Engr 207
Orlando, FL 32862
(407) 823-2945
jselter@mail.ucf.edu

Patrick Sherry
Associate Professor
Transportation Instit.-U. of Denver
Denver, CO
(303) 871-2495
psherry@du.edu

John Siebert
Project Manager
00IDA Foundation
311 R.D. Mize Rd.
Grain Valley, MO 64029
(816) 229-5791
jsiebert@ooida.com

Ronald Simmons
Scientific & Technical Advisor for Human Factors
Federal Aviation Administration
800 Independence Ave., SW
AAR-100 RM 907A
Washington, DC 20591
(202) 267-7058
ronald.simmons@faa.gov

Mark A. Snider
Program Manager, Drug & Alcohol
Federal Transit Administration

Jay Sorah
Federal Railroad Administration

David G. Sprankle
Director of Risk Management
Canadian National/Illinois Central Railroad
17641 South Ashland Ave.
Homewood, IL 60430-1345
(708) 206-6782
dave.sprankle@cn.ca

Mary D. Stearns
US DOT Volpe Center / RSPA
55 Broadway
DTS-79 / 4th flr.
Cambridge, MA 02142
(617) 494-2617
stearns@volpe.dot.gov

Robert I. Stein
Office of the Secretary/US DOT
400 Seventh St.
Washington, DC 20590
(202) 366-4846

Soraya R. Stevens
Senior Scientist
BBN Technologies
Ten Moulton St.
Cambridge, MA 02138
(617) 873-2681
sstevens@bbn.com

Don Sussman
Chief, Operator Performance & Safety Analysis
Division
US DOT Volpe Center / RSPA
55 Broadway
DTS-49; 4th flr.
Cambridge, MA 02142
(617) 494-2413
sussman@volpe.dot.gov

Donald Tepas
Connecticut Transportation Inst./U. CT
179 Middle Turnpike
Box U-5202
Storrs, CT 06269-5202
(860) 486-5928

K. Thirumalai
Chief Engineer
RSPA/US DOT
400 7th St., SW
Washington, DC 20590-0001
(202) 366-4434
k.thirumalai@rspa.dot.gov

Michael J. Twery
Acting Director, National Center on Sleep Disorders
Research, Natl. Heart, Lung & Blood Inst./NIH
National Institutes of Health
Two Rockledge Centre
6701 Rockledge Drive, Ste 10038, MSC 7920
Bethesda, MD 20892-7920
(301) 435-0199
twery@nih.gov

Debra Urzi
Senior Human Factors Engineer
Booz, Allen & Hamilton, Inc.
4141 Colonel Glenn Hwy.
Suite 131
Dayton, OH 45431
(937) 255-3700
debra.urzi@wpafb.af.mil

Jerry Wachtel
Senior Engineering Psychologist
US Nuclear Regulatory Commission
T-10-F13A
Washington, DC 20555
(301) 415-6498
jxw4@nrc.gov

John Ward
Manager
AMTRAK
AMTRAK Training Center
One High Speed Way
Wilmington, DE 19801
(302) 429-2414

Elaine B. Weinstein
Deputy Director for Operations
National Transportation Safety Board
490 L'Enfant Plaza East, SW
Washington, DC 20594
(202) 314-6170
weinste@ntsb.gov

Daniel Westra
Director of Research
DTSI/Carnegie Mellon
PA

David White
HSE District Coordinator
BP Amoco / North American Pipeline Business Unit
4502 E. 41st Street
Tulsa, OK 74135
(918) 660-4363
whitedk@bp.com

Walter W. Wierwille
Senior Transportation Fellow & Leader, Safety & HF
Eng. Group
Virginia Tech Transportation Institute
3500 Transportation Research Plaza (0536)
Blacksburg, VA 24061
(540) 231-1543
waltw@vt.edu

Phyllis E. Young
Director, Office of Research & Technology
Federal Motor Carrier Safety Administration
400 Seventh St., SW
US Department of Transportation
Washington, DC 20590
(202) 366-2952
phyllis.young@fhwa.dot.gov

Sophia Zanakos
Research Analyst
ORC MACRO

U.S. DOT HUMAN FACTORS COORDINATING COMMITTEE
MEMBERSHIP
(8/17/00)

- FRA Thomas G. Raslear, Ph.D. Chair
Engineering Psychologist
Senior Human Factors Program Manager, RDV-32
Office of Research and Development, Mail Stop 20
Federal Railroad Administration
1120 Vermont Ave., NW
Washington, DC 20590
V. 202-493-6356 F. 202-493-6333
Thomas.Raslear@fra.dot.gov
- FAA Mark D. Rodgers
Chief Scientific and Technical Advisor for Human Factors, AAR-100
Federal Aviation Administration
800 Independence Ave., SW
Washington, DC 20591
V. 202-493-4611 F 202-267-5797
Mark.Rodgers@faa.gov
- Ronald Simmons (Alternate)
Office of the Chief Scientific Advisor for Human Factors, AAR-100
Federal Aviation Administration
800 Independence Ave., SW
Washington, DC 20591
V. 202-267-7058 F. 202-267-5797
Ronald.Simmons@faa.gov
- FHWA Thomas M. Granda
Traffic Safety Division Human Centered Systems, HRDS-07
Office of Safety, Research and Development
Federal Highway Administration
Turner-Fairbank Highway Research Center
6300 Georgetown Pike
McLean, VA 22101-2296
V. 202-493-3365 F. 202-493-3374
thomas.granda@fhwa.dot.gov

FMCSA Robert J. Carroll
FMCSA-Office of Research and Technology
MC-RTR
U.S. Department of Transportation
400 7th St., SW
Washington, DC 20590-0001
V: 202 366-9109, F: 202 366-8842
robert.carroll@fhwa.dot.gov

Jerry Robin (alternate)
FMCSA, MC-RTR
Nassif Building, Room 3107
400 7th St., SW
Washington, DC 20590
Tel. 202-366-4003 Fax 202-366-8842
V. 202-366-2985, F. 202-366-8842
jerry.robins@fhwa.dot.gov

FTA Amy Jernigan
Office of Safety and Security, TPM-30
Federal Transit Administration
Nassif Building, Room 9301
400 7th St., SW
Washington, DC 20590
V. 202-366-6475 F. 202-366-7951
Amy.Jernigan@fta.dot.gov

MARAD Alexander Landsburg,
Program Manager
Systems Safety and Human Factors, MAR 250
Office of Maritime Labor, Training and Safety
Maritime Administration
Nassif Building, Room 7328
400 7th St., SW
Washington, DC 20590
V. 202-366-1923 F. 202-493-2288
alex.landsburg@marad.dot.gov

NHTSA Michael Goodman
USDOT/NHTSA/NRD50
Nassif Building, Room 6220,
400 7th St., SW
Washington, DC 20590
V. 202-366-5677 F. 202-366-7237
mike.goodman@nhtsa.dot.gov

OST Robert M. Clarke
Chief, Safety Division, P-13
Office of Environment, Energy and Safety
Office of the Assistant Secretary for Policy
Nassif Building, Room 9222,
400 7th St., SW
Washington, DC 20590
V. 202-366-6167 F. 202-366-7618
bob.clarke@ost.dot.gov

RSPA Norman G. Paulhus
Senior Technical Advisor
Office of Research Policy and Technology Sharing, DRT-1
Research and Special Programs Administration
Nassif Building, Room 8417,
400 7th St., SW
Washington, DC 20590
V. 202-366-4208 F. 202-366-3272
norm.paulhusn@rspa.dot.gov

USCG Antonio Carvalhais
United States Coast Guard
Office of Safety and Environmental Health (G-WKS)
2100 2nd St., SW
Washington, DC 20593
V. 202-267-2244 F. 202-267-4355
acarvalhais@comdt.uscg.mil

EXECUTIVE AGENTS

VNTSC E. Donald Sussman
Chief, Operator Performance and Safety Analysis Division, DTS-79
Volpe National Transportation Systems Center
55 Broadway
Cambridge, MA 02142
V. 617-494-2413 F. 617-494-3622
sussman@volpe.dot.gov

VNTSC Mary D. Stearns
Operator Performance and Safety Analysis Division, DTS-79
Volpe National Transportation Systems Center
55 Broadway
Cambridge, MA 02142
V. 617-494-2617 F. 617-494-3622
stearns@volpe.dot.gov

AFFILIATES

- FAA Pam Della Rocco
Federal Aviation Administration
800 Independence Ave., SW
Washington, DC 20591
V. 405-954-6833 F. 405-
Pam.Dellarocco@faa.dot.gov
- Eleana Edens
Federal Aviation Administration
800 Independence Ave., SW
Washington, DC 20591
V. 202-267-7867 F. 202-267-5797
Eleana.Edens@faa.dot.gov
- FHWA/JPO Raymond J. Resendes
HVH-1
Nassif Building, Room 3416
400 7th St., SW
Washington, DC 20590
V. 202-366-2182 F. 202 366-
raymond.resendes@fhwa.dot.gov
- FHWA Elizabeth Alicandri
Transportation Specialist
FHWA, Office of Safety, HAS-1
4007th St., SW, Room 3407
Washington, DC 20590
V. 202-366-3409 F. 202-366-2249
beth.alicandri@fhwa.dot.gov
- FMCSA Deborah M. Freund
FMCSA - Vehicle & Roadside Ops. Div.
400 7th St., SW, Room 3107
Washington, DC 20590-0001
V. 202-366-5541 F. 202-366-8842
deborah.freund@fhwa.dot.gov
- Ronald Knipling
FMCSA, MC-RTR
Nassif Building, Room 3107
400 7th St., SW
Washington, DC 20590
Tel. 202-366-4003 Fax 202-366-8842

FRA

ron.knipling@fhwa.dot.gov

Michael K. Coplen
Human Factors Program Manager, RDV-32
Office of Research and Development, Mail Stop 20
Federal Railroad Administration
1120 Vermont Ave., NW
Washington, DC 20590
V. 202-493-6346 F. 202-493-6333
Michael.Coplen@fra.dot.gov

John F. Murphy
Chief, Special Projects Division, RRP-12
Federal Railroad Administration
400 7th St., SW Mail Stop 20
Washington, DC 20590
Physical Address: 1120 Vermont Ave., NW, Room 6143
V. 202-493-6403 F. 202-493-6333
john.murphy@fra.dot.gov

David Kasminoff
Chief, Special Projects Division
RRP-12, Federal Railroad Administration
400 7th St., SW, Mail Stop 20
Washington, DC 20590
Physical Address: 1120 Vermont Ave., NW, Room 6143
V. 202-493-6043 F. 202-493-6068
David.Kasminoff@fra.dot.gov

NHTSA

Jesse Blatt
Office of Research & Traffic Records
NHTSA, NTS-30, Room 6240
400 7th St. SW
Washington, DC 20590
V. 202-366-5588 F. 202-366-7096
jblatt@nhtsa.dot.gov

Mike Perel
NRD-13, NHTSA
Nassif Building, Room 6220
400 7th St., SW
Washington, DC 20590
V. 202-366-5675 F. 202-366-7237
mike.perel@nhtsa.dot.gov

Paul Rau
National Highway Traffic Safety Administration, NRD-13
Nassif Building, Room 6220,
400 7th St., SW
Washington, DC 20590
V. 202-366-0418 F. 202 366-7237
paul.rau@nhtsa.dot.gov

Michael F. Smith
Research Psychologist
NHTSA, NTS-30
Nassif Building, Room 5125
400 7th St. SW
Washington, DC 20590
V.202.366.5598 F.202.366.7096
michael.smith@nhtsa.dot.gov

OST
Donald Trilling
Director, Office of Environment, Energy and Safety, P-10
Office of the Assistant Secretary for Policy
Nassif Building, Room 9222
400 7th St., SW
Washington, DC 20590
V. 202-366-4220 F. 202-366-7618
donald.trilling@ost.dot.gov

Barbara Cobble
Office of the Inspector General
Maritime and Highway Safety, JA-40
Room 9201
400 7th St., SW
Washington, DC 20590
V. 202-493-0327 F. 202-366-1846
barbara.m.cobble@oig.dot.gov

RSPA
Edward A. Brigham
DIR-1
Research and Special Programs Administration,
Nassif Building, Room 8417
400 7th St., SW
Washington, DC 20590
V. 202-366-4434 F. 202-366-3671
Edward.Brigham@rspa.dot.gov

Jennifer Antonielli
DRA-1
Research and Special Programs Administration,
Nassif Building, Room 8417
400 7th St., SW
Washington, DC 20590
V. 202-366-0843 F. 202-366-3671
jennifer.antonielli@rspa.dot.gov

Richard D. Huriaux
Manager, Regulations
Office of Pipeline Safety, DPS-12
Research and Special Programs Administration
Nassif Building, Room 7128
400 7th St., SW
Washington, DC 20590
V. 202-366-4565 F. 202-366-4566
richard.huriaux@rspa.dot.gov

John K. Pollard
Operator Performance and Safety Analysis Division, DTS-79
Volpe National Transportation Systems Center
55 Broadway
Cambridge, MA 02142
V. 617-494-3537 F. 617-494-3622
pollard@volpe.dot.gov

Stephen M. Popkin
Operator Performance and Safety Analysis Division, DTS-79
Volpe National Transportation Systems Center
55 Broadway
Cambridge, MA 02142
V. 617-494-3532 F. 617-494-3622
popkin@volpe.dot.gov

K. Thirumalai
DRA-1
Research and Special Programs Administration
Nassif Building, Room 8417
400 7th St., SW
Washington, DC 20590
V. 202-366-0375, F. 202-366-3272
K.Thirumalai@rspa.dot.gov

Jeffrey D. Wiese
Office of Pipeline Safety, DPS-11
U.S. Department of Transportation
400 7th St., SW
Washington, DC 20590
V. 202.366.2036 F. 202.366.4566
jeff.wiese@rspa.dot.gov

USCG William Abernathy
U.S. Coast Guard, G-MSE-1
Human Element and Ship Design Division
Room 1304
2100 2nd St., SW
Washington, DC 20590
V. 202-267-0864 F. 202-267-4816
wabernathy@comdt.uscg.mil

Carlos Comperatore
U.S. Coast Guard Research and Development Center
1082 Shennecossett Road, Avery Point
Groton, CT 06340
V. 860-441-2751 F. 860-441-2792
ccomperatore@rdc.uscg.mil

Allen W. Penn
U.S. Coast Guard, G-MSE-1
Human Element and Ship Design Division
Room 1304
2100 2nd St., SW
Washington, DC 20590
V. 202-267-0162 F. 202-267-4816
apenn@comdt.uscg.mil