

Biographical Sketches of Speakers

Michael Acott

Mike Acott is President of the National Asphalt Pavement Association (NAPA), the national trade association representing the asphalt paving industry in the USA. Mike is also the Chairman of the Global Asphalt Pavement Alliance, which includes the paving industry from Japan, Australia, New Zealand, Europe, and Mexico.

His career activities involve more than 30 years of experience in the pavement industry in Europe, South Africa, and the United States, including experience with aggregate and bitumen suppliers, and management of an asphalt construction company. He has been the President of NAPA since 1992, and has helped develop partnerships with Government and Union partners that have resulted in an improved workplace environment. This has included successful national initiatives on engineering controls, warm mix, and best practices that have resulted in reduction in workplace exposure.

Mr. Acott has authored and co-authored numerous peer-reviewed and non peer-reviewed publications and reports on various facets of asphalt pavement design, construction, and materials technology. Many of these papers have been presented at national and international conferences such as Transportation Research Board, Conference for Asphalt Pavements for Southern Africa, Eurasphalt, Eurobitume, American Society for Civil Engineers, UK Institute for Asphalt Technology, International Conference on Low Volume Roads, International Conference on the Structural Design of Asphalt Pavements, the Association of Asphalt Paving Technologists, and the World of Asphalt.

He has been active in the Transportation Research Board and is a former member of its Executive Committee and is a Board member of the National Center for Asphalt Technology (NCAT), based at Auburn University.

Daniel H. Anna

Daniel H. Anna, Ph.D., CIH, CSP, Secretary, American Industrial Hygiene Association board of directors.

Mohammad Ayub

Mohammad Ayub, PE, SE, is the Director, Office of Engineering, Directorate of Construction, Occupational Safety and Health Administration in the U.S. Department of Labor. Mr Ayub manages the office of engineering with the primary duty to conduct forensic investigation of major construction incidents involving steel, concrete and timber structures, buildings, bridges, towers and tunnels. My Ayub conducts field inspections and structural analyses of failed structures leading to causal determination, provides structural engineering assistance to OSHA regional and area offices, and advises OSHA directorates on matters related to structural engineering. He interacts with major engineering organizations on lessons learned from construction catastrophes, provides abatement methods of violations of OSHA and industry standards, and provides solutions of uncommon and unique construction issues. He holds an MS in civil engineering from George Washington University, Washington DC and a BS in civil engineering from Ranchi University, India. He is a registered professional engineer (PE) in Maryland and Virginia and a registered structural engineer (SE) in California.

Cal Baier-Anderson

Cal Baier-Anderson is a Toxicologist with the US Environmental Protection Agency, Design for the Environment (DfE) Program. DfE works in partnership with industry, environmental groups, and academia to reduce risk to human health and the environment through the use of inherently safer chemicals. In this

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capacity she conducts alternatives assessments to identify inherently safer chemicals for informed substitution, considered to be a critical component of EPA's green chemistry and sustainability efforts. Prior to this position, she served as a health scientist with the Environmental Defense Fund and a part-time Assistant Professor in the Department of Epidemiology and Preventive Medicine at the University of Maryland, Baltimore. Cal earned a Ph.D. in Toxicology in 1999 from the University of Maryland, Baltimore, after which she served as a technical advisor to communities living adjacent to hazardous waste sites through EPA-funded community assistance programs. Additional work experience includes risk assessment and risk communication consulting.

Michael Behm

Michael Behm is an Associate Professor of Occupational Safety at East Carolina University. Mike holds a BS, Occupational Safety and Hygiene from Millersville University; MS, Industrial Hygiene from Temple University; PhD, Public Health from Oregon State University; and is a Certified Safety Professional. He is a member of the NIOSH Prevention through Design and NORA Construction Sector Councils. In 2011, he was awarded a research fellowship by the Centre for Urban Greenery & Ecology, Singapore, to study safe design of skysrise greenery systems. Before returning to school full-time at Oregon State, Mike worked for 11 years as an occupational safety and health professional for Lenox China and Saint-Gobain Corporation. His research interests include safety through design, safety management, and incident causality.

Elyce Biddle

Elyce Biddle is a Senior Research Economist at the National Institute for Occupational Safety and Health (NIOSH) and Adjunct Professor at West Virginia University. She focuses on occupational injury and fatality cost modeling, including drafting CDC Guidelines on constructing business cases for health promotion and prevention, drafting with ORC Worldwide the initial American Industrial Hygiene Association's sponsored Value of the Industrial Hygiene Profession Strategy and applying these methods in field studies at collaborating firms. She was Coordinator of the NIOSH Economic Evaluation of Occupational Health and Safety Interventions at the Company Level Task Force, National Occupational Research Agenda Social and Economic Consequences of Workplace Illness and Injury team co-chair and CDC Health Economics Research Group steering committee member. She publishes in numerous academic journals, the ILO Encyclopaedia of Occupational Health and Safety, and recently completed a book chapter entitled *The Business Case for Occupational Safety, Health, and Environment and Beyond*.

Martha Bidez

Dr. Bidez is currently Professor and Graduate Program Director of the Master of Engineering in Advanced Safety Engineering and Management, University of Alabama at Birmingham (UAB) School of Engineering (www.uab.edu/engineering/professional-programs/asem) and President and CEO of BioEchoes, Inc a biomedical engineering consulting firm specializing in system safety.

Dr. Bidez has received numerous recognitions for her accomplishments in both the academic and the private sectors. She was named a National Leadership Fellow of the W.K. Kellogg Foundation (1993-1996), UAB Distinguished Alumnus (1998), Alabama's Business Woman of the Year (2002), inaugural inductee into the Alabama Women Business Owners Hall of Fame (2003) and recipient of the Jesse J. Lewis Community Service Award (2005) for her work in serving Birmingham's homeless women and children. She has appeared on a broadcast of the ABC 20/20 news magazine addressing child auto safety and was featured in the book: *Women Who Mean Business – Success Stories of Women Over Forty*. Her career accomplishments were nationally recognized with her induction as a Fellow of the American Institute of Medical and Biological Engineering (AIMBE), which represents the top 2% of biomedical engineers in the United States. In 2011, the American Society of Safety Engineers/Women in Safety Engineers (WISE) selected Dr. Bidez as one of "100 Women" who have made a significant contribution to safety. Most recently the International System Safety Society awarded Dr. Bidez with the "2011 Educator of the Year"

award for the development of her new, innovative Master of Engineering program for both engineers and safety professionals.

John Borowski

John is the Director of Health, Safety, Security and Environment for WorleyParsons Western Operations. John is a Certified Industrial Hygienist and Certified Safety Professional with more than 27 years of experience in providing innovative safety and health solutions to clients in upstream and downstream hydrocarbons facilities, water and power utilities, pulp & paper, chemicals and heavy industry. John was the Principal Investigator for the Team including 20 water utilities that recently completed a study for the Water Research Foundation. The name of the study is: "Water Utility Safety and Health: Review of Best Practices"

John has been a tireless supporter for the Prevention-through-Design concept and is excited to share his experience in the implementation of PtD on large capital projects as a member of an integrated (operations, maintenance and design) team.

Beth Cooper

Beth Cooper is an acoustical engineer serving as NASA's Internal Agency Consultant for Hearing Loss Prevention and Low Noise Design in the Office of the Chief Health and Medical Officer at NASA Headquarters. Ms. Cooper provides specialized support for the agency's occupational health and engineering communities to help them meet NASA's hearing conservation program requirements, including those for "Buy-Quiet" and "Quiet-by-Design" Programs. She also manages the development, promotion, and public distribution of unique multimedia training resources for hearing conservationists and noise control professionals, which are distributed under the auspices of the NASA Glenn Research Center Auditory Demonstration Laboratory.

From 1999 to 2007, Ms. Cooper managed the conceptual design, construction, accreditation, and ongoing operations of the Glenn Acoustical Testing Laboratory and provided noise control design, testing, and training support to help NASA's science experiment payloads meet International Space Station hearing conservation requirements. Previously, she managed the development and implementation of Glenn Research Center's hearing conservation and community noise programs. Ms. Cooper has managed the design and construction of numerous NASA noise control projects, including three significant NASA acoustical facilities.

Ms. Cooper has served as the Director of Communication of the National Hearing Conservation Association and as a member of the ANSI S12 Accredited Standards Committee on Noise and Working Group #11 on Hearing Protector Attenuation. She is a Fellow of the Institute of Noise Control Engineering (INCE), has served on the INCE Board of Directors, as INCE Vice President for Board Certification, and as General Chair of NoiseCon 2003. She has represented INCE on the Council for Accreditation in Occupational Hearing Conservation (CAOHC), served as Council Chair, and is CAOHC-certified as a Course Director.

Ms. Cooper holds a B.S. in mechanical engineering from the University of Hartford and a M.S. in acoustics from the Pennsylvania State University and has 30 years of professional experience in the field of acoustics, noise control, and hearing conservation.

Kyle B. Dotson

Kyle Dotson is a management consultant and expert witness in matters of corporate safety, industrial hygiene, and indoor air quality. He is President of the DOTSON Group and based in the San Francisco Bay Area. Mr. Dotson is a Certified Industrial Hygienist, a Certified Safety Professional, and a Board Certified Environmental Engineer. His education includes an MS in Environmental Science from the University of Texas at Dallas. His 30-year Safety and Health career includes serving as the Vice President, Safety, Health

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and Environment for a major US electric power company and as head of Safety and Health for two of the world's largest mining companies. Mr. Dotson is a Fellow of the American Industrial Hygiene Association and currently serves on the AIHA/ANSI Z-10 Health and Safety Management System Accredited Standards Committee.

Atila Ertas

Dr. A. Ertas, Professor of Mechanical Engineering, received his masters and Ph.D. from Texas A&M University. He had 12 years of industrial experience prior to pursuing graduate studies. Dr. Ertas is a Senior Research Fellow of the ICC Institute at the University of Texas Austin, a Fellow of ASME, and a Fellow of SDPS. Dr. Ertas' contributions to teaching and research have been recognized by numerous honors and awards. The honors and awards include: President's Excellence in Teaching; Pi Tau Sigma Best Professor Award; Pi Tau Sigma Outstanding Teaching Award; Halliburton Award in recognition of outstanding achievement and professionalism in education and research; College of Engineering Outstanding Researcher Award; George T. and Gladys Hanger Abell Faculty Award for overall excellence in teaching and research; and President's Academic Achievement Award. He also received the most prestigious SDPS George Kozmetsky Distinguished Achievement Award and Excellence in Leadership Award. Dr. Ertas has earned both national and international reputation in engineering design. Dr. Ertas is co-editor of more than 35 conference proceedings and author of four books. He has published over 150 scientific papers that cover many engineering technical fields. He has been PI or Co-PI on over 50 funded research projects. Under his supervision more than 170 graduate students have received degrees.

H. Landis Floyd

Lanny Floyd received his BSEE degree from Virginia Tech and joined DuPont in 1973. For the past 30 years, his responsibilities have largely focused on electrical safety in the construction, operation and maintenance of DuPont facilities worldwide. He is currently Principal Consultant, Electrical Safety & Technology and is responsible for improving management systems, competency renewal, work practices, and the application of technologies critical to electrical safety performance in all DuPont operations; and the application of this knowledge and experience to electrical safety products DuPont brings to the marketplace. He is an IEEE Fellow, a professional member of American Society of Safety Engineers, a Certified Safety Professional, a Certified Maintenance & Reliability Professional, and a registered professional engineer in Delaware. He has authored or co-authored more than 70 published papers and articles, and received twelve prize paper awards from the Institute of Electrical and Electronics Engineers. He has given more than 150 presentations at conferences, seminars and webcasts.

Joseph Fradella

Joe Fradella is an Instructor in the School of Civil and Construction Engineering at Oregon State University. Prior to coming to Oregon State, he was a Project Manager for three years at the Baha'i World Centre in Haifa, Israel, where he oversaw historic building restoration and conservation of UNESCO World Heritage sites, as well as other property improvement and maintenance projects. Joe is a licensed Professional Engineer in the state of Oregon and has an M.S. degree in Civil Engineering from the University of Texas at Austin. Joe has done consulting in construction safety and project management and works part-time for a mechanical-electrical design firm.

Peter Furst

Peter Furst is an independent consultant and has advised architecture, engineering, construction & other firms in organizational & human performance improvement. About one fourth of his career was in architecture, half in construction and one quarter in consulting. He is a Registered Architect, Certified Safety Professional, Associate in Risk Management, a Registered Environmental Assessor & Certified Risk & Insurance Specialist. He has a master's in business administration, a bachelor of architecture, & a

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bachelor of science in construction engineering. He lectures at Harvard, UC Berkeley & Cal State East Bay in engineering, business, construction management & safety courses. He has taught at UCLA, USC, and other Universities in the past. Since 1996 he has lectured on culture, leadership, performance, management, construction and safety topics at conferences in North & South America. Some of the organizations at whose national conferences he has spoken are IRMI, RIMS, ASSE, NSC, IAPA, ISEM, CSC, ACI, CSI, US, AGC, ABC, & WofC. He is a member of various ANSI committees and sub committees (A10 & Z359) as well as ASTM, ASSE, NSC, IIE, AGC and many more.

John Gambatese

John Gambatese is an Associate Professor in the School of Civil and Construction Engineering at Oregon State University. Dr. Gambatese's educational background includes Bachelor and Master of Science degrees in Civil Engineering from the University of California at Berkeley with emphases in structural engineering, and a Ph.D. in Civil Engineering from the University of Washington in the area of construction engineering and management. He has worked in industry as a structural engineer for Degenkolb Associates, a private structural engineering consulting firm headquartered in San Francisco, and as a project engineer for the construction management firm of O'Brien-Kreitzberg & Associates in Seattle. He started his current position at Oregon State University in 2000 following three years on the faculty at the University of Nevada, Las Vegas, and one year as an Acting Assistant Professor at the University of Washington. Dr. Gambatese has taught courses on construction contracts and specifications, construction safety and productivity improvement, planning and scheduling, structural analysis and design, temporary construction structures, and engineering economics. He has performed research and published numerous articles on construction worker safety, sustainability, constructability, innovation, construction contracting, and life cycle properties of civil engineering facilities. He is a member of the American Society of Civil Engineers (ASCE) and American Society of Safety Engineers (ASSE), and actively participates on ASCE's Prevention through Design Committee, Construction Site Safety Committee, Constructability Committee, and Construction Research Council. He is a licensed Professional Civil Engineer in California.

Stephen Gauthier

Steve Gauthier is employed at General Electric Company in Lynn, Massachusetts. He has 31 years of experience as a machinist in the manufacturing sector. Steve is an elected Health and Safety Legislative Committee Representative for International Union of Electrical Workers, Communications Workers of America (IUE/CWA), Local 201, in Lynn, MA. He is an IUE national spokes-person for the National Blue Green Alliance in Washington, DC. He is a Special Government Employee (SGE). As a SGE he has participated in multiple on-sites Safety Audits, as well as mentoring many sites in their quest for VPP (OSHA's voluntary protections program) the elite program were going beyond mere compliance is true prevention. He is on the Board of Directors, Vice-chairman and Chairman of the VPPPA Region I Communications Committee .and the National VPPPA Labor Management Committee.

Steve has presented many sessions at the regional and national conferences for several years including the following: Metalworking Fluids "Oil Mist and Beyond"; Strengthening Star Quality; and VPP Labor and Management.

Steve is a member of the Advisory Committee to the Administrative Council on Toxic Use Reduction and represents labor from General Electric. The Advisory Committee's work is a critical part of the operation and effectiveness of the Administrative Council, the Toxic Use Reduction Act (TURA) program's governing body. Steve provides a crucial aspect of the wide perspective that we need to meet the legislative statutory mandate of the Toxics Use Reduction Act.

Steve was the co-writer of the national Certified Metalworking Fluids Specialist exam for the Society of Tribologists and Lubrication Engineers' (STLE).

Kelvin Genn

Kelvin is the Global General Manager for Safety at Sinclair Knight Merz, a global engineering and project delivery company. He is a board member for the Griffith University Key Centre for Ethics, Law, Justice and Governance, and served as a board member for the Food Safety Information Council for the Australian Government Food Standards Authority. Kelvin was previously the NSW Health Director of Clinical Quality and Safety, and worked with the Australian Commission for Safety Quality and Healthcare to design and produce the new Australian Clinical Quality, Safety and Governance Standards.

For 10 years, Kelvin was Asia Pacific Risk Director for Compass Group Plc, a global leader for the provision of support services to Defence, UN and Mining and Construction. Kelvin also has 12 years of experience with the Royal Australian Air Force, developing and managing OHS practices for its aviation operations.

Kelvin is currently working with the University of Ballarat, Griffith University and RMIT to develop Prevention through Design into the resilience engineering concept for SKMs and the safety community engineering practices.

Charles Geraci

Dr. Charles Geraci is Coordinator of the NIOSH Nanotechnology Research Center. He has 35 years of Industrial Hygiene practice experience that has included the federal government, consulting, and private industry. Dr. Geraci earned a B.S. in chemistry from the University of Cincinnati and a Ph.D. in chemistry from the Michigan State University. He is certified by the American Board of Industrial Hygiene in both the Comprehensive Practice and the Chemical Aspects of Industrial Hygiene and in 1999 he was elected a Fellow of the American Industrial Hygiene Association. Dr. Geraci provides overall coordination and strategic guidance to the nanotechnology research program at NIOSH and collaborates internationally with other country programs on various aspects of nanotechnology workplace safety and health. He has authored or co-authored many of the papers that have helped set the direction for proactive thinking in nanotechnology safety and health.

Alistair Gibb

Alistair Gibb, PhD, BSc, CEng, MICE, MCIQB, is a Chartered Engineer, Chartered Builder and Professor of construction engineering management, joining UK's Loughborough University in 1993, following a career in civil engineering and construction management. He is Project Director of the European Construction Institute's Safety, Health and Environment task force (ECI). Internationally he is coordinator of the Conseil Internationale de Batiment (cib) working commission on construction health & safety. He has led many health and safety research projects funded both by the UK Government and industry. He currently serves on the London 2012 health & safety legacy steering group and involved with several research projects on the Olympic Park developments.

Matthew Hallowell

Matthew R. Hallowell, Assistant Professor, Department of Civil, Environmental, and Architectural Engineering, The University of Colorado at Boulder.

Dan Hartley

Dr. Hartley joined NIOSH in 1998 and has worked as the NIOSH Workplace Violence Prevention Coordinator since 2003. He is employed in the Analysis and Field Evaluations Branch of the Division of Safety Research located in Morgantown, WV. He is currently project officer for the NIOSH Workplace Violence Research and Prevention Initiative and for several diverse workplace violence prevention efforts, including projects related to prevention of violence against healthcare workers; prevention of violence against pharmacist, and retail violence prevention. He has published on many workplace violence

prevention topics, such as the societal cost of workplace homicides, retail workplace violence prevention, and prevention of violence against healthcare workers with an emphasis on pharmacists. Other publications areas include: the aging workforce; economic costs of workplace fatalities; and fire and flame related occupational fatalities.

Donna S. Heidel

Donna Heidel, MS, CIH coordinates the Prevention through Design (PtD) program at CDC/NIOSH, including the Green, Safe and Healthy Jobs initiative to ensure that occupational health and safety is included in green jobs and sustainability. She coordinates research and facilitates the translation to practice that will reduce occupational injuries and illnesses among workers by eliminating hazards and minimizing risk during the design process. She chairs the PtD Council and fosters collaborative partnerships with labor, industry, government, and other stakeholders. In addition, she coordinates the activities to achieve the five strategic goals identified in the PtD Plan for the National Initiative. Prior to NIOSH, Ms. Heidel gained 20 years' experience in the pharmaceutical industry, first at Merck and Co, Inc. and later at Johnson & Johnson. While at Johnson & Johnson, she completed a 2-year international assignment establishing industrial hygiene programs at 42 facilities in Europe, the Middle East and Africa. She also served as World Wide Director of Industrial Hygiene and Occupational Toxicology. Ms. Heidel has an M.S. in industrial hygiene from Temple University. She is board-certified in the comprehensive practice of industrial hygiene by the American Board of Industrial Hygiene (CIH) and is an AIHA fellow.

Dave Heidorn

Dave Heidorn has been the Manager of Government Affairs and Policy for the American Society of Safety Engineers since 2001. In that role, Dave helps ensure that ASSE's Government Affairs Committee provides the leadership needed to advance safety, health and environmental professionals' interests in federal legislation and the activities of agencies such as OSHA, NIOSH, MSHA, EPA, the Department of Transportation, and the Department of Homeland Security. In addition, Dave provides consultative assistance to ASSE's member-based volunteer government affairs efforts at the state level.

Dave has held positions in government affairs and public policy development for property and casualty insurers, the medical profession and in nursing. Dave has a Juris Doctor and a BA in English and Education, both from Valparaiso University.

Jimmie Hinze

Jimmie Hinze, Director of Graduate Program, Professor, Director of the Fluor Program for Construction Safety, Rinker School of Building Construction, University of Florida.

William Horsford

William (Bill) Horsford, PhD, Project General Manager, Environmental and Safety Engineering, Toyota.

Margaret M. Kitt

Dr. Kitt received a Bachelor of Science from The State University of New York at Albany, a Doctor of Medicine from the University of Rochester School of Medicine and Dentistry, and a Master of Public Health from the University of Washington. She is board certified in Aerospace Medicine and Occupational Medicine. In 2002, after serving in the U.S. Air Force for 14 years as a Flight Surgeon, she joined the National Institute for Occupational Safety and Health (NIOSH) and is currently a CAPT in the U.S. Public Health Service. She worked in the Division of Respiratory Diseases and has served as the NIOSH Associate Director for the Emergency Preparedness and Response Office. Dr Kitt is currently the NIOSH Deputy Director for Program.

Anjali Lamba

Anjali Lamba is a senior industrial hygienist with the Chemical Engineering Branch within the Office of Pollution Prevention and Toxics at EPA. She holds a Master of Public Health (MPH) in Environmental and Occupational Health from the George Washington University, and is a Certified Industrial Hygienist (CIH). At EPA, Anjali provides technical support and guidance on worker exposure and protection as well as workplace regulatory issues for EPA's new chemicals and existing chemicals programs. Prior to joining EPA, Ms. Lamba worked for a consulting company and provided industrial hygiene support to several Federal government departments and agencies.

Mary Ann Latko

Mary Ann Latko, CIH, CSP, QEP, Director Scientific and Technical Initiatives, American Industrial Hygiene Association.

Nancy Lessin

Nancy Lessin is Program Coordinator for the United Steelworkers - Tony Mazzocchi Center for Health, Safety and Environmental Education. She has worked in the field of occupational safety and health for over 30 years. She served for five years as a member of the National Advisory Committee on Occupational Safety and Health (NACOSH); and also served for five years on the NIOSH National Occupational Research Agenda "Organization of Work" Workgroup. She currently serves on the AFL-CIO's Staff Subcommittee on Occupational Safety and Health and its work group on Work Organization. She has served as adjunct faculty with the Labor Relations Research Center, University of Massachusetts-Amherst; and with the National Labor College. She has presented programs on work organization changes for unions in the United States, Canada, Europe, South America and Australia.

Thomas J. Lyons

Mr Lyons is a certified safety professional living in Warwick, New York, working for Innovative Technical Solutions, Inc. of Walnut Creek, California. With a strong background in construction safety and industrial hygiene, he focuses on reducing or eliminating risk through proper planning, implementation of best practices and lessons learned at the project level with a focus on driving from risk management to risk elimination. Starting as many other safety professionals in the asbestos management and inspection trade in the late 1980's, his career took a turn for the best when he recognized a fall hazard while doing some indoor air pollution work and saw the results of simple fixes to keep people from getting hurt. Mr Lyons then went on to head a health and safety consulting office for a firm in Massachusetts focusing on environmental site assessments and testing, training, and indoor air pollution investigations across New England.

Board certified as an Occupational Health and Safety Technologies and Certified Safety Professional, he is proud to have taken some of these skills to his local community. A past assistant chief, NU State adjunct fire instructor (hazardous materials) and EMT, he sees the need to drive safety from the field to the home as often as possible. In 2001, Mr. Lyons was awarded the international Risk Management Institute's Gary Bird Horizon Award for his efforts in implementing the OSHA Voluntary Protection Program on the first construction project in the state of New York.

Mr. Lyons was a past chapter writer for the American Society of Testing of Materials and for the recent American Society of Safety Engineers *Construction Safety Management and Engineering Volume 1*.

Dan MacLeod

Dan MacLeod is one of the pioneers in the field of workplace ergonomics, dating back to the 1970s in the auto industry. He currently consults for a number of Fortune 100 companies on both technical and

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organization issues related to manual work. Dan is multi-lingual and has broad international consulting experience, primarily in Sweden, China, and Mexico. During his nearly 40-year professional career he has instituted programs in many large and complex organizations, often in a joint union-management setting. He has conducted evaluations in roughly 1500 different workplaces in multiple industries. His influence has dramatically changed countless worksites, including entire industries. Dan is author of four full-length books on practical ergonomics, plus a wide variety of training manuals, booklets, and videotapes. He is a Certified Professional Ergonomist (CPE) and holds masters' degrees in Occupational Health and Safety and in Industrial Relations. He is self-employed and lives in Northeastern Pennsylvania.

Fred Manuele

Fred A. Manuele is President of Hazards Limited – the company he formed after retiring from Marsh & McLennan where he was a Managing Director and Manager of M&M Protection Consultants. His experience in the practice of safety spans more than a few decades. He is a Certified Safety Professional and a Registered Professional Engineer.

Mr. Manuele's books *Advanced Safety Management: Focusing on Z10 and Serious Injury Prevention* and *On the Practice of Safety, Third Edition* have been adopted by several professors for safety degree programs. Other books he has written are *Innovations in Safety Management: Addressing Career Knowledge Needs*, and *Heinrich Revisited: Truism or Myths*. He is also coeditor of the book *Safety Through Design*. A goodly number of Mr. Manuele's papers relating to safety engineering and management have been published.

Mr. Manuele was awarded the honor of Fellow by the American Society of Safety Engineers and was given the Distinguished Service to Safety award by the National Safety Council. He is a former board member of ASSE, the National Safety Council, and the Board of Certified Safety Professionals, where he also served as President.

Wayne S. Maynard

Wayne S. Maynard is Manager, Technical Services and Product Development, Loss Control Advisory Services at the Liberty Mutual Research Institute for Safety, Hopkinton, MA. Prior to this position, Wayne spent 15 years as Product Director-Ergonomics and Tribology responsible for developing ergonomics and slip, trip and fall assessment tools, technical resources and training for Liberty Mutual's Loss Control organization. He has 33 years of experience with Liberty Mutual and Wayne's partnership with the Research Institute for Safety supports the Institute's mission of From Research to Reality.

Wayne has written numerous articles and presented many times at industry and safety conferences on slip, trip and fall prevention and he belongs to several technical committees on ergonomics, pedestrian walkway safety and footwear. Wayne received a B.A. degree in Zoology from the University of Maine, Orono, ME and is a Certified Safety Professional, Certified Professional Ergonomist, and holds the Associate in Loss Control Management designation.

James McGlothlin

Dr. McGlothlin research specializes in ergonomics, exposure assessment, occupational hygiene engineering controls and epidemiology. He is the Director of the Graduate Program in Occupational and Environmental Sciences at Purdue University and the former Technical Director for the Regenstrief Center for Healthcare Engineering (RCHE). He is on the University Senate, and former Chair of the Educational Policy Committee. Prior to Dr. McGlothlin's appointment to Purdue University, (January 4, 1999) he was a senior researcher in ergonomics and industrial hygiene with the Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health (CDC/NIOSH). The author of more than 130 scientific, technical, and government reports, Dr. McGlothlin served as a course director in ergonomics at Northwestern University School of Engineering, Evanston, Illinois, and at the University of

Cincinnati School of Medicine, Ohio. He is currently an adjunct Professor in the College of Public Health at the University of Iowa, and he has a courtesy appointment at Purdue's School of Industrial Technology. He has received several awards for his research and service to the U.S. Public Health Service, including the *Surgeon General's Exemplary Service Medal*, the *Outstanding Service medal*, and *Stanley J. Kessel Award for Outstanding Health Services Professional of the Year*. At Purdue University his awards include the *Focus award* for outstanding contributions to the furthering of Purdue University's commitment to disability accessibility and diversity, recognized as a *Faculty Scholar* for outstanding academic distinction, and a *Regenstrief Center for Healthcare Engineering (RCHE) Scholar*. Dr. McGlothlin became a Fellow of the American Industrial Hygiene Association in March 2006. He has 3 Patents, and one has pending on wireless real-time video exposure monitoring systems. He serves on several national and international professional committees, and currently serves on the editorial boards of the *Occupational and Environmental Health Journal*, and the *Occupational Hazards Journal*. Dr. McGlothlin received his B.A. degree (1975) in psychology, the M.P.H. degree (1977) in epidemiology, and the M.S. degree (1977) in environmental and industrial health, all from the University of Hawaii, Honolulu. He received his Ph.D. (1988) from the Rackham School of Graduate Studies, in industrial health with a specialty in ergonomics from the University of Michigan, Ann Arbor. Dr. McGlothlin is a Certified Professional Ergonomist.

Peter H. Meckl

Peter H. Meckl is a Professor in the School of Mechanical Engineering, where he has served since 1988. Peter obtained his BSME from Northwestern University and MSME and Ph.D. degrees from MIT. His research interests are primarily in dynamics and control of machines, with emphasis on vibration reduction, motion control, and engine diagnostics. His teaching responsibilities include courses in systems modeling, measurement systems, and control. In addition, he teaches a course entitled *Technology and Values*, which introduces students to the social and environmental impacts of technology through a series of readings and discussions.

He currently serves as co-chair of the Engineer of 2020 committee in the College of Engineering at Purdue, which is charged with integrating important professional skills, such as leadership, innovation, and ethics, into the engineering curriculum. The E2020 committee has defined a set of 20 attributes that Purdue engineering students should possess upon graduation. For the past 4 years, the committee has also sponsored a series of workshops for faculty, highlighting several of these attributes, with tips on integrating them into courses and assessing their effectiveness.

Peter received the Ruth and Joel Spira Award for outstanding teaching in 2000. He spent a semester in the Institute of Measurement and Control Engineering at the University of Karlsruhe, Germany, in spring 2005, conducting research and teaching on autonomous vehicles

Gopal Menon

Gopal Menon holds a B.S. degree in Civil Engineering and a M.S. degree in Structures and Solid Mechanics. He has more than 15 years of engineering experience and his experience includes Structural Design, Computer Aided Analysis and Software development. He is a registered Professional Engineer in District of Columbia, Maryland and Virginia.

He is currently employed as a Structural Engineer with Office of Engineering Services within Occupational Safety and Health Administration (OSHA), U.S. Department of Labor. Before joining OSHA, Gopal worked as a Structural Engineer with Montgomery Watson Americas, Pepco Holdings Inc., and Dulles Transit Partners and as a Software Development Engineer with Aspen Technology Inc.

Paul Moore

Paul Moore, BSME, is the Chief of the Fatality Investigations Team (FIT), located within the Surveillance and Field Investigations Branch of the NIOSH Division of Safety Research. The FIT is tasked with

implementing two investigative programs, the Fatality Assessment and Control Evaluation (FACE) Program and the Fire Fighter Fatality Investigation and Prevention (FFFIPP) Program. As a member of the team since 1992, he has conducted 54 fatality investigations and authored or co-authored a number of NIOSH publications addressing workplace hazards and injury interventions.

Since 2002, Mr. Moore has worked with NIOSH researchers to address ambulance crash-related injury risks for emergency medical service workers. Mr. Moore served as project officer for the the “Evaluation of Emergency Service Vehicle Occupant Safety” project; and the “Ambulance Crash Survivability Improvement Project”. Mr. Moore is currently a member of the research team for the NIOSH project “Partnering with Industry to Build Safe EMS Work Environments” whose aim is to move the results of NIOSH ambulance safety research into practice by providing technical support for consensus standards development addressing ambulance design issues.

Stephen Newell

Steve is a Principal with Mercer ORC Networks, a global consulting firm that services large multinational corporations on safety, health, and environmental matters. Steve leads the Executive Business Issues Forum, and contributes to several other networks, including the main Occupational Safety and Health Group, the OSH Lawyers Group, and the Global Safety and Health Forum. He works extensively with member companies, and addresses topics such as fatality and serious injury prevention, performance metrics, safety and health recordkeeping, management system implementation, contractor safety and health, integrated employee health and wellness programs, and safety and health value analysis.

Steve joined ORC in January 1998. Prior to ORC, he was on the Executive Staff of the federal Occupational Safety and Health Administration (OSHA), as the Director of the OSHA Office of Statistics. Before joining OSHA, he headed the ongoing safety and health statistical programs for the Bureau of Labor Statistics (BLS).

Steve obtained his B.S. degree in economics from the University of Maryland and his J.D. degree from the Columbus School of Law, Catholic University. He is a past member of the District of Columbia and Maryland State Bars.

Mohamed Omar

Mohamed Omar, Sc.D. is an Environmental Management Engineer at the office of Environmental Health, Safety and Emergency Management, Harvard University with a range of responsibilities including environmental permitting and regulatory compliance, supporting sustainability aspects of capital projects, as well as operational entities within Harvard University. He frequently represents Harvard University in front of local, state, and federal environmental agencies. Dr. Omar’s research interest includes sustainable buildings, clean production, green jobs, safe jobs, occupational and environmental intervention research. In addition, he is appointed Commissioner, City of Lowell Green Building Commission.

Georgi Popov

Georgi Popov received a Ph.D. in Chemistry from National Scientific Board and M.S. in Nuclear Instrumentation building – Engineering Physics from Defense University. In 2001 Dr. Popov graduated from Command and General Staff College, Ft. Leavenworth, Kansas. He also has post-graduate certification in Environmental Air Quality. Currently, he is an assistant professor with the Department of Safety Sciences at the University of Central Missouri. His research interests include industrial hygiene, risk assessment, PtD, air quality, alternative fuels, LEAN practices, and business aspects of IH and safety. His experience is unique with both civilian and military environmental, health and safety programs.

Margaret Quinn

Margaret M. Quinn, Sc.D., CIH is an occupational hygienist and professor in the Department of Work Environment, University of Massachusetts Lowell. She has more than 25 years experience in occupational and environmental health and safety professional practice, research, and education. She is certified in the comprehensive practice of industrial hygiene (CIH) by the American Board of Industrial Hygiene. She conducts her research nationally and internationally, with particular focus on promoting health and safety in the healthcare industry. Dr. Quinn is the founding director of the Sustainable Hospitals Program (SHP), in the Lowell Center for Sustainable Production (<http://www.sustainableproduction.org>), which works with hospitals and other healthcare settings to evaluate and implement safer and more environmentally-sound materials, technologies and work practices.

Danezza I. Quintero

Danezza I. Quintero is a Civil Engineer and an employee with the Directorate of Construction (DOC), Office of Construction Services, and U.S. Department of Labor-Occupational Safety and Health Administration (OSHA). She has represented OSHA as an OSHA speaker in several safety and health conventions and international events. She is also an OSHA 500 trainer. Prior to accepting the position in DOC, she was a Safety Engineer in the Fort Lauderdale Area Office and also worked as a Civil Engineer for the USDA.

Danezza has also worked as a Civil Engineer for the USDA, Forest Service in Puerto Rico and Tallahassee and in construction in where she was responsible for the design, construction and management of complex construction projects such as El Portal del Yunque, Visitor Center in Puerto Rico. She was instrumental in the creation of the First Hispanic Fair in the South Florida area and has written several articles for construction magazines.

Frank Renshaw

Dr. Frank Renshaw is retired from the Specialty Materials Business Group of the Rohm and Haas Company. In this role he advised and assisted the Global Supply Chain Director and Regional Manufacturing Directors of the Paint and Coatings, Packaging and Building Materials and Primary Materials businesses in developing and implementing EHS strategy and initiatives, including the health and safety design aspects of chemical processing facilities, related equipment, and process controls. Frank has also served as Corporate Safety Director and Corporate Industrial Hygiene Director for the Rohm and Haas Company. He was President of the American Industrial Hygiene Association and has served as President-Elect, Vice-President and Treasurer of the AIHA, President of the Academy of Industrial Hygiene, and President of the American Industrial Hygiene Foundation. He has also served as Treasurer and Board member of the American Board of Industrial Hygiene, as a member of the NIOSH Board of Scientific Counselors, and the NIOSH NORA-2 Manufacturing Sector Council. Dr. Renshaw is a peer-reviewed author on PtD applications in chemical process safety.

Sathy Rajendran

Sathy Rajendran, Ph.D., M.S., CSP, LEED AP, CRIS, has been employed as an EHS Program Manager for Hoffman Construction Company of Oregon since 2006 and is currently working on a 2 billion dollar semiconductor fab in Oregon. He has managed safety programs for medium and large construction projects, and his experience includes a wide variety of buildings, including hospitals, a biopharmaceutical facility, high-rise condominiums and office buildings, airport projects, parking garages and a hotel. His research in the area of sustainability and safety has been published in the American Society of Civil Engineers (ASCE) and ASSE journals. Rajendran holds a Ph.D. and M.S. in Civil Engineering from Oregon State University and a B.E. degree in Civil Engineering from Anna University in India.

Scott Schneider

Scott P. Schneider is the Director of Occupational Safety and Health for the Laborers' Health and Safety Fund of North America (LHSFNA). The Fund is a non-profit associated with the Laborers' International Union of North America (LIUNA) which represents about 500,000 primarily construction workers in the US and Canada. He has been with the Fund for over twelve years. He has a B.S. Degree from the State University of New York at Stony Brook, a Masters Degree in Zoology from the University of Michigan and a Masters Degree in Industrial Hygiene from the University of Pittsburgh. He is also a Certified Industrial Hygienist (CIH). For the past 30 years, Scott has been doing occupational safety and health work for the Labor Movement, including five years as Ergonomics Program Director for the Building Trade's Center to Protect Workers' Rights (CPWR). He has published several scientific articles and reviews on construction ergonomics. His other main area of interest and expertise is preventing hearing loss among construction workers. Scott has been actively involved with OSHA over the regulation of asbestos exposures and respirators among other issues. He is a member of numerous national committees on safety and health for the Building and Construction Trades Department, the AFL-CIO, the American National Standards Institute (ANSI) and the American Industrial Hygiene Association (AIHA). He was a Labor representative on the OSHA Advisory Committee for Construction Safety and Health from 2003-2005 and a member of the NIOSH Board of Scientific Counselors from 2005-2009. He is a Fellow member of AIHA and was the recipient of the 2010 William Steiger Award from ACGIH.

Paul Schulte

Paul A. Schulte, Ph.D., Director of the Education and Information Division, and Manager of the Nanotechnology Research Center, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, is an epidemiologist with interests in quantitative risk assessment, health communications, biological markers, intervention research, particle carcinogenesis, genetics, and nanotechnology. Dr. Schulte has conducted extensive research on occupational cancer. He is the co-editor of the textbook entitled, "Molecular Epidemiology: Principles and Practices." He has served as guest editor of the Journal of Occupational Medicine and the American Journal of Industrial Medicine and was on the initial editorial board of Cancer Epidemiology, Biomarkers and Prevention. He currently is on the editorial board of the Scandinavian Journal of Work and Environmental Health.

Jochen Teizer

Dr. Jochen Teizer is an Assistant Professor in the School of Civil and Environmental Engineering at the Georgia Institute of Technology since 2006. He is the founder and director of the RAPIDS construction safety technology research laboratory which focuses on data sensing and information technologies that gather or analyze construction site safety data in or near real-time. Research to date has developed an automated safety-rule checker for design of safety in Building Information Modeling (BIM); and technology for real-time pro-active alerts that warn equipment operators of nearby ground workers; real-time location tracking of resources (workers, equipment, materials); real-time 3D immersive data visualization for safety training and education; site access and security; equipment operator visibility and blind spot measurement; and ergonomics. Dr. Teizer research is sponsored by the National Science Foundation (NSF), the Construction Industry Institute (CII), state organizations, and industry. He and his research team have been awarded numerous awards, among them the 2010 CETI award by FIATECH for the SmartHat safety technology. Dr. Teizer has published more 24 peer-reviewed journal publications and more than 50 peer-reviewed conference proceedings.

Joel Tickner

Dr. Joel Tickner is Associate Professor in the Department of Community Health and Sustainability at the University of Massachusetts Lowell where he also directs the Chemicals Policy and Science Initiative at the Lowell Center for Sustainable Production. He is a leading expert on chemicals regulation, regulatory

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science, and application of the precautionary principle and safer materials in science and policy. He has served as an advisor and researcher for several government agencies, international agencies, non-profit environmental groups and trade unions both in the U.S. and abroad during the past twelve years. He teaches and conducts trainings in a variety of environmental health topics including risk assessment, toxic substances policy, children's environmental health and pollution prevention. He was co-coordinator of the Wingspread Conference on the Precautionary Principle, co-editor of the book *Protecting Public Health and the Environment: Implementing the Precautionary Principle* and editor of the book *Precaution, Environmental Science, and Preventive Public Policy*. He has over 100 publications and conference presentations on the topics of chemicals policy, pollution prevention, risk assessment, and uncertainty and the precautionary principle. He serves on the editorial boards of several journals, is a peer reviewer for journals and government documents and served on the EPA's National Pollution Prevention and Toxics Advisory Committee. He also directs the undergraduate environmental health BS program at the University of Massachusetts Lowell. He holds a Masters of Science degree in Environmental Studies from the University of Montana and a Doctor of Science Degree from the Department of Work Environment at University of Massachusetts Lowell and for three years was an Environmental Protection Agency STAR Fellow.

T. Michael Toole

Mike Toole is an Associate Professor of Civil & Environmental Engineering at Bucknell University in Lewisburg, Pennsylvania. He received his BS in Civil Engineering from Bucknell University and his MS in Civil Engineering and Ph.D. in Technology Strategy from the Massachusetts Institute of Technology. His research areas include construction innovation, construction safety and project management. Dr. Toole is a professional civil engineer and a Fellow within the American Society of Civil Engineers. He has served as the Vice Chair of the ASCE Construction Institute Prevention through Design Committee and the Site Safety Committee and as the Co-Chair of the NIOSH NORA Construction Sector Council Construction Hazards Prevention through Design workgroup. He initiated and maintains www.designforconstructionsafety.org. His professional employment includes the U.S. Navy Civil Engineer Corps, a publicly traded homebuilder, and a multidisciplinary engineering firm.

Nicholas Tymvios

Nicholas Tymvios is a Ph.D. student in the School of Civil and Construction Engineering at Oregon State University. His educational background includes Bachelor and Master of Science Degrees in Civil Engineering from Purdue University with emphasis in structural engineering. After his MS degree he worked in industry at Tymvios Bros Ltd, a steel fabrication company in Cyprus, for a period of four years. He is currently working on his PhD at Oregon State University in the area of Construction Engineering Management.

John R. Weaver

John R. Weaver II serves as the Facility Manager for the Birck Nanotechnology Center at Purdue University. He is responsible for the cleanroom and laboratory operations, facility infrastructure, education and training activities, and safety. John led the design, construction, equipment installation, and startup of the BNC, and is heavily involved in the development of best practices in nanotechnology facility design, construction, and operation.

John received his BS from Adrian College and spent 35 years in the semiconductor industry with RCA, Hughes Aircraft Company and Delphi Corporation (formerly Delco Electronics). John has been involved in a variety of roles in semiconductor process design and development, support, and facilities development. He has published numerous papers in both process development and contamination control, has two patents in process development, and authored a book and two book chapters in contamination control technology and nanotechnology facility safety. John has taught a wide variety of industry short-courses,

and is the recipient of the Willis J. Whitfield Award for contributions to the field of contamination control and the Monroe Seligman Award for contributions to nanotechnology facility design and operation.

John is a Fellow of the Institute for Environmental Sciences and Technology, a Technical Editor for the Journal of the IEST, Vice-Chair of SPC-7: Nanotechnology, chair of WG205: Nanotechnology Safety, is a Principal Member of the NFPA 318 committee which writes fire standards for cleanrooms, and is a member of the NIOSH Prevention through Design (PtD) Steering Committee.

Amy Wolfe

Amy Wolfe is the Executive Director of AgSafe, a statewide nonprofit organization whose mission is to minimize injuries, illness and fatalities in California's agricultural industry. Her career includes tenure Vice President for the California Agricultural Leadership Foundation, Account Executive with E&J Gallo Winery and serving as legislative aide to two California State Assembly members.

She is currently on the Boards of Directors for the United Way of Stanislaus County, the Association of Fundraising Professionals and is actively involved in Modesto Rotary. In 2007 Ms. Wolfe won the American Farm Bureau Federation Young Farmers and Ranchers Discussion Meet. Ms. Wolfe received her Masters of Public Policy and Administration from California State University, Sacramento, her Bachelor of Science from California Polytechnic State University, San Luis Obispo and has her Certified Fund Raising Executive accreditation.

Deborah Young-Corbett

Deborah Young-Corbett is an assistant professor of civil and environmental engineering at Virginia Tech, where she has established an integrated research and education program emphasizing PtD solutions for the control of construction health hazards. As a certified industrial hygienist, safety professional, and hazardous materials manager, she has over ten years of professional experience conducting exposure assessment and developing control solutions for construction trade operations. She has received external funding from NIOSH and NSF and is a Co-PI on the university's NIOSH Training Project Grant, contributing expertise to the construction OSH domain of that educational program. Dr. Young-Corbett has developed a course entitled, "Design for Hazard Control", which introduces PtD concepts and encourages students to develop innovative design solutions. This course has been well received by its multidisciplinary audience of graduate and advanced undergraduate students in the fields of civil engineering, building construction, and architecture.