

Personal Protective Equipment and Personal Protective Technology Product Standardization for a Resilient Public Health Supply Chain – A Workshop

Speaker Biographies



LISA BROSSAU, now retired, was a professor at the University of Illinois at Chicago (UIC) School of Public Health from 2015 to 2018, where she was director of the Illinois Education and Research Center, which supported graduate and continuing education for occupational health and safety professionals and community outreach activities. She was also director of the UIC Center for Healthy Work. Dr. Brosseau began her career as an academic researcher and educator at the University of Minnesota School of Public Health, where she directed the Industrial Hygiene Program. Her early research focused on the performance of respirator filters when exposed to hazardous aerosols such as silica and asbestos, and later expanded to include biological and infectious organisms. Her more recent research focused on respirator fit, using real-time methods and simulated workplace tasks to better understand how fit is influenced by realistic head and body motions. She continues to serve as a mentor and technical advisor on research projects and for businesses and organizations, including CIDRAP. Dr. Brosseau has authored more than 100 peer-reviewed publications and book chapters, delivered numerous platform research presentations, and has been an invited speaker at numerous local, national and international conferences and workshops. She has written several articles for CIDRAP focused on respiratory protection for healthcare and other workers during outbreaks and pandemics.



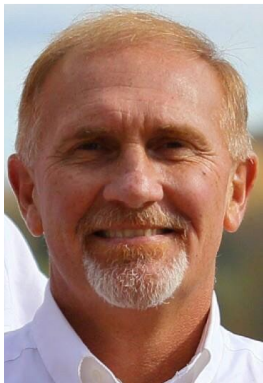
SARAH COEFIELD, M.S., M.A., is an Air Quality Specialist with the Missoula City-County Health Department. During wildfire smoke events, Sarah provides the community with wildfire smoke forecasts and health advisories. During the off-season, she works closely with community, non-profit and research partners to move Missoula County, Mont. closer to being a smoke-ready community. Sarah recently served on the consensus committee for NASEM on Respiratory Protection for the Public and Workers Without Respiratory Protection Programs at their Workplaces, whose report was released in February of 2022.

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BARBARA DEBAUN, has over 40 years of experience in the field of infection prevention and quality improvement. She is currently an Improvement Advisor with Cynosure Health where she provides vision and leadership in the development, implementation and facilitation of infection prevention and quality improvement initiatives for healthcare organizations. Previously, she was an Improvement Advisor for BEACON, the Bay Area Patient Safety Collaborative, and was the Director of Patient Safety and Infection Control at California Pacific Medical Center in San Francisco. Ms. DeBaun is a certified Infection Control Practitioner and holds a Bachelor's degree in nursing from Pace University in New York and a Master of Science Degree in Nursing from San Francisco State University. Ms. DeBaun provides infection prevention and quality improvement facilitation to a wide range of settings including urban, suburban, and rural healthcare facilities. Ms. DeBaun served two years as an elected member of APIC Board of Directors. Prior to her board service, she served as APIC's liaison to the Centers for Disease Control's Hospital Infection Control Practices Advisory Committee (HICPAC). Ms. DeBaun has lectured nationally and internationally on a variety of patient safety and infection control topics and has published over a dozen articles and several book chapters.



CLAUDIO DENTE, is the President and CEO of Dentec Safety Specialist Inc. Dentec Safety Specialist Inc. is a manufacturer, importer, and wholesaler of a variety of PPE serving Canadian distribution. Prior to that, he was the President and CEO of Degil Safety Products Inc. He has devoted his career to the personal protective equipment market and has specialized in startup operations. His area of expertise is developing distribution for personal protective equipment in North America in a variety of channels including safety equipment, industrial, welding, automotive aftermarket, and retail including hardware, paint /sundry, drug stores and health care. He received his Marketing Diploma from Humber College in 1980.

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BRENT DILLIE, is a Chemical Engineer that began his career in fibers, polymers and filtration working various manufacturing roles with Celanese Chemical before joining Essentra PLC as Melt Blown Fiber R&D Manager and eventually Specialty Filtration Sales Manager. He is the Founder and current Board Member of the American Medical Manufacturers Association. Brent is currently the Managing Director of Premium-PPE, one of the largest Surgical Mask and Pediatric Mask producers in the country, and CEO of Princo USA, a Virginia based manufacturer of Adult Incontinence products.



PAUL DILLINGER, is the Vice President, Head of Global Product Innovation and part of the design team at Levi Strauss & Company. Following his passion for sustainability, Mr. Dillinger has been an integral partner with the company's Social and Environmental Sustainability group, developing front-end methods for applied sustainability in the design process. Mr. Dillinger led the design team that created Levi's WELLTHREAD® - an experimental collection focused on sustainable innovation – through his fellowship with the Aspen Institute. He was also responsible for the design and execution of Project Jacquard, a wearable technology collaboration between Levi's and Google's Advanced Technologies and Projects laboratory. Before joining Levi's in 2010, Mr. Dillinger worked as a fashion designer and brand development specialist for 16 years at a variety of fashion houses in New York, including Calvin Klein and DKNY. He was appointed faculty at the Sam Fox School of Visual Arts and Design at Washington University in St. Louis and has taught at the Rhode Island School of Design, California College of the Arts, and Clark Atlanta University. Mr. Dillinger received his BFA in fashion design from Washington University in St. Louis. After graduation, he moved to Milan, Italy as the first Fulbright Scholar in the field of fashion design where he earned a Master of Fine Arts from the Domus Academy.

OZLEM ERGUN, is a College of Engineering Distinguished Professor and the Associate Chair for Graduate Affairs in Mechanical and Industrial Engineering at Northeastern University. Her research focuses on design and management of large-scale and decentralized networks. She has applied her work on network design, management, and resilience to problems arising in many critical systems including transportation, pharmaceuticals, and healthcare. She has worked with organizations that respond to emergencies and humanitarian crises around the world, including USAID, UN WFP, UNHCR, IFRC, OXFAM America, CARE USA, FEMA, USACE, CDC,

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AFCEMA, and MedShare International. Recently, Dr. Ergun partnered with the Massachusetts' Executive Office of Elder Affairs (EOEA) and developed platform to match qualified medical professionals to Long Term Care facilities with open positions around the state as part of the state's response efforts to COVID19. Also, Dr. Ergun served as a member of the National Academies Committee on Building Adaptable and Resilient Supply Chains after Hurricanes Harvey, Irma, and Maria and as a member of the National Academies Committee on Security of America's Medical Supply Chain.

STUART EVENHAUGEN, is a Strategy and Policy Analyst at the U.S. Department of Health and Human Services in the HHS Office of the Assistant Secretary for Preparedness and Response. Prior to his current role, he served as a Senior Risk Analyst for the U.S. Department of Homeland Security. He also served as a Policy Analyst for the U.S. Department of Health and Human Services, where he provided technical direction regarding medical countermeasure policy development and strategic planning. He earned his Master of Science Degree in General Management from the Stockholm School of Economics. He attended Indiana University, Kelley School of Business where he earned a Graduate Certificate in Business Analytics.



JOHN FLEMING, is currently the Public Health Preparedness Bureau Chief at Houston Health Department, City of Houston. Prior to his current role, he was the Senior Planner for the City of Houston, where he co-created statewide evidence based tools for jurisdictional risk assessments. In that position, he also reviewed and recised plans, protocols, SOPS, or SOGs. He also previously served as the Manger IV of Public Health Preparedness with the State of Texas, where he coordinated Regional Health and Medical responses for Hurricane Ike and the H1N1 pandemic from the Regional Operations Center as Incident. Mr. Fleming earned his Master of Public Administration Degree in Non-Profit/ Public/ Organization Management with a concentration in Disaster and Emergency Management from San Houston State University.

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DANIEL GERARD, started his career in Newark, NJ, as an EMT and is the current president of the International Association of EMS Chiefs. He is also the EMS Coordinator for the City of Alameda Fire Department. Previous to this Dan served as the EMS Coordinator and Acting EMS Director for the Oakland Fire Department. Dan is a recognized expert in EMS System delivery and design. An author and EMS provider Dan is a Nationally Registered Paramedic and Registered Nurse. He holds a Master's in Healthcare Administration and is a doctoral student.

SUSAN GORMAN, Pharm.D., M.S., DABAT, is director of the Office of Science in the Strategic National Stockpile (SNS), which is managed by the Department of Health and Human Services' Administration for Strategic Preparedness and Response (ASPR). Her primary roles include oversight of the stockpile formulary and provision of technical and scientific advice on pharmacological and toxicological issues regarding the stockpile. Dr. Gorman's first 19 years serving with the SNS was within the Centers for Disease Control and Prevention where she responded to terrorism events such as 9/11 and the U.S. anthrax attacks, as well as other public health emergencies such as hurricanes, pandemic influenza, and Ebola. Most recently, following the SNS' transition to ASPR in 2018, she actively engaged in the COVID-19 response and the mpox response. She participates in numerous intergovernmental working groups on counterterrorism involving radiological, chemical, and biological agents and is a recognized speaker on stockpiling for terrorist events and other large-scale public health emergencies. Dr. Gorman has published over 30 articles and abstracts in peer reviewed journals on various toxicology or disaster-related issues, as well as several book chapters regarding disaster preparedness and antidotes used in toxicology.

GORDON GILLERMAN, Director, Standards Coordination Office at the National Institute of Standards and Technology (NIST) and Department of Commerce Standards Executive, leads NIST's work in standards coordination and the National Voluntary Laboratory Accreditation Program. Mr. Gillerman supports extensive standards development and advises federal agencies and other stakeholders on standards and conformity assessment policy. The Standards Coordination Office is the NIST standardization focal point for federal government, administers the NIST Standards Curricula Development Cooperative Agreement Program, operates the U.S. Inquiry Point for the World Trade Organization's Technical Barriers to Trade Agreement, is the U.S. Designating Authority for Telecom Mutual Recognition Agreements, and is a key information source for US industry on standards related market access issues. Mr. Gillerman has extensive

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standards experience across a wide range of critical issues including homeland security, safety, health, and protection of the environment. He is an expert on conformity assessment systems design, an advisor to the U.S. Trade Representative on technical barriers to trade and related trade agreements, and has collaborated across the standards community to develop standards based solutions for national priorities throughout his career. He also provided direct support in the drafting and negotiation of the Technical Barriers to Trade Chapter of the USMCA.

DAN GLUCKSMAN, is the Public Affairs Director at the International Safety Equipment Association. He is known as a strategic and goal-oriented association professional, who has taken ISEA's government relations programs to new levels. He provides ISEA member companies with actionable insights on federal policies allowing these employers to grow revenue and minimize risk. He has led several Congressional and regulatory visits for manufacturing executives to achieve strategic objectives. His event management and planning skills have led to successful annual meetings and executive summits. In addition, his team-oriented approach has led to successful events. He has expanded stakeholder engagement through coalition participation and direct outreach. These activities have led to strategic alliances that move the association forward.



ALEXIS GUILD, is the Director of Health Policy and Programs at Farmworker Justice (FJ), a national farmworker advocacy organization based in Washington, DC. She has been at FJ since 2011. She oversees FJ's health promotion work, partnering with health centers, farmworker community-based organizations, legal services organizations, and advocacy organizations to ensure access to healthcare for farmworkers and their families. She also engages in policy advocacy and analysis on occupational safety and health care issues affecting farmworker communities. Ms. Guild has extensive experience in advocacy, public health, and community organizing. Prior to graduate school, she served as a Health Education Volunteer with the U.S. Peace Corps in Guatemala. Ms. Guild has a Bachelor of Arts Degree from Wellesley College and a Master's Degree in Public Policy from the University of Michigan.

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VICTORIA JAQUA, is a co-author of [Design | Make | Protect](#), an OSMS and Nation of Makers (NOM) white paper documenting the open source and distributed PPE manufacturing movement of 2020. She is a curator for the OSMS Project Library and project manager/collaborator across multiple open source medical initiatives. Most recently, Victoria co-leads the [Global Open Source Quality Assurance System \(GOSQAS\)](#), a project

which supports increasing transparency, documentation, and provenance in the distributed manufacturing of open source designs.



SUNDARESAN JAYARAMAN, Ph.D. is Kolon Professor in the School of Materials Science and Engineering at the Georgia Institute of Technology. He is also the Founding Director of the Kolon Center for Lifestyle Innovation at Georgia Tech. A pioneer in bringing about convergence between textiles and computing, Professor Jayaraman's research has led to the paradigm of "Fabric is the Computer." He is a leader in studying and defining the roles of engineering design, manufacturing and materials technologies in public policy for the nation. Professor Jayaraman is a recipient of the 1989 Presidential Young Investigator Award from NSF for his research in the area of computer

aided manufacturing and enterprise architecture. In September 1994, he was elected a Fellow of the Textile Institute, (UK). His publications include a textbook on computer-aided problem solving published by McGraw-Hill in 1991 and ten U.S. patents. As Principal Investigator, he has received over \$16Million in research funding from a variety of sources including NSF, DARPA, DoD, NIST, CDC, and industry. Dr. Jayaraman served as Technical Editor, Information Technology, for ATI Magazine (now Textile World) from 1995-2003. From May 2000 to October 2004, he was an Editor of the Journal of the Textile Institute and is currently on the Editorial Advisory Board. Professor Jayaraman is a founding member of the IOM Standing Committee on Personal Protective Equipment in the Workplace (2005-2013). From December 2008 to February 2011, he served on the Board on Manufacturing and Engineering Design of the National Academies. In February 2011, he became a founding member of the National Materials and Manufacturing Board of the National Academies. He has also served on seven Study Committees for the National Academy of Medicine (formerly Institute of Medicine) and the National Research Council of the National Academies.

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SEAN KICE, is the Deputy Director of Emergency Preparedness for the Tennessee Department of Health. He is an Emergency Manager/Toxicologist type who joined the ranks of Public Health nine years ago only to begin drowning in a sea of epidemiologists. Previously he was the SNS coordinator and before that that he was the Radiation Protection Officer for the Tennessee Emergency Management Agency, and even longer ago he looked at petrochemicals that found their way into the air and water. He somehow completed programs at the University of Southern Mississippi, Louisiana State University, and Tennessee State University in order to walk away with a Bachelor of Science in Biology, Master of Science in Environmental Science/Toxicology, and a Graduate Certificate in Hospital Administration and Planning. Not too bad for a guy who started out in community college for auto repair.

JENNIFER KIGER, is Director of the COVID-19 Division for Harris County Public Health. Ms. Kiger received her Master's Degree in Public Health at the University of Texas Health Science Center in Houston, TX. She started her public health career as an Epidemiologist Investigator and Preparedness Specialist for the City of Houston Health Department. Then she worked at the Association of Schools of Public Health in Washington, D.C. as a Program Manager for the Centers for Public Health Preparedness. In 2007, she returned to Texas to work for the Department of State Health Services. She spent over 7 years working at the state and regional within Texas working in the public health preparedness field serving various roles including liaison, Strategic National Stockpile coordinator, Preparedness Planner, and Regional Public Health Preparedness Manager. Ms. Kiger has held command roles in several responses including Hurricane Ike, H1N1, TX West Nile Response, and Texas Wildfires 2010, Harris County Flooding events in 2015 & 2016, Hurricane Harvey 2017, and ITC Chemical Fire 2019.



ANDY LEVINSON, is the Director for OSHA's Directorate of Standards and Guidance. Mr. Levinson works on safety and health management systems, emergency response and preparedness, infectious disease, and protective clothing and equipment issues. Prior to joining the Agency, he worked on emergency responder health and safety matters at the International Association of Fire Fighters and on safety and environmental compliance at Anheuser-Busch's brewery in Cartersville, Georgia. Mr. Levinson received his Master's Degree in Public Health from the Emory University and is a graduate of the University of Michigan – Ann Arbor.

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NICOLE MCCULLOUGH, is the Vice President, Global Application Engineering and Regulatory for the Personal Safety Division at 3M, where she manages the global technical services and regulatory group for the Personal Safety Division. Prior to that, she was the Technical Service and Regulatory Affairs Manager in OH&EST, where she managed the technical service and regulatory affairs teams by providing support for the respiratory protection business. She earned her Master of Science Degree and Ph.D. in Occupational and Environmental Health from the University of Minnesota. She also earned her Bachelor of Arts Degree in Biology from Luther College.



COLLEEN MILLER, is the Deputy Branch Chief for the Conformity Verification and Standards Development Branch of the National Personal Protective Technology Laboratory. She is one of the NIOSH Respirator Approval Program leaders, managing a team of engineering reviewers and quality assurance specialists and concurring on every decision made by the Program. Since 2014 she has represented NIOSH on voluntary consensus standard committees including International Organization for Standardization (ISO) TC 94 SC 15 and ASTM International F23 committees. She is currently preparing the regulatory update to NIOSH's regulation to include the ASTM Respirator Fit Capability test method standard. Ms. Miller is a Past Chair of the International Society for Respiratory Protection's Americas Section. She has previous work experience as a Polymer Scientist at an independent consulting firm, Matco Associates Inc., and in the Research and Development Division of Corning Inc. Colleen earned her A.A.S. degree from Broome Community College in Chemical Engineering Technology, and B.S. in Polymer Science from The Pennsylvania State University.

ANNE MILLER, M.B.A., is a strategist with deep experience in healthcare. Over 20 years, she has facilitated the development of novel medical devices, surgical products, diagnostic tools, and innovations for an array of companies. She is currently Principal and Co-Founder of CrossCut Partners LLC, a healthcare strategy and execution consulting firm that helps clients answer difficult business strategy, product marketing, competitive assessment, and product development questions. The firm works for diagnostic, surgical, medical device, life science, specialty pharmaceutical, health care services and private equity/venture capital clients of all sizes in all stages of growth. Ms. Miller is also Executive Director of Project N95, a national nonprofit focused on creating equitable access to affordable, authentic products and services to be safe during the COVID pandemic. She holds degrees from Harvard Business School and Duke University.

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ANDREW MOY, serves as the Chief Executive Officer, Board member and founder of Aegle. He brings years of experience in channel distribution and overseas manufacturing and import/export of consumer products to the Aegle team. Mr. Moy is responsible for day-to-day operations, business development, government contracts, partnerships and investor relations. Prior to joining Aegle, Mr. Moy held roles as a Partner at Playbook Capital and Consensys Capital, serving in a Capital Markets role and has a background in security and high technology. Mr. Moy previously founded a workforce development startup where he sourced over \$21 million in public funding for workforce development in the states of CA, NV, AZ and federal government. He started his career at CDW, where he built a multi-million-dollar book of business reselling IT hardware and software. Mr. Moy graduated from the University of Illinois at Urbana-Champaign with a Bachelor's Degree in Management Information Systems and Finance.

BONNIE ROGERS, Dr.P.H., M.P.H., is an adjunct Professor at the University of North Carolina, School of Public Health, Chapel Hill, NC and currently a consultant with the National Institute for Occupational Safety and Health. Dr. Rogers received her diploma in nursing from the Washington Hospital Center School of Nursing, Washington, DC; her baccalaureate in nursing from George Mason University, Fairfax, VA; and her master of public health degree and doctorate in public health, the latter with a major in environmental health sciences and occupational health from the Johns Hopkins University School of Hygiene and Public Health, Baltimore, MD. She holds a postgraduate certificate as an adult health clinical nurse specialist. She is certified in occupational health nursing, case management, and as a legal nurse consultant, and is a fellow in the American Academy of Nursing and the American Association of Occupational Health Nurses. Dr. Rogers completed an academic certificate program in Bioethics and Health Policy at Loyola University, Chicago, is an ethicist, and was invited to study ethics as a visiting scholar at the Hastings Center in New York. She was granted a National Institute for Occupational Safety and Health (NIOSH) career award to study ethical issues in occupational health. In addition to managerial, consultant, and educator/researcher positions, Dr. Rogers has also practiced for many years as a public health nurse, occupational health nurse, and occupational health nurse practitioner. She has published more than 225 articles and book chapters, and two books, including *Occupational and Environmental Health Nursing: Concepts and Practice*, and *Occupational Health Nursing Guidelines for Primary Clinical Conditions*, in its fifth edition.

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ELIZABETH ROYAL, has worked for the Service Employees International Union for almost 19 years, most recently as the Assistant Director for Healthcare Workforce Strategy and Director of the National Nurse Alliance. Her work focuses on worker-centered policy solutions to the healthcare worker crisis. She holds a Bachelor of Arts Degree in Sociology from The College of William and Mary and a Master's in Sociology from Vanderbilt University. She lives in Northern Virginia with her husband and two daughters.



JENNIFER SCHNEIDER, is the Eugene H. Fram Chair in Applied Critical Thinking at the Rochester Institute of Technology (RIT). She leads the Collaboratory for Resiliency & Recovery at RIT and is a professor in the Civil Engineering Technology, Environmental Management and Safety Department. She has over 30 years of experience as a certified industrial hygienist and process engineer. Dr. Schneider's research interests include hazardous material control and critical infrastructure emergency planning. She also studies exposure assessment and models exposure scenarios, particularly for HAZMAT emergencies. Multidimensional sustainability and analysis of sector based corporate sustainability related activities and management systems are an area of interest. Further, as a CIH and regional school board member, Dr. Schneider was a key campus, k-12 and regional resource during the COVID-19 pandemic, guiding leadership policy, decision-making and technical implementation, including ventilation and air technologies, personal protective equipment (PPE) selection, wastewater sampling and analysis. Since RIT hosts the National Technical Institute for the Deaf integrated within a larger university community, Dr. Schneider engaged early in equitable PPE for the pandemic, and currently has a key role in large project to create inclusive PPE, including clear respiratory protection. Dr. Schneider holds a BA in Comprehensive Science from Roberts Wesleyan, an MS in Industrial Hygiene from the University of Rochester School of Medicine and Dentistry, and an ScD in Work Environment from the University of Massachusetts- Lowell, College of Engineering.

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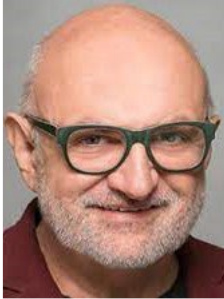
DAN SHIPP, is a consultant in standards, conformity assessment and regulation of personal protective equipment and technologies. From 1993 until his retirement in 2017, he was President of the International Safety Equipment Association (ISEA), The Association for Manufacturers and Distributors of Personal Protective Equipment and Clothing. As the Chief Staff Officer of ISEA, Mr. Shipp represented U.S. safety equipment manufacturers before Congress and U.S. regulatory agencies, as well as global industry, standards and government forums. He has served as a member of the Committee on Personal Protective Equipment for Workplace Safety and Health of the National Academies; the Board of the Americas Section of the International Society for Respiratory Protection; the Board of Directors of the National Safety Council; and the PPE Conformity Assessment Working Group of the National Institute for Occupational Safety and Health's (NIOSH's) National Personal Protective Technology Laboratory (NPPTL). Mr. Shipp was a member of the planning committee for the National Academies August 2020 workshop on current issues in assessment of respiratory protective devices, and the NASEM Committee on Respiratory Protection for the Public and Workers without Respiratory Protection Programs in their Workplaces. In August 2021, he joined StoneTurn Consultants as a subject matter expert, currently under contract to NIOSH NPPTL to advise the agency on alignment of PPE conformity assessment practices with the National Framework for PPE Conformity Assessment - Infrastructure.



MARK SHIRLEY, M.S., is the Director of Integrated Resiliency Management in the Office of the General Counsel at Sutter Health. He provides corporate-level leadership and guidance across a broad range of environmental health, safety and emergency management operations in support of risk mitigation, regulatory compliance and organizational resiliency. Mr. Shirley received his Master's Degree in Environmental Management from the University of San Francisco in 2000 and has been a Board Certified Safety Professional since 2006. He currently serves as a member of the California Department of Public Health's Joint Advisory Committee on Public Health Preparedness, the California Hospital Association's Emergency Management Advisory Committee, and the Hospital Incident Command System National Advisory Executive Committee.

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SKIP SKIVINGTON, is the Vice President, Health Care Continuity and Support Services at Kaiser Permanente. Mr. Skivington concurrently served as the Interim Vice President of Supply Chain during the period of 2005 to 2009, and from 2015 to 2017 led Kaiser's security services program. Since 2000, he has been responsible for the implementation of a formal healthcare continuity management program throughout Kaiser Permanente. In addition to directing this formal planning and response process, and immediately following the anthrax attacks in October 2001, Mr. Skivington formed and now directs Kaiser Permanente's threat assessment program consisting of an executive oversight council, and functional working groups in the disciplines of clinical (physicians, nursing, pharmacy, mental health and lab), facilities, community linkages, people, legal, communications, training, supply chain and public policy. He serves as Kaiser Permanente's National Incident Manager during wide scale events such as the Ebola crisis from 2014 to 2015 and the California Wildfires in 2017. Following Hurricanes Katrina and Rita, Mr. Skivington led two Kaiser Permanente volunteer medical response teams consisting of physicians, nurses and mental health providers to the Gulf Region at the specific request of the US Surgeon General, and was part of the largest medical volunteer response program in the history of the country. Mr. Skivington holds both a Bachelor of Science Degree in Business Administration, and an MBA.



NICHOLAS SMIT, has spent the pandemic helping people understand the importance of using better masks including in underserved communities and he has helped get better masks donated to people in need around the world. He has helped politicians around the world understand the importance of using better masks including getting the government of Ontario and Canada to recommend elastomeric respirators as N95 alternatives. Mr. Smit is now working with politicians, government agencies, corporations and other non-profits in the U.S. to help solve key pandemic issues including trying to get free masks for everyone and solving supply chain issues. Nicolas has been a major advocate for a layered approach to safety. In his spare time, Mr. Smit helps the World Health Network, MaskTogetherAmerica, Clean Air Crew and many other groups around pandemic issues and he is also the Vice Chair for the Greater Sudbury Watershed Alliance as well the past Executive Director for the American Mask Manufacturer's Association.

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SUSAN SOKOLOWSKI, PhD, has more than 30 years of performance sporting goods experience, working cross-functionally between footwear, apparel and equipment in creative and strategic roles. Her work is holistic in nature, where consideration of the athlete's body form, performance, materials and styling are addressed to develop game-changing innovation solutions. She is specifically focused on issues surrounding design of products for underserved populations. Susan has been internationally recognized for achievements in design innovation from Nike, The United States Olympic Committee, Vogue Magazine, Fast Company, Sports Illustrated, the New York Times, Design Museum London, and Volvo. She holds over 45 U.S. patents and 65 foreign patents. A motivational coach and mentor, Susan is committed to inspiring students in product design, development and business. Susan is a graduate of the University of Minnesota (PhD), Cornell University (MA) and the Fashion Institute of Technology (BFA). At the University of Oregon, she is a Professor of Product Design and the Founding Director of the Sports Product Design MS Program.



DAVID SIMCHI-LEVI, is a Professor of Engineering Systems at MIT. He is considered one of the premier thought leaders in supply chain management and business analytics. His research, see Data Science Lab, focuses on developing and implementing robust and efficient techniques for operations management. He has published widely in professional journals on both practical and theoretical aspects of supply chain and revenue management. He was the founder of LogicTools, which provided software solutions and professional services for supply chain optimization. LogicTools became part of IBM in 2009. In 2012, he co-founded OPS Rules, an operations analytics consulting company. The company became part of Accenture in 2016. In 2014, he co-founded Opalytics, a cloud analytics platform company focusing on operations and supply chain intelligence. The company became part of the Accenture Applied Intelligence in 2018.



JEFF STULL, M.S., is the president of International Personnel Protection, Inc. He is a member of several NFPA committees on PPE as well as the ASTM International Committee on protective clothing. Mr. Stull was formerly the convener for international work groups on heat/thermal protection and hazardous materials PPE as well as the lead U.S. delegate for International Standards Organization Technical Committee 94/Subcommittees on Protective Clothing and Firefighter PPE. He participates in the Interagency Board for Equipment Standardization and Interoperability and co-authored the book, "PPE Made Easy."

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JON SZALAJDA, is the Deputy Director for the National Personal Protective Technology Laboratory at the National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention. He earned his Master's Degree in Industrial Engineering in Manufacturing Systems Engineering from the University of Pittsburg. He also earned his Master's of Engineering Degree from The George Washington University and his Bachelor's Degree in Chemical Engineering from Penn State University.



CHRIS TANG, is a University Distinguished Professor and the holder of the Edward W. Carter Chair in Business Administration at the UCLA Anderson School of Management. He has been elected as Fellow of INFORMS, MSOM society, and POM society. Known as a thought leader in global supply chain management, Mr. Tang consulted with numerous global companies including Amgen, Amazon, HP, IBM, Nestlé (USA), etc.; taught at Stanford University, UC Berkeley, Hong Kong University of Science and Technology, National University of Singapore, MIT (Zaragoza), and London Business School. Mr. Tang has published 7 books, 30 book chapters, over 200 research articles in global supply chain management. He has also published over 100 articles in public media, including Wall Street Journal, Financial Times, Barron's, Bloomberg Law, Forbes, Fortune, Los Angeles Times, South China Morning Post, China Daily, etc. He received his B.Sc. (First class honours in Mathematics) from King's College, London, M.A (in Statistics), M.Phil. (in Administrative Science), and PhD (in Management Science) from Yale University.



JESSICA TREDINNICK, MPH, CIH, CSP, manages a global team of standards development, regulatory affairs, and policy professionals for 3M's Personal Safety Division. Prior to this role, Jessica served as the Respirator Fit Marketing Manager, driving the developing digital fit solutions, managing respirator fit studies, and helping to increase quality and compliance in respirator fit testing around the world. Jessica also spent 8 years supporting 3M's respiratory protection customers as an application engineer. Ms. Tredinnick has a background in occupational health and safety, having previously been a member of 3M's Corporate Industrial Hygiene team and a coordinator of hazardous materials and first responder trainings at the University of Minnesota. She is currently serving on the Executive Committee of the Board of Directors of the International Society for Respiratory Protection.

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CORY WORDEN, M.S., CSP, CSHM, CHSP, ARM, REM, CESCO, has worked in the development, implementation, and management of Safety, Health, Environmental, Emergency Management, and Training programs for over 19 years and has a wealth of experience in CBRNE operations, public health, healthcare, military, manufacturing, and municipal government operations. He has developed and implemented safety systems affecting over 30,000 employees at a time and has been the ICS

Safety Officer on major City-wide and healthcare system responses to COVID-19, Ebola, and more. Mr. Worden is currently the Safety Advisor for the City of Houston Risk Management Division and works City-wide as the Chemical, Biological, Radiological, Nuclear, and Explosive (CBRNE) Hazards/Threats Safety Advisor and with the Houston Health Department as their Safety Advisor. His nine books were published between 2013 and 2020 and his 101 articles have been published by the American Society for Safety Professionals, National Safety Council, the Association for Occupational Health Professionals, EHS Today, OHS Magazine, the Institute for Safety and Health Management, and more. Mr. Worden has received 11 major recognitions and multiple military medals and awards including the 2022 ASSP Communities of Practice Safety Professional of the Year and a 2022 ASSP Culbertson award recipient for volunteer service.



JOE WORPLE, is a Senior Design Engineer for Milwaukee Tool, where he previously served as a Materials Engineer. In his current role he assist with materials selection and material level testing for new safety product development. Prior to joining Milwaukee Tool, Mr. Worple was a Research and Development Engineer for Miniature Precision Components, where he worked in the Research and Development Department and specialized in new technology development. Mr. Worple earned his Bachelor's Degree in Materials Science Engineering from the University of Wisconsin- Madison where he graduated with honors.