Speaker Biographies

JOSEPH G. ALLEN is Director of the Healthy Buildings program and an Associate Professor at Harvard's T. H. Chan School of Public Health. Before joining the faculty at Harvard, he spent several years in the private sector leading teams of scientists and engineers to investigate and resolve hundreds of indoor environmental quality issues, including "sick buildings," cancer clusters, and biological/chemical hazards. His academic research focuses on the critical role the indoor built environment plays in our overall health. Dr. Allen earned his D.Sc and MPH from the Boston University School of Public Health and a BS from Boston College.

JOSHUA BAROCAS is an Assistant Professor of Medicine at the Boston University School of Medicine and Infectious Diseases physician at Boston Medical Center. He received his medical degree from the George Washington University School of Medicine and Public Health. He completed his Internal Medicine residency at the University of Wisconsin Hospitals and Clinics and a fellowship in Infectious Diseases at Massachusetts General Hospital and Brigham and Women's Hospital. His research focuses on the intersection of infectious diseases and vulnerable populations including those struggling with substance use and homelessness. Throughout the pandemic, he provided infection prevention and control expertise to the City of Boston and state of Massachusetts as well as organizations committed to keeping vulnerable populations safe and protected. He received his medical degree from the George Washington University School of Medicine and Public Health.

IVAN BASSATO is the Executive Vice President, Airport Management, at the Aeroporti di Roma. He has been working in the air transport industry in the last 20 years. Initially active as transportation consultant and project engineer, he joined Aeroporto di Bologna SpA in 2001, the company that manages Bologna Airport, where he was employed as Airport Infrastructures Manager. In 2006 he moved to SAGAT SpA, the managing company of Turin Airport, as Vice President Operations. In 2009, he became the Director General Operations and Accountable Manager of Air Dolomiti, the Italian subsidiary airline of the Lufthansa Group, a position that he held until May 2015. From June 2015 he is the Airport Management Executive Vice President of Aeroporti di Roma. He is also the Accountable Manager for Rome Fiumicino and Rome Ciampino airports, the Chairman of ADR TEL, the telecom & ICT subsidiary of Aeroporti di Roma, and the Chairman of ADR Security, provider of aviation security services to the Aeroporti di Roma Group. Mr. Bassato graduated in Transportation Engineering from the University of Padova and earned the Postgraduate Diploma in Advanced Management at the ESMT - European School of Management and Technology in Berlin.

JOHN-PAUL CLARKE is a professor of Aerospace Engineering and Engineering Mechanics at The University of Texas at Austin, where he holds the Ernest Cockrell, Jr. Memorial Chair in Engineering. Prior to joining the faculty at UT Austin, he was a faculty member at Georgia Tech, the Vice President of Strategic Technologies at United Technologies Corporation (now Raytheon), a faculty member at MIT, and a researcher at Boeing and NASA JPL. He has also co-founded multiple companies, most recently Universal Hydrogen – a company dedicated to the development of a comprehensive carbon-free solution for aviation. Clarke is a leading expert in aircraft trajectory prediction and optimization, especially as it pertains to the development of flight procedures that reduce the environmental impact of aviation, and in the development and use of stochastic models and optimization algorithms to improve the efficiency and robustness of aircraft, airline, airport, and air traffic operations. As indicated in his 2018 testimony to the Science Committee of the U.S. House of Representatives, he is particularly interested in leveraging his expertise to enable increasingly autonomous aircraft-enabled mobility, especially in urban and regional settings. His contributions to aerospace extend well beyond his research. Clarke is the founding chair of the AIAA Human-Machine Teaming Technical Committee, was co-chair of the National Academies Committee that developed the US National Agenda for Autonomy Research related to Civil Aviation, and has chaired or served on advisory and technical committees chartered by the AIAA, EU, FAA, ICAO, NASA, the National Academies, the US Army, and the US DOT. His research and contributions to aerospace earned him many honors, including the 1999 AIAA/AAAE/ACC Jay Hollingsworth Speas Airport Award, the 2003 FAA Excellence in Aviation Award, the 2006 National Academy of Engineering Gilbreth Lectureship, and the 2012 AIAA/SAE William Littlewood Lectureship. He is a Fellow of the AIAA, and is a member of AGIFORS, INFORMS, and Sigma Xi. Clarke received S.B. (1991), S.M. (1992), and Sc.D. (1997) degrees in aeronautics and astronautics from MIT.

JOSH COHN is an experienced airport planner with a diverse background in terminal and capacity planning, simulation modeling, ground access, and derivative forecasting. He has been solving complex terminal planning

problems for over 12 years, with the last five as a lead terminal planner in InterVISTAS' Airport Planning Group. Josh has managed terminal capacity planning analyses and simulation projects at numerous airports around the world. Using sophisticated planning tools as well as guidance from ACRP and IATA, he develops planning solutions which integrate level of service requirements with emerging technologies and processes. He is intimately familiar with applicable design guides, throughputs, and standards for various terminal processing facilities and brings a deep understanding of the airline industry, including fleet, route network, and technology developments. Josh was a noted contributor to the recent 11th edition of the IATA Airport Development Reference Manual (ADRM), focusing on the importance derivative design day flight schedules play in the planning process. He has extensive experience working with airport operators and regulators in the United States and abroad. Earlier in his career, Josh supported the Transportation Security Administration's Electronic Baggage Screening Program, leading cost effectiveness analyses for proposed optimization and recapitalization projects. He is also a member of the Airport Consultants Council (ACC) Terminal & Facilities Committee as well as the American Association of Airport Executives (AAAE) Operations, Safety, Planning, Emergency Management (OSPEM) Committee. Josh graduated with a Master of Science in Transportation Engineering from the University of California, Berkeley and a Bachelor of Science in Civil Engineering from Washington University in St. Louis.

MICHAEL P. DELANEY is the Chief Aerospace Safety Officer and Senior Vice President, Global Aerospace Safety, for The Boeing Company and a member of its Executive Council. In this role, Delaney is responsible for strengthening the safety processes at Boeing and developing the company's comprehensive Global Aviation Safety strategy, including integrated responsibility for Product & Services Safety, Aerospace Safety Analytics, Global Aviation Safety System, and Boeing's Confident Travel Initiative to help the aviation industry safely resume global air travel amid the Covid-19 pandemic. Delaney holds a bachelor's degree in aerospace engineering from Hofstra University, and a Master of Business Administration from the Toulouse Business School. Delaney is a Fellow of the American Institute of Aeronautics and Astronautics (AIAA).

VICTOR J. DZAU is the President of the National Academy of Medicine (NAM). In addition, he serves as Vice Chair of the National Research Council. Dr. Dzau is Chancellor Emeritus and James B. Duke Professor of Medicine at Duke University and the past President and CEO of the Duke University Health System. Previously, Dr. Dzau was the Hersey Professor of Theory and Practice of Medicine and Chairman of Medicine at Harvard Medical School's Brigham and Women's Hospital, as well as Chairman of the Department of Medicine and Director of the Falk Cardiovascular Research Center at Stanford University. Dr. Dzau has made a significant impact on health and medicine through his seminal research in cardiovascular medicine and genetics and his leadership in health innovation. He is a member of the National Academy of Medicine, the American Academy of Arts and Sciences, and the European Academy of Sciences and Arts. He earned his M.D. and his B.S. in Biology from McGill University in Montreal, Canada.

LAURIE GARROW is is Co-Director of the Center for Urban and Regional Air Mobility (CURAM) at Georgia Tech. She is an expert in aviation, travel behavior, data analytics, and discrete choice modeling. Her research interests are in urban and regional air mobility, airline passenger behavior, data analytics, travel behavior analysis and forecasting. She is a 2013 recipient of the Walter L. Huber Civil Engineering Research Prize and the 2009 recipient of the Council of University Transportation Centers-American Road & Transportation Builders Association (CUTC-ARTBA) New Faculty Member Award. Her teaching contributions have been recognized via the institute-level award given by the Center for the Enhancement of Teaching and Learning, namely the CETL-BP Junior Faculty Teaching Excellence Award. Dr. Garrow has five years of industry experience, including four years as an analyst in the Research and Development Revenue Management Group of United Airlines and one year as an analyst in the Customer Science Unit of Mercer Management Consulting. Dr. Garrow earned her Ph.D. in Civil Engineering from Northwestern University. She earned her M.S. in Civil Engineering and M.P.Affairs from the University of Texas at Austin.

CHARLES P. GERBA is a professor of Environmental Virology in the Departments of Environmental Science (College of Life Sciences and Agriculture), and Community and Environmental Health (College of Public Health) at the University of Arizona. He has been an author on more than 700 articles including several books in environmental microbiology. He is a fellow of the American Association for the Advancement of Science and the American Academy of Microbiology. He served on the Environmental Protection Agency Science Advisory Board for 9 years, and the Food and Drug Administration Science Advisory Board for 3 years. He conducts research on infectious disease transmission in indoor environments, application of quantitative microbial risk assessment to

quantify interventions to reduce disease transmission and cost: benefit analysis; assessment of novel disinfectants ls against emerging pathogens, and identification of reservoirs of pathogens in the environment (surfaces, water, food). Dr. Gerba earned his Ph.D. in microbiology from the University of Miami.

CELINE GOUNDER is a practicing HIV/infectious diseases specialist and internist, epidemiologist (aka disease detective), journalist and filmmaker. She's written for The New Yorker, The Atlantic, The Guardian US, The Washington Post, Reuters, Quartz, Sports Illustrated and Bloomberg View. She's a frequent expert guest on MSNBC, CNN, HLN, Al Jazeera America, CBS, BBC, MTV and Oprah Prime. She's best known for her print and TV coverage of the Ebola, Zika and opioid abuse epidemics. In early 2015, Dr. Gounder spent two months volunteering as an Ebola aid worker in Guinea. In her free time, she interviewed locals to understand how the crisis was affecting them. She is currently making Dying to Talk, a feature-length documentary about the Ebola epidemic in Guinea. Between 1998 and 2012, she studied TB and HIV in South Africa, Lesotho, Malawi, Ethiopia and Brazil. While on faculty at Johns Hopkins, Dr. Gounder was the Director for Delivery for the Gates Foundation-funded Consortium to Respond Effectively to the AIDS/TB Epidemic. She later served as Assistant Commissioner and Director of the Bureau of Tuberculosis Control at the New York City Department of Health and Mental Hygiene. She received her BA in Molecular Biology from Princeton University, her Master of Science in Epidemiology from the Johns Hopkins Bloomberg School of Public Health, and her MD from the University of Washington. Dr. Gounder was an intern and resident in Internal Medicine at Harvard's Massachusetts General Hospital, and a post-doctoral fellow in Infectious Diseases at Johns Hopkins University. She was elected a fellow of the Infectious Diseases Society of America in 2016.

COLLEEN N. HARTMAN joined the National Academies in 2018, as director for both the SSB and the ASEB. After beginning her government career as a presidential management intern under Ronald Reagan, Dr. Hartman worked on Capitol Hill for House Science and Technology Committee Chairman Don Fuqua, as a senior engineer building spacecraft at NASA Goddard Space Flight Center and as a senior policy analyst at the White House. She has served as Planetary Division director, deputy associate administrator and acting associate administrator at NASA's Science Mission Directorate, as deputy assistant administrator at NOAA, and as deputy center director and director of science and exploration at NASA Goddard. Dr. Hartman has built and launched scientific balloon payloads, overseen the development of hardware for a variety of Earth-observing spacecraft, and served as NASA program manager for dozens of missions, the most successful of which was the Cosmic Background Explorer (COBE). Data from the COBE spacecraft gained two NASA-sponsored scientists the Nobel Prize in physics in 2006. She also played a pivotal role in developing innovative approaches to powering space probes destined for the solar system's farthest reaches. While at NASA Headquarters, she spearheaded the selection process for the New Horizons probe to Pluto. She helped gain administration and congressional approval for an entirely new class of funded missions that are competitively selected, called "New Frontiers," to explore the planets, asteroids, and comets in the solar system. She has several master's degrees and a Ph.D. in physics. Dr. Hartman has received numerous awards, including two prestigious Presidential Rank Awards.

WILLIAM A. HASELTINE has a prolific career in science, business, and philanthropy around the world. He was a professor at Harvard Medical School and Harvard School of Public Health, and he is well-known for his pioneering work on cancer, HIV/AIDS, and genomics. He has founded more than a dozen biotechnology companies, including Human Genome Sciences, and he serves on advisory boards for numerous international entities, from the Brookings Institution to the Council on Foreign Relations. He has authored more than 200 manuscripts in peer reviewed journals. He is currently Chair and President of ACCESS Health International, Inc., a Foundation active in the United States, India, China, Singapore, and the Philippines. Dr. Haseltine earned his Ph.D. in biophysics from Harvard University and his B.A. from the University of California, Berkeley.

VICKI STOVER HERTZBERG is Professor in the Nell Hodgson Woodruff School of Nursing at Emory University, Atlanta, GA, where she directs the Center for Data Science. She has secondary faculty appointments in the Department of Computer Science, Department of Mathematics, and Department of Biostatistics and Bioinformatics. She is an internationally-recognized expert on "big data" and its impact on health care. She is widely known for her work measuring the social contacts in emergency departments and disease transmission on airplanes. Her research has been funded by the National Library of Medicine, National Institute of Neurologic Disorders and Stroke, National Institute of Environmental Health, and the National Institute of Allergy and Infectious Disease. Her work has been published in high-impact journals, including Proceedings of the National Academy of Science, New England Journal of Medicine, PLoS one, and Pediatrics. She is a Fellow of the American Statistical Association, and

elected member of the International Statistical Institute, and a member of Phi Beta Kappa. She received her BS cum laude from Miami University (Oxford, OH) and her PhD from the University of Washington (Seattle, WA).

ASHISH K. JHA is recognized globally as an expert on pandemic preparedness and response as well as on health policy research and practice. He has led groundbreaking research around Ebola and is now on the frontlines of the COVID-19 response, leading national and international analysis of key issues and advising state and federal policy makers. Dr. Jha has published more than two hundred original research publications in prestigious journals such as the New England Journal of Medicine and the BMJ, and is a frequent contributor to a range of public media. He has extensively researched how to improve the quality and reduce the cost of health care, focusing on the impact of public health policy nationally and around the globe. On September 1, Dr. Jha started his role as the Dean of the School of Public Health at Brown University. Before that, Dr. Jha was a faculty member at the Harvard T.H. Chan School of Public Health since 2004 and Harvard Medical School since 2005. He was the Faculty Director of the Harvard Global Health Institute from 2014 until September 2020. From 2018 to 2020, he served as the Dean for Global Strategy at the Harvard T.H. Chan School of Public Health. A general internist previously with the West Roxbury VA in Massachusetts, Dr. Jha will continue his practice at the Providence VA Medical Center. In 1992, Dr. Jha graduated Magna Cum Laude from Columbia University with a B.A. in economics. He received his M.D. from Harvard Medical School in 1997 and then trained as a resident in Internal Medicine at the University of California, San Francisco. He returned to Boston to complete his fellowship in General Medicine from Brigham and Women's Hospital and Harvard Medical School. In 2004, he completed his Master of Public Health degree at the Harvard T.H. Chan School of Public Health. He was elected to the National Academy of Medicine in 2013.

PINAR KESKINOCAK is the William W. George Professor and Chair in the School of Industrial and Systems Engineering at Georgia Tech. She is the co-founder and Director of the Center for Health and Humanitarian Systems at Georgia Tech. Her expertise spans infectious disease modeling and supply chain management to address challenges in infectious disease prevention and control, utilizing a multi-disciplinary and multi-stakeholder systems perspective. Her research has focused on disease modeling, evaluating intervention strategies, and resource distribution for a variety of infectious diseases, such as Covid-19, Guinea worm, malaria, pandemic flu, and polio. She also has extensive experiences in process improvement for healthcare delivery as well as disaster preparedness, response, recovery. She has collaborated with a variety of organizations including CARE, Carter Center, Centers for Disease Control and Prevention, Children's Healthcare of Atlanta, Georgia Department of Public Health, Task Force for Global Health. Her research has been published in several leading academic journals including American Journal of Tropical Medicine and Hygiene, Annals of Allergy, Asthma & Immunology, Critical Care Medicine, Journal of Asthma, Manufacturing & Service Operations Management, Operations Research, Prenatal Diagnosis, Transplant Infectious Disease, PLoS One, Vaccine. Dr. Keskinocak received her Ph.D. in Operations Research from Carnegie Mellon University, and her M.S. and B.S. in Industrial Engineering from Bilkent University.

DAVID KIPP is Vice President of Technology Services at Burns Engineering. He has experienced many perspectives on transportation and technology infrastructure. Having practiced on every continent (except Antarctica) as an engineer, project manager and project executive, he is an expert in the science of technology systems, the engineering of major design and construction projects, and the art of forming lasting relationships with his clients and colleagues. Burns provides consulting engineering and design for complex systems these industries, including security and information technology, airfield lighting, navigational aids, airport infrastructure and energy efficiency. The firms serves many of the most challenging and admired clients in the US: Port Authority of New York and New Jersey, Metropolitan Washington Airports Authority, Los Angeles World Airports, Phoenix Sky Harbor International Airport, Amtrak, SEPTA, NYMTA, Miami International Airport and San Francisco International Airport. He serves on the Board of Directors for the Airports Council International World Business Partners, and the Airport Consultants Council. He has been a host and speaker at transportation industry technology conferences, led the IT & Systems committee of the ACC and the Airport Planning, Design and Construction Symposium. He also serves on the Engineering Advisory Board for Saint Louis University and has contributed dozens of technical articles, management briefs and book chapters. He earned his M.S. in Aerospace Systems Engineering at the University of Cincinnati and his B.S. in Mechanical Engineering at the University of Kansas.

LINDSEY LEININGER is a public health educator and researcher with expertise in data-driven health policy. Her primary focus is teaching and translating quantitative methods to health care leaders; over her career she has taught and trained physicians, policymakers, and executives. At Tuck she teaches courses at the intersection of health analytics, public health, and the health care industry. Prior to joining Dartmouth, she spent a decade designing and

leading advanced analytics projects for the Medicaid program, both in academic and think-tank settings. Lindsey received her PhD from the University of Chicago Harris School of Public Policy.

FRANCESCO MANCA is a Research Associate at Urban Systems Lab, Department of Civil & Environmental Engineering, Imperial College London. His research focuses on the development of advanced statistical and econometric models for the analysis and forecast of new projects and policies related to different transportation sectors and smart cities. He is currently working on the EPSRC project Airport Capacity Consequences Leveraging Aviation Integrated Modelling and the EU Horizon 2020 project Sharing Cities. His research has been presented in several peer-reviewed international conferences and published in top-tier transportation journals including Transportation, Transportation Research Part A and Part C. He previously worked at the Technical University of Denmark within the European project "Green eMotion" and in the private transport sector as transport planner providing solutions for major urban projects. Francesco was awarded his PhD Degree in Transport Engineering by Imperial College London, which he joined as an Imperial College President's PhD Scholar, supported by EPSRC. His PhD research focused on modelling the effects of direct and indirect social influence processes on transport demand and travel behaviour in the context of new technologies and services. He holds his undergraduate and first master's degrees in Civil Engineering and Transportation from the University of Cagliari (Italy) and his second master's degree in Transportation and Logistics from the Technical University of Denmark (DTU).

VALERIE M. MANNING is the senior vice president of Customer Support at Airbus. She is responsible for the relationship and interaction between Airbus and all aircraft owners, operators, and maintainers of the more than 9,000 Airbus aircraft in service around the world. As such, Manning leads a large team of professionals residing globally— including the worldwide field service team, the customer support directors, the Airbus warranty program, credit and cash management, and all support or services contracts from initial aircraft sale until aircraft decommissioning. Manning has more than 25 years of service in government and civilian roles at Airbus, the United States Air Force, and McKinsey and Company. Prior to her current role, Manning served as vice president and head of Airbus Upgrade Services, where she led the sale, development, certification, and delivery of optional modifications to airframes, cabins, and systems for the Airbus fleet. At the parent company of Airbus, EADS (now merged with Airbus), Manning has served as the vice president and chief of staff to the Chief Technical Officer (CTO). She has also served on A380 and A400M technical assessment teams and has managed an EADS technology development and commercialization program. In her first role with EADS, Manning served as director of Strategy and Mergers and Acquisitions in North America. This position was preceded by employment as a consultant with McKinsey and Company, concentrating on aerospace and high-tech (internet) consulting. She also consulted privately in multidisciplinary optimization and supersonic design. Before McKinsey, Manning was employed General Motors as an aerodynamics engineer. She began her career in the U.S. Air Force and has served continuously on active duty or in the reserves since her commission upon graduation from university. This has included assignments in Manpower at Kelly Air Force Base, Acquisitions Security at the Space and Missile Systems Center at Los Angeles Air Force Base, the Air Force Scientific Advisory Board Secretariat, the Joint Reserve Directorate within the Office of the Secretary of Defense, and as a member of the U.S. Air Force World Class Athlete Program where she represented the Air Force around the world in athletics competitions and competed in two Olympic Trials. Manning is a graduate of Air War College and completed Advanced Joint Professional Military Education at National Defense University's Joint Forces Staff College. She currently residing in Toulouse, France, is an active instrument-rated pilot, and an associate fellow of the American Institute of Aeronautics and Astronautics. Manning graduated from Princeton University with a B.S. in mechanical and aerospace engineering, going on to earn an M.S. and Ph.D. in aeronautics and astronautics from Stanford University with concentrations in supersonic aircraft design, natural laminar flow, and multidisciplinary optimization. She complemented these degrees with a minor concentration in Orthopaedic Biomechanics. She has previously served on the Aeronautics and Space Engineering Board, and Aeronautics 2050 - A Workshop.

LEONARD MARCUS is founding Director of the Program for Health Care Negotiation and Conflict Resolution at the Harvard T.H. Chan School of Public Health. Dr. Marcus is also founding Co-Director of the National Preparedness Leadership Initiative, a collaborative effort of HSPH and the Kennedy School of Government, developed in collaboration with the Centers for Disease Control and Prevention, the White House, and the Department of Homeland Security, and the Department of Defense. His research interests include: factors associated with the coordination of effort for national and international terrorism response strategies; implications of conflict in health care services; the uses of mediation for resolving health disputes; the contributions of conflict resolution to error prevention in health care; as well as on the role health can play in resolving larger social conflict. In recent

years, Dr. Marcus has played a leading national and international role in terrorism preparedness and emergency response, developing the conceptual and pragmatic basis for "connectivity" — the coordination of "people, organizations, resources, and information to best catch, contain, and control a terrorist or other public health threat," and "meta-leadership"- "overarching leadership that strategically links the work of different agencies and levels of government." Dr. Marcus completed his doctoral studies at The Heller School of Brandeis University.

CRISTIAN IONUT is a medical expert in the Aircrew & Medical Department at the European Union Aviation Safety Agency. He is a medical doctor specialized in family medicine and aviation medicine. Prior to taking his current post at the European Union Aviation Safety Agency, he was a medical assessor of the Romanian Civil Aviation Authority.

SASKIA POPESCU is an internationally recognized and experienced infectious disease epidemiologist and infection preventionist with a strong background in enhancing healthcare biopreparedness, infectious disease threats, pandemic preparedness/response, project management, translation of complex issues into frontline applications, and disease surveillance. Dr. Popescu is an Assistant Professor within the Biodefense graduate program at George Mason University, serving as a consultant with the World Health Organization and helping to lead the Netflix infection prevention efforts for return to production work. She is also an Affiliate of the Georgetown University Center for Global Health Science and Security, an adjunct professor in the University of Arizona College of Public Health Epidemiology and Biostatistics program, and served as a signatory on the NGO statement for the Biological Weapons Convention. Dr. Popescu is an Alumni Fellow of the Emerging Leaders in Biosecurity Initiative (ELBI) at the Johns Hopkins Bloomberg School of Public Health, Center for Health Security. She currently serves as a member of the Federation of American Scientists (FAS) Coronavirus Taskforce and is a member of the Committee on Data Needs to Monitor Evolution of SARS-CoV-2 within the Health and Medicine Division of the National Academies of Sciences, Engineering, and Medicine (NASEM). Dr. Popescu has created and disseminated a gap analysis for a six-hospital system to establish vulnerabilities for high-consequence diseases, helping to guide the creation of a high-consequence disease initiative to enhance readiness at the healthcare level. This work aided in rapid and coordinated responses to COVID-19. Her assessment and leadership regarding healthcare biopreparedness efforts has resulted in several peer-reviewed literature. She is certified in infection prevention (CIC), hospital preparedness through FEMA's NIMS, and pandemic preparedness from the DHS Center for Domestic Preparedness. Popescu's research addresses gaps within global health security, biodefense, healthcare biopreparedness, and the integration of antimicrobial resistance into global health security initiatives. Dr. Popescu received her PhD in Biodefense from the Schar School in 2019; a Master's in Public Health with a focus on infectious disease epidemiology and a Master's of Arts in International Security Studies from the University of Arizona.

NOBUYO REINSCH as Vice President of Aviation Safety & Security at the Regional Airline Association. She was most recently Director of Government Affairs-Security for the Aircraft Owners and Pilots Association (AOPA). At RAA, she provides subject matter expertise on issues related to safety and security. She will serve on industry operations and technical task forces and working groups, including agency rulemaking and regulatory negotiating committees, and act as a liaison between RAA and FAA and TSA. She earned her M.S in Project Management and in Tourism Administration from George Washington University School of Business.

CAITLIN RIVERS is a Senior Scholar at the Johns Hopkins Center for Health Security and an Assistant Professor in the Department of Environmental Health and Engineering at the Johns Hopkins Bloomberg School of Public Health. Her research focuses on improving public health preparedness and response, particularly by improving capabilities for "outbreak science" and infectious disease modeling to support public health decision making. Dr. Rivers participated as author or contributor in influential reports that are guiding the US response to COVID-19, including National Coronavirus Response: A Roadmap to Reopening; A National COVID-19 Surveillance System: Achieving Containment; Filling in the Blanks: National Research Needs to Guide Decisions about Reopening Schools in the United States; and A National Plan to Enable Comprehensive COVID-19 Case Finding and Contact Tracing in the US. She is the lead author on the report Public Health Principles for a Phased Reopening During COVID-19: Guidance for Governors which is being used by, the National Governors Association, the state of Maryland, and the District of Columbia to guide reopening plans. In May 2020, Dr. Rivers testified in front of the House Appropriations Subcommittee on Labor, Health and Human Services, Education and Related Agencies on the COVID-19 Response. Dr. Rivers earned her Ph.D. and MPH from Virginia Tech and her BA at the U. of New Hampshire.

STEFAN ROEMELT is Senior Vice President of Engineering, Cabin and Cargo and Airbus.

JOSHUA SANTARPIA is an associate professor of pathology and microbiology at the University of Nebraska Medical Center and Research Director of Chemical and Biological Programs at the National Strategic Research Institute (NSRI). His research interests include aerosol transmission of disease; detection, measurement and characterization of bioaerosols; atmospheric chemistry of bioaerosols; and bacteriophage for therapeutic and industrial uses. He earned his Ph.D. and M.S. from Texas A&M University and his B.S. from the New Mexico Institute of Mining and Technology.

HASSAN SHAHIDI is the President of the Flight Safety Foundation, an independent, nonprofit, international organization engaged in research, education, advocacy and communications to improve aviation safety. Prior to that, he was director of aviation safety and new entrant integration at MITRE. He played a leading role in the development of the highly regarded Aviation Safety Information Analysis and Sharing (ASIAS) capability, which enables government and industry to proactively identify safety issues. He helped extend the data sharing concept to Asia Pacific, with the launch of the AP-Share initiative, a collaborative partnership with the Foundation to promote and advance safety data sharing in the fast-growing region.

JOHN SPENGLER is the Akira Yamaguchi Professor of Environmental Health and Human Habitation, and Director of the JPB Environmental Health Fellowship Program at the Harvard T.H. Chan School of Public Health and has conducted research on personal monitoring, air pollution health effects, indoor air pollution, and a variety of environmental sustainability issues. Several of his investigations have focused on housing design and its effects on ventilation rates, building materials' selection, energy consumption, and total environmental quality in homes. Spengler chaired the committee on Harvard Sustainability Principles; and served on Harvard's Greenhouse Gases Taskforce to develop the University's carbon reduction goals and strategies, as well as Harvard's Greenhouse Gases Executive Committee. He serves on the National Academies Health and Medicine Division "Roundtable on Environmental Health Sciences, Research and Medicine", and recently served on the Alfred P. Sloan Foundation's Chemistry of Indoor Environments advisory committee. Previously he chaired the National Academies Institute of Medicine "Committee on Effect of Climate Change on Indoor Air Quality and Public Health"; and he has served as an advisor to the World Health Organization on indoor air pollution, personal exposure and air pollution epidemiology. In 2003, Spengler received a Heinz Award for the Environment; in 2007, the Air & Waste Management Association Lyman Ripperton Environmental Educator Award; in 2008, the Max von Pettenkofer Award for distinguished contributions in indoor air science from the International Society of Indoor Air Quality & Climate's Academy of Fellows; and in 2015, the ASHRAE Environmental Health Award. He earned his Ph.D. at the State University of New York at Albany and an M.S. from the Harvard School of Public Health.

DAVID R. WALT is the Hansjörg Wyss Professor of Bioinspired Engineering at Harvard Medical School and Professor of Pathology at Harvard Medical School and Brigham and Women's Hospital, is a Core Faculty Member of the Wyss Institute at Harvard University, Associate Member at the Broad Institute, and is a Howard Hughes Medical Institute Professor. Dr. Walt is co-Director of the Mass General Brigham Center for COVID Innovation. Dr. Walt is the Scientific Founder of Illumina Inc., Quanterix Corp., and has co-founded several other life sciences startups including Ultivue, Inc., Arbor Biotechnologies, Sherlock Biosciences, and Vizgen, Inc. He has received numerous national and international awards and honors for his fundamental and applied work in the field of optical microwell arrays and single molecules. He is a member of the National Academy of Engineering, the National Academy of Medicine, a Fellow of the American Academy of Arts and Sciences, a Fellow of the American Institute for Medical and Biological Engineering, a Fellow of the American Association for the Advancement of Science, a Fellow of the National Academy of Inventors, and is inducted in the US National Inventors Hall of Fame.

MYLES WALTON is Managing Director at UBS. Prior to that, he was Managing Director at Deutsche Bank and at Oppenheimer & Co. Dr. Walton earned his Ph.D. and M.S. in Aerospace Engineering at the Massachusetts Institute of Technology and his B.S. in Mechanical Engineering at Worchestor Polytechnic Institute.

JAMES WILTSHIRE has been Assistant Director External Affairs, since January 2019. In this role, he is responsible for developing IATA policy relating to consumer affairs, better regulation and regulatory competitiveness. As assistant to IATA's Medical Advisor, James has been at the forefront of IATA's response to the Coronavirus pandemic. He joined IATA's Economics Department in 2013 and was Head of Policy Analysis for IATA in April 2015. In this capacity he is responsible for the Association's economic analysis of aviation policy

issues, delivering robust analysis, insight and evidence in support of the industry's efforts to promote smart and proportionate policies and regulatory frameworks around the world. He is able to draw on extensive government and regulatory experience having worked as a Senior Economist for both the UK Civil Aviation Authority, where he led both the CAA's input to the national aviation policy framework and its assessment of long-term capacity requirements, and the UK Department for Transport, where he was responsible for appraisal of major investment projects.