

Lithium Battery Air Safety Advisory Committee

As of January 2020

Appointee Bios

Captain Bob Brown, Coalition of Airline Pilots Associations

Captain Brown currently serves as the Vice President of the Coalition of Airline Pilots Associations. He is also a Boeing 757/767 Captain at UPS Airlines and a member of the Independent Pilots Association (IPA). Captain Brown most recently served as Chairman of the IPA Safety Task Force, which led to the development a third-party validation process for transporting batteries on aircraft. These efforts have led to speaking opportunities in the United States, Canada, Europe, China, and Japan. He has also conducted briefings for House and Senate staff and members of Congress on this safety initiative. Other government roles include participation on the Aviation Safety Information Analysis and Sharing FAA Aviation Rulemaking Committee, the High Energy Fire Training Enhancements working group, and the Commercial Aviation Safety Team. He has also served as IPA Communication Chairman, Safety Chairman, Director of Airline Safety & Training, and IPA Executive Board Vice President. Apart from aviation interests, he serves on the Advisory Board for Opals Dream Foundation, a charity he helped form in 2011. Captain Brown holds a Bachelor of Arts degree in Communication from the University of Wisconsin, Milwaukee.

Dr. J. Thomas Chapin, Underwriters Laboratories

Dr. Chapin is the Vice President of Research at Underwriters Laboratories, Inc., (UL) the Not for Profit parent organization of UL. He is a UL William Henry Merrill Society Corporate Fellow and past chairman of the UL Fire Council. In his current role, Dr. Chapin focuses on emerging technologies, safety trends, aging, failure and forensic analysis, and fire dynamics. Previously, he managed UL corporate research activities related to UL standards, testing and certification, and surveillance services. He joined UL in 2001 after a 21-year career at AT&T Bell Laboratories and three years at The Upjohn Company. He holds 17 patents in telecommunication product and materials science, has delivered over 300 technical presentations at conferences, and has 150 technical publications in chemistry, materials, and polymer science. He also serves as an Adjunct Professor at Case Western Reserve University lecturing on chemistry, polymer science, and fire dynamics. Dr. Chapin previously served as the past Chairman of the International Electrotechnical Commission (IEC) Technical Committee (TC-113) on Nanotechnology Standardization for Electrical and Electronic Components and Subsystems. He received his Bachelor of Science degree in Chemistry and a Ph.D. in Polymer Science from the Institute of Materials Science at the University of Connecticut.

James Davis, AccuFleet Testing

Mr. Davis is the President of AccuFleet Testing and Chairman of AccuFleet International. Mr. Davis has been involved in aviation and aviation safety testing since 1986. He is a Federal Aviation Administration (FAA) Designated Engineering Representative, and is an Engineering Unit Member for several aircraft manufacturers and modifiers which hold FAA Organizational Designation Authority. Mr. Davis has one of the few facilities actively testing lithium battery packaging for shipping by both air and ground. He has executive level leadership and detailed technical expertise in the areas of lithium battery testing, packaging testing, air cargo safety, and development of aviation safety standards. Mr. Davis also oversees an active ground handling

operation, which includes the loading of cargo into international passenger and cargo aircraft. In this role, he has responsibility for Dangerous Goods compliance. He received his Bachelor of Science degree in Electrical Engineering from Rice University, and a Master of Science degree in Operations Research and MBA from the Southern Methodist University.

Raju Desai, Apple

Mr. Desai serves as Senior Product Safety Engineer for Apple Inc. He is involved with the development of numerous product safety standards and global regulations where he focuses on safety issues regarding lithium batteries and cells including requirements for global certification, hazards of thermal runaway, field failures, and safe battery/cell transportation. Mr. Desai has developed new requirements for the standard for secondary lithium batteries and cells, standardizing a test method to induce thermal runaways and also a packaging standard for the safe air transportation of lithium batteries and cells. Previously, he worked for Cisco Systems in hardware and software safety and product reliability development. His work resulted in an innovative design to protect telecommunication devices from lightning strikes and electrical surges to developing a green protocol for routing information to control lighting and power consumption. Mr. Desai received his Bachelor of Science degree in Electrical Engineering and a minor in Mathematics from San José State University.

Doug Ferguson, Boeing

Mr. Ferguson serves as an Associate Technical Fellow for Boeing with expertise in cargo fire protection systems. He is a member of the Boeing Working Group addressing issues related to the carriage of lithium batteries as cargo, and co-chair of the Society of Automotive Engineers (SAE) G-27 committee. Mr. Ferguson has supported International Civil Aviation Organization (ICAO) Panels, and co-authored and presented the International Coordinating Council of Aerospace Industries Associations (ICCAIA) Working Paper to the ICAO Dangerous Goods Panel (DGP) recommending changes for the transport of lithium batteries. He is currently ICCAIA's panel member to the ICAO DGP. Prior to this, Mr. Ferguson was a member of the Commercial Aviation Safety Team SE-126 Working Group tasked with identifying strategies to mitigate the hazards of carrying dangerous goods, particularly lithium batteries. He actively supported the National Transportation Safety Board investigations of the 747-400F UPS and Asiana accidents resulting from in-flight cargo fires involving lithium batteries. Since 1998, Mr. Ferguson has been an active participant in the International Aircraft Systems Fire Protection Working Group and is part of the ICCAIA Cargo Compartment Halon Replacement Working Group. Mr. Ferguson holds a Bachelor of Arts degree in Physics from the University of Puget Sound and Bachelor of Science degree in Electrical Engineering from Columbia University.

George Kerchner, PRBA – The Rechargeable Battery Association

Mr. Kerchner serves as the Executive Director of PRBA – The Rechargeable Battery Association. He represents PRBA and its members on issues associated with the safe manufacturing, handling, transport, storage, recycling, and disposal of lithium batteries. He also represents PRBA at international transportation forums such as the United Nations Subcommittee of Experts on the Transport of Dangerous Goods, ICAO DGP, and the International Maritime Organization. Mr. Kerchner also works as a Senior Regulatory Analyst with the law firm of Wiley Rein LLP. He provides dangerous goods consulting services and regularly conducts training programs and audits for shippers of lithium batteries and other dangerous goods. Mr. Kerchner has a Master's degree in Environmental Science and Policy from John Hopkins University and a Bachelor of Arts degree from the University of Maryland.

Todd Mackintosh, General Motors

Mr. Mackintosh is a Technical Specialist for Electrification Standards & Regulations at General Motors. He has held various engineering positions covering manufacturing, product development, standards, and regulations. Mr. Mackintosh currently chairs the SAE Battery Transportation Committee and SAE Hybrid and Electric Vehicle Recommendations for First and Second Responders Task Force. He is also a member of the SAE G-27 Committee, and an expert for International Organization for Standardization TC22/SC36/WG7 developing standards for emergency response guides and propulsion identification. Mr. Mackintosh actively participates at the United Nations (UN) Informal Working Group on Lithium Batteries, and served as Director for PRBA since 2011. Mr. Mackintosh has been granted six patents and has been awarded General Motors' highest award for technical achievement, the Boss Kettering Award. SAE has recognized Mr. Mackintosh with the James M. Crawford Technical Standards Board Outstanding Achievement. Mr. Mackintosh received a Bachelor of Science degree in Manufacturing Engineering from Miami University and holds a Master of Energy Systems Engineering degree from University of Michigan.

Brandon Martin, Outdoor Power Equipment Institute

Mr. Martin serves as Director of Battery and Electric Products for the Outdoor Power Equipment Institute. He is responsible for standard and regulatory initiatives that affect the industry, focusing on battery and electric product fields. Mr. Martin is a participating member on multiple UL Standards Technical Panels and the International Electrotechnical Commission Technical Committee on Electric motor-operated hand-held transportable tools and lawn garden machinery. Mr. Martin leads committee activities around battery transportation and safety and is primarily responsible for any industry extended producer responsibilities around battery recycling throughout the United States and Canada. He has over 14 years of experience in product development and management of gas/battery/electric consumer and commercial, as well as robotic products, and off-road utility vehicles in the outdoor power equipment industry. Mr. Martin holds a Project Management Professional certification and a Bachelor of Science degree in Business Administration from the University of North Carolina at Charlotte.

Robert McClelland, UPS Airlines

Mr. McClelland is the Managing Director of Airline Safety, Compliance and Dangerous Goods for UPS Airlines. Prior to that, he had served as Acting Director of Airline Safety and led the Air Region Compliance group. Mr. McClelland is responsible for the FAA-approved program to include oversight of dangerous goods training and the Airline's compliance with both U.S. and international regulations. He has participated as a speaker in International Air Transport Association (IATA) Lithium Battery Workshops and World Cargo Symposiums. Mr. McClelland has attended and presented at several ICAO DGP meetings, focusing on lithium battery risk mitigation strategies. Additionally, Mr. McClelland presented on behalf of UPS

Airlines safety initiatives in multiple forums, including the Chinese Ministry of Transport in Beijing and the Underwriters Laboratory Safety Symposium in Tokyo. He serves as a member for Underwriter Laboratory's newly founded Board of Aviation Advisors. Mr. McClelland holds a Bachelor of Business Administration degree from the University of Houston.

Kathleen O'Shei, Integer

Ms. O'Shei serves as the Director of Environmental, Health, Safety, and Security for Integer Holdings. Integer comprises Greatbatch Medical, Electrochem Solutions, and Lake Region Medical. For over 16 years, Ms. O'Shei has overseen Integer's environmental, health, safety, security, and dangerous goods compliance manufacturing facilities world-wide with nearly 9,000 associates. She is currently Integer's subject matter expert on lithium battery transportation compliance. She is on the Board of Directors of the Medical Device Battery Transport Council (MDBTC), a member of the PRBA Transportation Committee, and a member of the SAE G-27 Committee. Ms. O'Shei has also participated in ICAO DGP meetings as a member of PRBA and/or MDBTC. Ms. O'Shei holds a Bachelor of Science degree in Chemical Engineering from the State University of New York.

William Reese, Commercial Vehicle Safety Alliance

Mr. Reese serves as Director of the Cooperative Hazardous Materials Enforcement Development (COHMED) program for the Commercial Vehicle Safety Alliance (CVSA). He is a former Level I and Level VI inspector and was a Major and Operations Commander for the Idaho State Police, before joining CVSA. From 2014–2015 he served as CVSA President and has also held other CVSA leadership positions. He served as an associate staff member at the Federal Motor Carrier Safety Administration, National Training Center, from 1995 through 2003. He served on the Hazardous Materials Cooperative Research Program oversight panel, and is an adjunct instructor for the Idaho State University Institute of Emergency Management, College of Western Idaho Law Enforcement Program, Texas A&M University Texas Engineering Extension Service, and the Idaho Office of Emergency Management. Mr. Reese is a graduate of the College of Southern Idaho Law Enforcement Program, Northwestern University School of Police Staff and Command, and the FBI National Academy.

Paul Rogers, International Association of Fire Fighters/PGR Group LLC

Mr. Rogers is a retired lieutenant from FDNY serving the City of New York for 32 years responding to emergency incidents and becoming a Hazardous Materials specialist for the FDNY operations section. While with the FDNY, Lt Rogers worked fire prevention as a subject matter expert on energy storage systems. Rogers became FDNY representative for the Office of Technical Certifications and Review for Energy Storage Systems installations (ESS) within the New York City Department of Buildings and wrote ESS operational response guidelines for the FDNY. He has taught FDNY Staff Chiefs and Incident Commanders about Lithium battery failure hazards and their role in responding to ESS.

Upon retirement, Rogers started PGR Group LLC, which is a consultant company that works with lithium ion battery safety. He currently advises Sustainable CUNY and NYSERDA on code development for safe and proper lithium ion installations in the state and city of New York. He currently is a voting committee member representing International Association of Firefighters for National Fire Protection Association (NFPA) 855, Underwriters Laboratory 9540A, and the International Fire Code Action Committee for Energy Storage systems installations. Rogers helped develop a national online training course dealing with ESS and first responder operations for the NFPA.

Stephane Rossetti, Medtronic

Mr. Rossetti is the Senior Program Manager of International Trade & Dangerous Goods Compliance for Medtronic. In this role, Mr. Rossetti leads Medtronic's lithium battery activities at the manufacturing facility. He has over twenty years of experience in supply chain and logistics with focus on dangerous goods and trade compliance. Mr. Rossetti is the Chairman of the Technical Sub-Committee at the Medical Device Battery Transport Council, a coalition of medical device manufacturers dedicated to enhancing transportation safety. He is a participating and voting member of the SAE G-27 Group currently working on the development of new performance-based packaging standards for transporting lithium batteries by air. He is also involved at the UN Working Group for the Lithium Battery Classification.

Scott Schwartz, Air Line Pilots Association

Captain Scott Schwartz serves as Director of the Dangerous Goods Program at the Air Line Pilots Association (ALPA) and is a full-time MD-11 captain and line check airman flying and instructing worldwide with FedEx Express. Captain Schwartz also serves as chairman of the International Federation of Air Line Pilots' Associations Dangerous Goods Committee, and as a member of the International Civil Aviation Organization (ICAO) Dangerous Goods Panel. He is responsible for representing both the North American and worldwide pilot communities at various regulatory and industrial venues. Captain Schwartz has provided insight to working groups of the ICAO Flight Operations and Airworthiness Panels, and multidisciplinary ICAO working groups. Captain Schwartz has also participated in aircraft accident and incident investigations as a trained aircraft accident investigator. Captain Schwartz holds a Bachelor of Science degree in Chemical Engineering from the Massachusetts Institute of Technology and PhD in Chemical Engineering from the University of Minnesota.

Tim Sheppard, Samsung Electronics America

Mr. Sheppard is the Vice President of Logistics for Samsung Electronics America. In this capacity, he oversees the mobile supply chain for Samsung Electronics in the United States. He is responsible for the importation, warehousing, and distribution of all mobile products in the United States. Mr. Sheppard led Samsung's U.S. Note 7 recall, achieving a recovery rate of 97%. Prior to his role at Samsung, he was controller of Best Merchant Partners, a venture capital company specializing in education in the U.S. and Latin America. Mr. Sheppard holds a Bachelor of Engineering degree from Imperial College and a Master's degree in Business Administration from the Edinburgh Business School.

Philip Squair, National Electrical Manufacturers Association

Mr. Squair serves as Vice President of Government Relations for the National Electrical Manufacturers Association. Mr. Squair leads the Association's team of advocacy professionals dedicated to achieving the industry's policy objectives at all levels of government. Formerly with the National Propane Gas Association (NPGA), Mr. Squair's efforts resulted in the enactment of several federal laws related to the transportation and storage of hazardous material. Prior to joining the NPGA, Mr. Squair directed governmental affairs activities for the Air-Conditioning, Heating, and Refrigeration Institute, and served on the legislative and campaign staffs of U.S. Representatives Bill McCollum (R-FL) and Don Ritter (R-PA). Mr. Squair holds a Bachelor of Arts degree in Political Economics and History from Hillsdale College.

Michael Tobin, Alaska Airlines

Mr. Tobin serves as Dangerous Goods Manager of Alaska Airlines. He has the responsibility for all aspects of the regulations and safety risks pertaining to hazardous materials, including lithium batteries in air transportation. Further, Mr. Tobin is a Certified Hazardous Materials Manager, a Member on the IATA Dangerous Goods Board, a voting member of the SAE G-27, and UL Standards 5800 Technical Panel. Mr. Tobin served on the PHMSA-FAA hazmat Aviation Rulemaking Committee for Passenger Notification of Hazardous Materials Regulations. He holds a Bachelor of Business Administration degree from the University of Portland.

David Weilert, Viking Packaging Specialist

Mr. Weilert serves as President of Viking Packaging. He has over 20 years of experience in design, testing, and manufacturing of performance oriented packaging for dangerous goods. He attended Rogers State University, while also working at Baldor Motors and Drives. In 1997, he began working as a Quality Manager at Viking Packing Specialist, and in 2005 he purchased the company. Viking Packing Specialist has since developed different packaging types for lithium battery fires, and continues to develop performance packaging and safety devices for the ever-changing threats that batteries present to the public. Mr. Weilert works with different material manufactures, domestic and international airlines, and aircraft manufacturers. Mr. Weilert is also a pilot.

Veronica Wilson, Walmart

Ms. Wilson is currently Director of Hazardous Materials Transportation for Walmart, Inc. During her 15-year tenure, her responsibilities have expanded to include forward and reverse logistics transportation for Walmart Inc., Sam's Club, and eCommerce. Ms. Wilson is also responsible for designing and delivering course content for multi-modal hazardous material transportation. In 2005, Ms. Wilson was integral in on-boarding a third-party chemical assessment review process. This process extracts critical transportation and disposal information to ensure compliant transportation and disposal. Ms. Wilson is on the Board of Directors for the Council on Safe Transportation of Hazardous Articles (COSTHA) and is Lead Chair of the COSTHA eCommerce Working Group. She is certified in the Department of Transportation (DOT), IATA, International Maritime Dangerous Goods Code (IMDG), and Resource Conservation and Recovery Act regulatory compliance and is a licensed pyrotechnician.

Bill Wojtas, United Airlines

Mr. Wojtas currently serves as the Manager for Dangerous Goods at United Airlines. He has more than 30 years of air cargo and hazardous materials safety experience in both military and commercial aviation. In his current role, Mr. Wojtas manages the global program for the carriage of hazardous materials, including lithium batteries, to ensure safe transport and to keep United Airlines in compliance with PHMSA, FAA, IATA, and ICAO standards. He has also worked on dangerous goods with Northwest Airlines Cargo (later Delta Air Lines), Pegasus International Freight, and Nippon Cargo Airlines. Prior to his extensive work in civil aviation, Mr. Wojtas

oversaw the transportation of hazardous materials for the Marine Corps' 3rd Combat Engineer Battalion, 1st Marine Air Wing G4 and Marine Air Control Squadron 7. He also engages with a wide range of stakeholders to facilitate research, develop standards, and review and recommend industry rules and regulations.