

## Speaker Biographies

**Karen Hall** is the Vice President of Technical Operations for the National Hydrogen Association. She facilitates the coordination of hydrogen codes and standards activities among industry, government, and standards development organizations.

Since 1997, Ms. Hall has organized Hydrogen Safety, Codes and Standards Workshops for the National Hydrogen Association. These workshops develop consensus among the stakeholders on technical issues pertinent to the commercial deployment of hydrogen energy systems. They also serve to create dialog between hydrogen industry, code and standards development organizations, code officials, and other stakeholders for the purpose of achieving common objectives.

Ms. Hall received a Master of Science degree in Environmental Science from the Johns Hopkins University. She earned a Bachelor of Science degree in Welding Engineering from the Ohio State University.

**Aaron Harris** is the Environmental, Health and Safety Manager at Nuvera Fuel Cells. Aaron is responsible for safety policies, product and laboratory testing safety reviews, codes and standards administration and regulatory compliance for Nuvera's facility and products. In addition Aaron works in product test development for Nuvera's fuel cell power system product line, PowerEdge.

Prior to the EHS role Aaron worked in systems engineering and field service for Nuvera.

Aaron holds a Bachelor and Masters Degree in Mechanical Engineering from the University of Washington.

**Carl Rivkin** is the project leader for the Codes and Standards Project team at the National Renewable Energy Laboratory (NREL) in Golden, CO. The Codes and Standards Project at NREL has responsibility for implementing the US National Template of Codes and Standards for alternative fuels for vehicles. This implementation effort runs the gamut from running a sensor test laboratory to evaluate the performance of chemical sensors to conducting codes and standards seminars to assist code officials in permitting facilities.

Mr. Rivkin has over twenty five years of experience in safety and environmental engineering including work at a regulatory agency. Prior to joining NREL, Mr. Rivkin worked for the National Fire Protection Association on alternative energy code projects. Mr. Rivkin was also the editor of "The NFPA Guide to Gas Safety", published in 2005, which has several chapters devoted to hydrogen and flammable gas safety.

Mr. Rivkin has a bachelor's degree in chemical engineering from the University of Michigan and an MBA from the University of Baltimore. He is a licensed Professional Engineer (P.E.) and Certified Safety Professional (CSP).

**Kelvin Hecht** provides consulting services to the U.S. Department of Energy, UTC Power and on occasion, to small fuel cell manufacturers, and is editor of the website [www.fuelcellstandards.com](http://www.fuelcellstandards.com), which tracks and reports on the world-wide development of fuel cell and hydrogen infrastructure standards.

With 45 years of fuel cell experience, Mr. Hecht now specializes in fuel cell codes and standards. He chairs the CSA America committee, responsible for producing the U.S. National Standard for Stationary Fuel Cell Power Plants. For the past 30 years, Mr. Hecht has been active in almost all fuel cell standards committees including ANSI, AGA, ASME PTC 50, IEEE, NFPA 853, IEC, UL and CSA America.

In his role as Technical Advisor to the United States Technical Advisory Group to IEC TC105, Mr. Hecht oversees the United States' participation in writing international fuel cell standards, and chairs TC105's working groups on Terminology and Stationary Power Plants. He has been recognized for his outstanding service to TC105 with the IEC "1906 Award" in both 2005 and 2008.

During his 35 years with United Technologies Corporation, Mr. Hecht was responsible for the reliability and safety of the fuel cells in the Apollo and Shuttle space missions as well as the third-party safety certification of commercial 200 kW power plants. Before retiring from UTC, Mr. Hecht was manager of Product Assurance for the company's Fuel Cell Operation, responsible for product safety, reliability and maintainability. He also held the positions of Manager, Environmental Compliance and Manager, Industrial Health and Safety.

Mr. Hecht has a B.S., Physics degree from Tufts University and multiple advanced course certifications from Trinity College, University of Washington, University of Wisconsin, Northeastern University and the U.S. Department of Labor's OSHA Training Center.

**Jesse Schneider** is the System and Product Development Manager at Proton Motor in Munich, Germany. He is responsible for future product development and system engineering including fuel cells and vehicle hybridization. He also has over 15 years experience in the automobile industry at OEMs (Mercedes, Chrysler) and suppliers (ZF and ArvinMeritor) from production to R&D. For the last 8 years he has worked in the area of alternative propulsion (PHEV, FCV) in the management of development to implementation of the technology in demonstration fleets. He has led a number of cross-industry teams at SAE, CaFCP, USFCC, USCAR, FreedomCar.

**Laurie Florence** joined Underwriters Laboratories in 1990 as an engineer in their engineering services department, evaluating products for safety certification. Laurie has worked in numerous categories in her years at UL including a variety motor operated appliances, laboratory and information technology equipment, and gas and oil equipment. Since 2003, Laurie has been the Primary Designated Engineer for the following categories: Batteries, Fuel Cells, Hydrogen Generators and Capacitors. As the Primary Designated Engineer, Laurie has responsibility for technical decisions, determining technical competency criteria for UL staff and supporting UL's certification programs for her categories of responsibility. She is also UL's representative on the following domestic and international committees and organizations: UL 1642/2054, 810, 2264, 2265, 226, 2575 Standard Technical Panels (STPs); Revisions projects for IEEE 1625 and 1725; CTIA battery ad hoc committee; NEMA C18 battery committees; CSA Standards Fuel Cell Technical Committee; US TAG and various working groups or maintenance teams for IEC SC 21A, IEC TC 35 and 105; US TAG and working groups for ISO TC 197; NFPA Technical Committee for Electric Generating Plants; and the US Fuel Cell Council.

**Julie Cairns** joined CSA (formerly A.G.A. Laboratories and International Approval Services) in March 1980. During her 30 years with the company, Mrs. Cairns has held various positions involved with standards development, supervisory for certification documentation and publication activities. Mrs. Cairns has extensive experience in project management and has established herself in the industry as a lead agent in coordinating exchange of information between industry experts around the world. During the past six years, Mrs. Cairns has managed standards development projects including natural gas and hydrogen vehicle container standards, NGV component standards, and natural gas and hydrogen vehicle dispensers, compressors and other station component standards. Development of safety directed technical standards requires more than the drafting and processing of standards. It requires soliciting expert knowledge and it requires involvement in relevant organization programs. Mrs. Cairns has successfully lead the initiative to obtain participants in the standards development programs from vehicle users, vehicle and cylinder manufactures, safety officials, government agencies and other standards developers. Mrs. Cairns has an excellent working relationship with industry participants, is respected for her contributions in leading the standards development efforts and the quality of work provided.

**Daniel Rabun** is the lead for Business Development and Commercial Sales for Hydrogen and Hydrogen Equipment related to emerging Hydrogen fueling and energy applications in the Western United States, based out of Southern California.

Dan joined Air Products 32 years ago as a Chemical Engineer from Villanova University. He has held positions in Process Engineering, Project Development, Project Engineering, and Construction for U.S. and worldwide projects, and for 15 years as Engineering Manager for the Western United States with responsibility for Safety, Engineering, and Installation of industrial gas systems at customer sites. He moved into the Sales Organization as a Field Sales Representative, and was promoted to Senior Sales Representative for Liquid and Bulk Gas Products. He joined the Hydrogen Energy Systems Group in 2004. In that role, Dan works to find and develop Hydrogen fuel and energy applications with the goal of creating viable commercial projects. He is a strong advocate for clean energy and the environment. He has a wide range of interests in all areas of engineering, science, technology, and policy.