

Panel Title: Energy Policy

Thursday, September 8, 2011, 8:30 AM – 10:10 AM

Panel Moderator: James Gover, Kettering University

Panelists:

- James R. Fancher, IEEE-USA Energy Policy Committee
- Clinton J. Andrews, Professor of Urban Planning and Policy Development, Rutgers, The State University of New Jersey
- Russell Lefevre, Chair, IEEE TAB FDC Electric Vehicles Steering Committee
- Lee Stogner, Principal, Vincula Group, and Director, IEEE Board of Directors

Panel Summary: This panel will discuss recent technical events; including the recent nuclear power plant accidents in Japan; recent political events, including the economic downturn in the US and the emergence of high mileage, ICE driven, compact cars; and other significant energy policy research and the impact of these on future directions for energy policy around the world.

Short Biographies:

Dr. James Gover, a nuclear and electrical engineering graduate from the University of New Mexico, is currently Professor of Electrical Engineering at Kettering University. His 25 years of engineering development and management at Sandia National Laboratories earned him the IEEE Fellow award for his work on radiation effects in nuclear systems. He also had 10 years of policy research experience while serving the IEEE as a Congressional Fellow and Competitiveness Fellow in the offices of Senator Domenici, Senator Roth, The House of Representatives Science Committee, the US Department of Energy and the US Department of Commerce. His policy work earned him the IEEE Citation of Honor. He currently represents the IEEE Vehicular Technology Society as representative to the IEEE-USA Energy Policy Committee. At Kettering University he teaches the graduate courses: advanced power electronics in EVs, power semiconductors for EV applications and system integration and packing of EV power electronics as well as several undergraduate courses.

James R. Fancher spent his early years in Fairmont MN, and attended Mankato State Teachers College (now Minnesota State University at Mankato) for the first two years of his college education; in 1956 he received a Bachelor of Science in Electrical Engineering from Iowa State University. He earned a MBA from the University of Chicago in 1963. He worked in Chicago for six years as circuit designer of two-way radios and facsimile machines, and then joined the local electric utility, Commonwealth Edison, where he spent 30 years in a variety of engineering, managerial, and technical positions. Nearly half of that career was devoted to some aspect of nuclear power. He retired at the end of 1992. Mr. Fancher has been active in professional society affairs for many years, particularly in IEEE, representing the upper Midwest on its Board of

Directors in 1995-96. He has been an active member of the Energy Policy Committee of IEEE-USA since 1984 (except for an hiatus from 1994 through 1999 as a result of his activities for the parent organization) and received a citation for that work in 2009. A member of the American Nuclear Society since 1992, he recently completed a 3-year term on its Public Policy Committee, serving as Committee Vice-Chair for the last year of that term. He is a life member of the Western Society of Engineers, a member of the Washington Award Commission, and a past President of the Illinois Engineering Council.

Clint Andrews is a professor in the Bloustein School of Planning and Public Policy at Rutgers University, where he directs the Urban Planning program. His expertise is in the substance and processes of energy and environmental planning and policy. He was educated at Brown and MIT as an engineer and planner. He is a member of the American Institute of Certified Planners, a LEED Accredited Professional, and a licensed Professional Engineer. Previous experience includes working in the private sector on energy issues, helping to launch an energy policy project at MIT, and helping to found a science policy program at Princeton. Andrews currently serves on the Board of Governors of the American Collegiate Schools of Planning, and is a past member of the Board of Directors of the Institute for Electrical and Electronics Engineers (IEEE) and the International Society for Industrial Ecology, and a winner of the IEEE's 3rd Millennium Medal. His books include *Industrial Ecology and Global Change*, *Regulating Regional Power Systems*, and *Humble Analysis: The Practice of Joint Fact Finding*.

Russell Lefevre is a Fellow of the IEEE and of AAAS and 2008 President of IEEE-USA. He has a B.S. and M.S. in Physics from the University of North Dakota and a Ph.D. in Electrical Engineering from the University of California, Santa Barbara. During 2001, Dr. Lefevre was an IEEE-USA Congressional Fellow as Science Advisor to Senator Jay Rockefeller. He is Chair of the IEEE Electric Vehicle Steering Committee and a member of the IEEE Smart Grid Steering Committee. He has an appointment as Adjunct Professor of Physics and Electrical Engineering at the University of North Dakota.

Lee Stogner is the Managing Principal of the Vincula Group, a consultancy business in energy, systems integration and project management. Lee has over 30 years of design, consulting, project management and business development experience across a range of industries. Lee has driven growth at companies that include Digital Equipment, Fluor Corporation and Rockwell International. Throughout his working career, Lee has been active in both local and international IEEE activities. Lee is the Chair of the South Carolina Engineering Cluster and a Director on the IEEE Board of Directors. Today, Lee is active in promoting the development of the Smart Grid through his participation in the IEEE Smart Grid Initiative, the IEEE Energy Policy Committee and the IEEE Electric Vehicle Committee.