Speaker Biographies

James P. Avery

James P. Avery is senior vice president of electric transmission for San Diego Gas & Electric (SDG&E), a regulated subsidiary of Sempra Energy, a San Diego-based Fortune 500 energy services holding company. He oversees the company's fuel and power supply purchasing, generation business planning, engineering, power grid operations and transmission line construction and maintenance.

James Bushnell

James Bushnell is Research Director at the University of California Energy Institute and a lecturer at U.C. Berkeley's Haas School of Business. He received a Ph.D. in Operations Research from U.C. Berkeley in 1993. He has written extensively on the organization and competitiveness of electricity markets. Dr. Bushnell has served as a member of the Market Monitoring Committee of the California Power Exchange and is currently a member of the Market Surveillance Committee of the California ISO.

John D. Chandley

John Chandley is a Principal at LECG and a member of its electricity market design team, which is led by Harvard’s William Hogan and LECG’s Scott Harvey. This team has been responsible for designing many of the core features of the PJM and New York ISO markets, the LMP-based market reforms at the New England ISO, and the proposed markets for the Midwest ISO. The team has assisted numerous clients in other ISO regions and market operators in other counties. The team has been significantly involved in the FERC’s efforts to create Regional Transmission Organizations that rely on bid-based, security-constrained economic dispatch, locational marginal pricing and financial transmission rights.

Prior to joining the LECG market design team in 1996, John was an Assistant Chief Counsel at the California Energy Commission, where he worked for 20 years, and was involved in the early electricity restructuring efforts in California.

John has degrees from the University of California, Berkeley, and the UC Hastings College of Law in San Francisco.

John W. Charlton

John W. Charlton is the Program Coordinator for Resource Adequacy Programs at the New York Independent System Operator (NYISO) in Albany, NY. Mr. Charlton graduated from Union College, in Schenectady, NY in 1962 with a BEE
degree, and from the New Jersey Institute of Technology (formerly Newark College of Engineering) in (1969) with an MSEE degree. He is Registered Professional Engineer in New York. Mr. Charlton is responsible for market designs and applications of generating Capacity and Resource Adequacy (Installed Capacity) in New York. Mr. Charlton also interfaces with ISO-NE and PJM on resource adequacy issues on a Regional level and functions as a research program advisor for certain EPRI and NYSERDA programs dealing with Distributed Resources and Generation.

Mr. Charlton has been with the NYISO since October 2000. Prior to joining the NYISO, he spent 31 years with New York State Electric and Gas Corp. (NYSEG) in Binghamton, NY, and 7 years with Public Service Electric and Gas Co. (PSE&G) in Newark NJ. He also served as an Adjunct Lecturer for Power Systems studies at Binghamton (NY) University for 10 years.

Mr. Charlton has over 42 years of experience in a variety of Engineering and Management positions including system planning, system protection, substation design and system operations. He has been working in the generating resource area since 1997.

Mark Karl

Mr. Karl received his Bachelor’s Degree in Mechanical/Aerospace Engineering from the University of Pittsburgh in 1980, and his Master’s Degree in Business Administration from the University of Pittsburgh in 1989. Prior to joining ISO New England, he worked at the Duquesne Light Company in a number of different functional areas including Engineering, Management, Risk Assessment, and Regulatory Analysis. He had extensive involvement in the restructuring and deregulation of the electric industry in Pennsylvania, including development of retail choice pilot programs, stranded cost filings, and asset divestiture.

Mr. Karl currently manages the Market Design group at ISO New England where he is responsible for design, development, and implementation of market rules and business processes in support of the New England wholesale electric market. He has been extensively involved in the ongoing development of the ICAP/Resource Adequacy market, and was responsible for development of the Market Rules and NEPOOL Manuals for the ISO-NE Standard Market Design.

Peter H. Kind

Peter H. Kind (“Peter”) is a Managing Director and Co-Head of the Global Power Group of Citigroup’s Investment Banking division. The Global Power Group provides comprehensive investment banking services to utilities and competitive merchant power companies. Peter’s area of focus encompasses capital markets advisory and transaction execution and strategic advisory assistance, including merger and acquisition and corporate finance advisory assistance. Peter’s M&A
experience includes all sectors of regulated and non-regulated utility and power operations.

Peter has testified in regulatory proceedings in eight states (Indiana, Maine, Minnesota, Missouri, Rhode Island, Texas, Vermont and Wisconsin) and has presented before the FERC.

Peter has over 22 years of utility industry investment banking experience, joining Salomon Brothers in 1997 and prior experience included 15 years at Kidder, Peabody, where he was a Managing Director and head of the firm’s utility industry practice. Prior to investment banking, Peter worked for Arthur Andersen & Co.

Peter holds an MBA in Finance from New York University and BBA in Accounting from Iona College. Peter practiced as a Certified Public Accountant until 1981.

Dr. Shmuel Oren

Dr. Shmuel Oren is Professor of Industrial Engineering and Operations Research at the University of California at Berkeley and is the Berkeley site director of PSERC (the Power System Engineering Research Center). His academic research and consulting activities over the last twenty years focused on the economics, planning and operations of electric power systems. He has been a consultant to various private and government organizations on electricity market design issues, including EPRI, the Brazilian Energy Regulatory Commission, the Alberta Energy Utility Board, the Polish System Operator, the Peruvian Energy Regulatory Commission, and to the California ISO. Over the last four years he has been a Senior Adviser to the Market Oversight Division of the Public Utility Commission of Texas.

He holds a Ph.D in Engineering Economic Systems from Stanford and is a Fellow of the Institute of Electrical and Electronic Engineers (IEEE) and of the Institute for Operations Research and Management Science (INFORMS).

Dr. Thomas Paynter

Dr. Thomas Paynter is a Principal Economist with the New York State Department of Public Service – Office of Regulatory Economics. Dr. Paynter holds a Ph.D. in economics and a B.A. in physical sciences from the University of California at Berkeley. He has written and testified on pricing and incentive issues involving both utility and non-utility electric generation since 1986, and is author of "Coordinating the Competitors," in The Electricity Journal, November, 1990. Since 1994, he has worked on electric industry restructuring, the development of the New York electricity market, and the rules and procedures of the New York Independent System Operator.
Dr. Roy Shanker

On behalf of electric utilities, industrial concerns, project financing interests and project developers, Dr. Shanker has participated in a range of activities from the current market restructurings and RTO proposals to general regulatory proceedings and IPP related contract negotiations; development; acquisition and sales. This work has taken place in over 500 engagements, covering more than 20 states.

Dr. Shanker has been very active over the last eight years in the current restructuring of the electric retail and wholesale markets. He has participated in both initial market designs, and also is actively involved on a continuing basis in a number of markets. In this capacity he currently serves on the Energy Markets Committee, the Transmission Expansion Advisory Committee and the Market Implementation Committee of PJM. He also has participated in developing the new markets for regulation services and operating reserves in PJM and the proposed Reliability Pricing Model. Dr. Shanker also serves as a member of the New York Independent System Operator Business Issues Committee, the Scheduling and Pricing Working Group, the Market Structure Working Group and several other working groups supporting the New York wholesale electric market. Dr. Shanker also advised several electric utilities on the design of two proposed Regional Transmission Organizations. Dr. Shanker also participated extensively in the FERC hearing process regarding the development of the standard market design, testifying twice before the Commission and meeting numerous times with FERC Staff on market design issues.

Dr. Shanker also has extensive experience in the wholesale and retail electric utility markets. He has over thirty years of consulting experience in the area and has expertise in a number of different areas related to the electric utility industry. This expertise relates to the contractual and regulatory aspects of these markets with respect to purchases made by utilities from both Qualifying Facilities as defined by the Public Utility Regulatory Policies Act of 1978 as well as other independent power producers. Dr. Shanker has negotiated numerous contracts and amendments relating to the interactions between the operational aspects of independent power facilities with operating requirements of electric utilities. Dr. Shanker also is a recognized expert in the areas of utility production costing analyses and system expansion planning. He also has expertise in traditional utility ratemaking and rate design. Dr. Shanker received his bachelor’s degree from Swarthmore College and a masters and doctorate from Carnegie Mellon University.

Steve Stoft

Steve Stoft grew up with electricity, studied physics for a B.A. in engineering math, and took his Ph.D. from Berkeley in economics after switching from
astronomy. He spent a year at FERC and now consults for generators in Canada and ISOs in the U.S.

He has just finished leading the redesign of ISO-New England’s locational Capacity market (ICAP) and is working on PJM’s capacity market. His book, Power System Economics, focuses on the problem of investment risk, recommending a combination of operating-reserve shortage payments and an ICAP market similar to ISO-NE’s proposed design.

Frank Wolak

Frank Wolak is a Professor of Economics at Stanford University. He has worked extensively on the market design and monitoring of electricity markets in Latin America, Europe, Asia, Australia and the United States. He is the Chairman of the Market Surveillance Committee for the Independent System Operator of the California Electricity Supply Industry. In this capacity, he has testified several times at the Federal Energy Regulatory Commission, US Senate and House of Representatives on issues relating to energy market design, monitoring, and market power. (Web site: http://www.stanford.edu/~wolak )

Mark D. Younger

Mr. Younger is Vice President of Slater Consulting and has over twenty years of experience in analysis of electric systems and markets. He has been actively involved in the design of deregulated electricity markets since 1994. Since the operation of the NYISO began in 1999 he has been a participant in the NYISO workgroups and committee meetings addressing market design issues and market monitoring issues.

Prior to joining Slater Consulting, Mr. Younger worked at MRW and Associates, Inc. from 1986 through 1994 and at Pacific Gas & Electric Company from 1983 through 1986. Mr. Younger holds a Bachelor of Science degree in Engineering, a Master of Engineering degree in Operations Research, and a Master of Business Administration degree, all from Cornell University.

Kenneth Laughlin

Mr. Laughlin is a thirty-year utility veteran, is PJM’s Vice President of Markets Coordination. Mr. Laughlin is a director of the Association of Power Exchanges (APEX). He is chair of the international CIGRE Study Committee on Markets and Regulation (C5) and is a member of the CIGRE Technical Committee. Mr. Laughlin is also the chair of the North American ISO/RTO Council committee on markets.
Mr. Laughlin is a director and ex-president of PJM Technologies. He chairs the PJM Electricity Markets Committee, and he is on the Electricity Power conference 2005 advisory board. Mr. Laughlin served on the NERC Markets Committee’s executive committee.

Mr. Laughlin has provided expert testimony and advice on electricity markets and restructuring before FERC, several U.S. states, two Canadian provinces and governments around the world.

Mr. Laughlin received a bachelor of science in electrical engineering and a master of science in engineering management specializing in finance, both from Drexel University. He is a graduate of the Management Development Program of Pennsylvania State University. PJM operates the world’s largest competitive wholesale electricity market and the world’s largest centrally dispatched control area.

PJM is responsible for ensuring the reliability of the high voltage electric power system including 50,000 miles of transmission lines. The company currently coordinates a pooled generating capacity of more than 134,000 megawatts and operates a wholesale electricity market with more than 300 market buyers, sellers and traders of electricity. PJM, the USA’s first fully functioning regional transmission organization, has administered more than $26 billion in energy and energy service trades since its markets opened in 1997.

More than 70 nations have sent delegates to PJM to learn about its market model and the operation of the electric grid in a region including more than 44 million people in all or parts of Del., Ill., Ind., Ky., Md., Mich., N.J., Ohio, Pa., Tenn., Va., W. Va. and the District of Columbia. Visit PJM at www.pjm.com.