



SPEAKER BIOS

Dr. Ren Anderson, National Renewable Energy Laboratory, Residential Research Team Leader

Ren Anderson joined NREL in 1983 and has worked on a broad range of building research projects, including passive solar homes, advanced switchable window coatings, residential building energy design tools, advanced desiccant cooling and heat recovery systems, and residential air distribution systems.

Working with industry partners and DOE, Ren has helped to plan and carry out the research activities of DOE's Building America Program, now one of the largest research elements in DOE's buildings research portfolio. Ren is currently a senior project leader at NREL focusing on developing least cost approaches for the design of Zero Energy Homes.

Jeff Bumgarner, PacifiCorp, Director of Demand-side Management

As director of demand-side services, Jeff Bumgarner leads the company's efforts to achieve demand-side management objectives as part of an overall energy resource plan, and has responsibility for the development, implementation, and management of the company's DSM programs and services.

Responsibilities span the residential, commercial and industrial customer segments involving identifying energy-saving opportunities, designing and/or contracting for new programs, achieving marketplace and regulatory approvals, program implementation, and collaboration in the development of the Company's Integrated Resource Plan.

Bumgarner joined PacifiCorp in 1981. He holds bachelor degrees in business management, finance, and sociology from the University of Oregon and serves on the boards of the

Northwest Energy Efficiency Alliance and Southwest Energy Efficiency Project.

Chris Calwell, Ecos Consulting, Policy and Research Director

Chris Calwell co-founded Ecos Consulting in 1997 after serving seven years in the Natural Resources Defense Council's (NRDC) Energy Program. He is the company's Policy and Research Director, leading the company's research efforts into new energy efficiency and environmental initiatives.

Chris served as the lead technical and policy resource for mandatory efficiency standards recently adopted by the California Energy Commission for torchieres, external power supplies, and general service incandescent lamps. He supported the development of energy efficiency policies for external power supplies at ENERGY STAR, in six U.S. states, and in China, Australia, Europe, Canada and Brazil, and currently serves as the technical advisor for 80 PLUS[®], an innovative manufacturer buy-down program to accelerate adoption of energy efficient power supplies into desktop computers and servers.

Chris received his M.A. from the Energy & Resources Group at the University of California at Berkeley and holds a B.A. in Environmental Studies from Trinity University. Chris and three other recipients were recently honored by the American Council for an Energy Efficient Economy (ACEEE) as 2006 Champions of Energy Efficiency for their global work on ac-dc power supply efficiency.

Patti Case, ETC Group, Vice President

Patti Case has been Vice President of ETC Group since its inception in 1988. The company's mission is to improve the energy

efficiency of commercial and industrial businesses and reduce the impact of energy use on the environment through engineering, analysis, education, and advocacy.

Patti has a MS in Mechanical Engineering and BS degrees in Chemistry and Biology. She is a registered PE in Utah and California. Prior to starting ETC Group with her brother, Mark Case, she spent 10 years doing combustion research and development and heavy industrial process engineering. She has served on the board of directors for the Southwest Energy Efficiency project since 2002.

Mark Cherniack, New Buildings Institute, Senior Program Manager

Mark has over 25 years of experience in the field of energy efficiency. After five years spent as a Conservation Analyst with the Northwest Power and Conservation Planning Council during the 1980's, he opened the first overseas office of the International Institute for Energy Conservation in Bangkok, Thailand. He served as Executive Director from 1989 to 1992, where he created the first demand-side management program in Asia. Mark also worked to develop photovoltaic businesses in India, Morocco, Sri Lanka, and Viet Nam. Since returning to the U.S., Mark has worked on renewable energy, carbon mitigation, fuel cells and efficiency. He is currently managing NBI's portfolio of projects related to HVAC efficiency and advanced HVAC diagnostics.

Sarah Cottrell, State of New Mexico, Governor's Energy and Environmental Policy Advisor

Sarah Cottrell serves as the Energy and Environmental Policy Advisor to New Mexico Governor Bill Richardson. She joined the Governor's team after earning a Master of Public Affairs from Princeton University's Woodrow Wilson School of Public & International Affairs. Before entering graduate school, Cottrell worked for the Pew Center on Global Climate Change in Arlington, VA. Prior to joining the Pew Center in 2001, she received a grant to research and co-author teaching case studies about United States and international climate change policies. She graduated *magna cum laude* with Honors in Political Science from Davidson College, and studied Irish politics at

University College Dublin. Past internships include summers at the White House Climate Change Task Force, Grand Canyon Trust, and Ozone Action, a nonprofit organization.

Dan Dent, Questar Gas

Dan Dent has held a variety of positions with Questar companies since 1987. He currently manages the DSM portfolio of programs for Questar Gas. Prior this work he was Community Relations Manager for Questar Gas, Manager of Marketing for Questar Energy Services and Director of Business Development for Questar Regulated Services. He received a Bachelor of Science degree in marketing from the University of Utah (1989). He and his wife Kim have two teen-aged daughters.

Howard Geller, Southwest Energy Efficiency Project, Executive Director

Dr. Howard Geller is the Executive Director of the Southwest Energy Efficiency Project (SWEET), a Boulder, Colorado-based public interest organization that promotes policies and programs to advance energy efficiency in Arizona, Colorado, Nevada, New Mexico, Utah, and Wyoming. Dr. Geller is the former Executive Director of the American Council for an Energy-Efficient Economy (ACEEE). Dr. Geller has advised and conducted energy efficiency studies for utilities, governmental organizations, and international agencies. He is author or co-author of four books, including *Energy Revolution: Policies for a Sustainable Future*, published in 2002 by Island Press. Dr. Geller was awarded the 1998 Leo Szilard Award for Physics in the Public Interest by the American Physical Society in recognition of his contributions to national appliance efficiency standards and more efficient energy use in general.

Robert W. Hammon, Ph.D., ConSol, Principal

Rob Hammon oversees ConSol's consulting department, which specializes in residential new construction research and development for governments, utilities and industry at the local, state, and federal levels. He has over 20 years experience in energy-efficient and sustainable design in new residential construction.

In 2005, Dr. Hammon was named to California Governor Arnold Schwarzenegger's Energy

Efficiency Subcommittee Green Action Team. In early 2006 he was tapped to co-chair the New Solar Homes Partnership Advisory Committee to advise the California Energy Commission staff and commissioners how to create the most effective program to encourage solar technology in new home construction.

Hammon earned his Bachelor's, Master's, and Ph.D. from the University of California. He has received numerous awards and honors throughout his career, including Associate of the Year award from the Southern Nevada Home Builders Association, U.S. EPA Ally of the Year award, and Pacific Gas & Electric Company Energy Efficiency Services Excellence award. He holds several U.S. patents.

Tom Hines, Arizona Public Service

Tom Hines manages APS' portfolio of residential energy efficiency programs; including the residential new construction, existing homes HVAC, and residential consumer products programs. Mr. Hines has been managing energy efficiency programs at APS for over nine years, including extensive experience with market transformation projects that work directly with builders, HVAC contractors, and other trade allies, to reduce market barriers to promote greater adoption of energy efficiency. Prior to working with APS, Mr. Hines worked with EcoGroup (currently Nexus Energy Software) developing energy efficiency education programs for over 30 utilities nationwide.

Larry Holmes, Nevada Power and Sierra Pacific Power, Manager of Customer Programs and Strategies

In Larry's current assignment as Manager of Customer Programs and Strategies, he is responsible for Nevada Power's and Sierra Pacific Power's Demand Side Management program planning, development and evaluation. He is also responsible for distributed generation programs, company owned small renewables, and third party customer payment systems.

Larry began his work at Sierra Pacific Power Company and Nevada Power Company in 1981 and has held a number of positions in design,

planning, operations, economic development, regulatory affairs, and customer service.

Larry graduated from San Jose State University with a Bachelor of Science in Electrical engineering and from the Georgia Institute of Technology with a Masters of Science in Electrical Engineering. He is a Registered Professional Engineer in the State of Nevada and a Certified Energy Manager with the Association of Energy Engineers.

Kris Leaf, The Weidt Group

Kris Leaf has over 15 years of experience in providing environmental design assistance to owners, architects and engineers. He has extensive experience in the utility industry and has also worked in building operations, mechanical contracting, and in the architecture/engineering community.

His work at The Weidt Group focuses on providing analysis and data to help design teams understand the energy and environmental implications of various design options. Mr. Leaf currently directs energy analysis and Energy Design Assistance efforts for utilities and their clients; and establishes and manages collaborations with architects and engineers to meet Sustainable Design objectives. He is a LEED™ Accredited Consultant. Mr. Leaf received his Bachelor of Mechanical Engineering degree from the University of Minnesota in 1986.

Laura Nelson, State of Utah, Governor's Energy Advisor

Dr. Nelson received her BS and PhD in Economics from the University of Utah. She has taught Economics at the graduate and undergraduate levels, and in 1998 began consulting on a variety of energy issues, working both for the Utah Committee of Consumer Services (CCS) and for the Utah Energy Office. In 2000 she became a Utility Economist for the CCS, and in 2001 moved to the Utah Division of Public Utilities where she worked as a Utility Economist and later as a Technical Consultant. In 2004 she joined the Idaho Public Utilities Commission as a Policy Strategist, serving as the Idaho representative to the Western Interstate Energy Board (WIEB)

and at NARUC on the Staff Subcommittee on Energy Resources and the Environment.

Laura was appointed by Governor Huntsman as his Energy Advisor in July 2005. She serves as the Utah representative to WIEB, has a seat on the WREGIS State and Provincial Committee, is the Chair of the Utah Energy Forum and is also a member of the newly-formed Western Interconnection Regional Advisory Body. She recently chaired the Blue Ribbon Advisory Council on Climate Change that was put together by Governor Huntsman.

Steve Owens, Arizona Department of Environmental Quality, Director

Steve Owens was appointed Director of the Arizona Department of Environmental Quality by Governor Janet Napolitano in January 2003. Before joining ADEQ, Steve was a practicing environmental attorney in Phoenix for 14 years.

Steve has served on numerous environmental panels, including the Governor's Climate Change Advisory Group, the EPA Clean Air Act Advisory Committee, the Joint Public Advisory Committee of the North American Commission on Environmental Cooperation, the Phoenix Environmental Quality Commission, and the Clean and Diversified Energy Advisory Committee of the Western Governors Association. In September 2006 Governor Napolitano named Steve to chair the newly created Climate Change Executive Committee, which will develop strategies for implementing the recommendations of the Climate Change Advisory Group.

Steve graduated with honors from Brown University in 1978 and received his law degree in 1981 from Vanderbilt Law School. From 1982-84, Steve served as counsel to the Subcommittee on Investigations and Oversight of the U.S. House of Representatives Committee on Science and Technology. From 1985-88, he was chief counsel and later state director for then U.S. Senator Al Gore.

Rita Ransom, Southwest Gas, Administrator, State Regulatory Affairs/Conservation and DSM
Rita Ransom has been with Southwest Gas Corporation for over 21 years. She is currently responsible for developing, coordinating, and

implementing demand side management programs for the company. She has assisted with educational outreach regarding energy efficiency and conservation, and has been an information source for home builders who wish to participate in the Environmental Protection Agency's ENERGY STAR homes program. She also represents Southwest Gas in the Nevada ENERGY STAR Partnership and its technical committee, responsible for educating home builders in the implementation of the new ENERGY STAR guidelines. She recently assisted the Southern Nevada Home Builders Association's committee which developed the Green Building program recently approved by the City of Las Vegas.

Piper Rhodes, Kennecott Land Company, Senior Environmental Specialist

Piper Rhodes is the Senior Environment Specialist for Kennecott Land Company. Piper is a member of the Sustainable Development, Health Safety & Environmental Department. In her role she is responsible for maintaining the ISO 14001 Environmental Management System, implementing corporate environmental initiatives, assuring environmental compliance, and providing support for sustainable development. She graduated from the University of Utah with degrees in Environmental Studies and Political Science.

Jeff Schlegel, Southwest Energy Efficiency Project, Arizona Representative

Jeff Schlegel is SWEEP's Arizona Representative, working with environmental, consumer, and renewable energy groups in support of energy efficiency and distributed resource issues. He works closely with Arizona utilities, and most recently served on Arizona Governor Janet Napolitano's Climate Plan Advisory Group. He has more than 20 years of experience in the energy field, specializing in policy analysis, planning, evaluation and research, and program design for energy efficiency, renewable energy, and low-income energy programs.

In addition to his responsibilities with SWEEP, Mr. Schlegel assists the State of Connecticut Energy Conservation Management Board, the Massachusetts Energy Efficiency Collaborative, and the New England Demand Response

Initiative (NEDRI). From July 1997 through March 2000, Mr. Schlegel served as the lead technical consultant to the California Board for Energy Efficiency. In addition, he has worked on energy efficiency policies and programs in New England, Wisconsin, and Arizona.

Mr. Schlegel was the winner of the 1997 Outstanding Achievement Award from the International Energy Program Evaluation Conference.

Erick Seelinger, Public Service of New Mexico
Erick Seelinger has over 24 years experience in the energy business. He holds a BS in Chemical Engineering and an MBA in Financial Management. Prior to joining PNM, he worked for independent as well as major oil and gas companies. He has been with PNM for over 16 years, working the engineering, supply planning, environmental, alternative fuels and market services departments. He is excited to be part of PNM's energy efficiency program.

Wayne Shirley, Regulatory Assistance Project, Director

Wayne Shirley is a director of the Regulatory Assistance Project. He served as Commissioner of the New Mexico Public Utility Commission from March 1995 to December 1998, serving as Chairman from August 1995 to December 1998.

While a Commissioner, Wayne was a member of the National Association of Regulatory Utility Commissioners (NARUC) Committee on Energy Resources and the Environment and the NARUC Ad Hoc Committee on Electric Industry Restructuring. Prior to serving on the New Mexico PUC, he held a variety of regulatory positions including General Counsel of the New Mexico State Corporation Commission, Director of the Energy Unit of the New Mexico Attorney General's Office, where he was New Mexico's chief consumer advocate, and as attorney for the New Mexico Industrial Energy Consumers.

Wayne has shared his regulatory expertise with regulators and governments of China, India, the Philippines, Zambia, Mozambique, Namibia, Lesotho, Mauritius, Poland, Malawi, Ghana, Indonesia, Egypt, Nepal, Bangladesh and Khyrgistan.

Wayne received his J.D. in 1976 from the Southern Methodist University School of Law and a Bachelor of Business Administration in Finance in 1973 from the University of Texas at Austin.

Debra Sundin, Xcel Energy, Director, Business Product Marketing and CIP/DSM

Deb has been with Xcel Energy for 27 years, involved in DSM through Product Management, Market Research, and Regulatory Management. She is currently responsible for overall DSM strategy as well as the business and residential conservation and demand response programs in Minnesota, Colorado, Texas, and New Mexico.

From 1979 to 1991 she provided market research support to Northern States Power and was involved in conservation program design and evaluation work. She became the manager of Residential Marketing in 1992, implementing programs such as Saver's Switch, Appliance Rebates, Appliance Recycling and Lighting. In 1998 she transitioned to Manager, Energy Management, where she was responsible for strategic market planning for business products as well as DSM regulatory strategy and filings. Since the merger that created Xcel Energy in August 2000, she has been managing conservation and load management efforts at Xcel Energy.

Deb received her BS degree in Business Administration from Bemidji State University, and her MBA degree from the University of St. Thomas.

Steve Wiel, Southwest Energy Efficiency Project, Nevada Representative

Stephen Wiel is the Nevada Representative for the Southwest Energy Efficiency Project (SWEET), a public interest organization promoting energy efficiency policies and programs in the states of Arizona, Colorado, Nevada, New Mexico, Utah and Wyoming. SWEET is based in Boulder, Colorado.

During the 1980s, Mr. Wiel served for 8 years as a Nevada Public Service Commissioner, presiding over several integrated resource plan filings and related dockets. He was also prominent in the commissioners' national organization, the National Association of

Regulatory Utility Commissioners (NARUC), serving as chairman of NARUC's Energy Conservation Committee for four years.

Mr. Wiel is currently the President of the Board of the Collaborative Labeling and Standards Program (CLASP), a global non-profit corporation he helped found that serves as the world's primary international voice and resource for energy efficiency standards and labeling worldwide.

During his tenure as head of the Energy Analysis Department at Lawrence Berkeley National Laboratory (LBNL), he established LBNL's Washington Office, led the greenhouse gas mitigation component of the U.S. Country Studies Program, served as senior advisor to the U.S. Department of Energy on integrated resource planning and demand-side management in the utility sector, and created the initiative on international energy efficiency standards and labels that evolved into CLASP.

Mr. Wiel also serves on the Board of Directors of the American Council for an Energy Efficient Economy. He holds a Bachelor's and Master's degree in Chemical Engineering from Stanford University, and a Doctorate from the University of Pittsburgh, Graduate School of Public and International Affairs. He has published 151 books, articles, reports, and papers on the subject of energy efficiency and the environment, and has served as a member of teams advising officials on energy efficiency matters in Pakistan, the Philippines, Indonesia, Japan, China, Australia, Poland, Czechoslovakia, Romania, the Russian Federation and Mexico.

Sarah Wright, Utah Clean Energy, Executive Director

Sarah Wright is the executive director and founder of Utah Clean Energy, a non-profit organization committed to advancing clean energy in the Utah and the West. Sarah works on public policy, utility regulatory issues, and public education and outreach to drive greater deployment of energy efficiency and renewable energy solutions. She serves on Governor Huntsman's Energy Advisory Council and Climate Change Council. Prior to founding Utah Clean Energy, she worked for 15 years as an

environmental consultant serving Utah's industrial, commercial, and public sectors. Sarah has a BS in Geology and Master of Science in Public Health.