

**Solar Incentive Workgroup – Technical Conference March 9, 2012**  
**Sandia National Laboratories Staff Bios**

**Robert J. Broderick** is the Technical Lead of Distributed Grid Integration Programs at Sandia National Labs.

Prior to working for Sandia National Labs, Robert worked as a consultant for TRC Engineers, Inc. focused on solving problems for PV project developers and performing comprehensive grid integration studies for utility clients.

Robert worked at PNM (largest IOU utility in New Mexico) as the manager of renewables and developed and managed the successful customer-side PV program, which is expected to achieve over 20 MW of new PV installations by 2012 in PNM's service territory. Robert also worked as a senior power engineer in PNM's Distribution Planning Department and Customer Generation Department. Robert took a lead role in writing New Mexico's new interconnection standard utilizing industry best practices and IEEE 1547.

He joined the Southwest Technology Development Institute from 2000 to 2003 as a research engineer testing new renewable energy technologies. Prior to 2000, Robert was employed in the solar industry at PV companies in Colorado and California working in system design, project management and product design.

Robert is a Professional Electrical Engineer. He received a Master degree in Power Systems Engineering from New Mexico State University and a BA degree in Physics from University of Colorado at Boulder.

Robert is a Member of the IEEE Power Engineering Society and a member of the Distributed Generation and Energy Storage (DG&ES) Working Group.

**Roger Hill** is a Principal Member of the Technical Staff at Sandia National Laboratories in Albuquerque, New Mexico and currently works in the area of Solar Market Transformation and wind turbine reliability standards. He recently served as staff support in the DOE Wind program in Washington, DC in the areas of wind turbine reliability and the manufacturing supply chain. Prior to this assignment he led the wind turbine reliability effort at Sandia and has past experience in the Wind Powering America effort.

Roger served as the Technical Director of the DOE GeoPowering the West Program working with the states and industry throughout the West in outreach and market efforts. His background includes a decade working in the Sandia Photovoltaic Design Assistance Center where applied photovoltaic projects were promoted with considerations of institutional, economic, and policy constraints. A significant element of his renewables work has been focused on Native American energy projects.

Mr. Hill has a BSEE (Power Option) from Kansas State University and has worked for the Kansas Power and Light Co. in the design and construction of power substations. At Westinghouse Hanford, he worked on both fusion and fission projects.

At Sandia, he has been active in other projects ranging from facility engineering to nuclear waste storage.

**Jimmy E. Quiroz** is a Member of Technical Staff in the Photovoltaics and Distributed Systems Integration department at Sandia National Labs.

Prior to working for Sandia National Labs, Jimmy worked as a distribution planner for Public Service Company of New Mexico, with later focus on performing PV grid integration studies. He also previously worked in the Transmission and Distribution Standards department at Arizona Public Service.

Jimmy is a Professional Electrical Engineer (PE). He received his Bachelor and Master degrees in Power Systems Engineering from New Mexico State University.

Jimmy is a Member of the IEEE Power & Energy Society.