

**Dr. J. Paul Farrell, President and CEO:** Dr. Farrell has more than 40 years experience in the research and commercialization of nuclear and particle beam technology. In the area of electron and ion accelerators, he worked for 12 years with Radiation Dynamics Inc. (RDI), currently a division of the Belgian company, IBA, where he was responsible for beam line design, systems design and installation, and start-up demonstration of many research and industrial accelerator systems. As Head of Systems Engineering at RDI, he led the development of a \$50 million high power electron accelerator system purchased by Becton Dickinson Corporation for the radiation sterilization of medical products. Later, Dr. Farrell served as chief consultant to TITAN Corporation of San Diego, California, currently a division of L3 Communications, on the start-up of their \$5 million 10 MeV electron accelerator for the radiation sterilization of medical products. While at RDI, he obtained patents for a method to improve the lifetime of tritium targets used for neutron cancer therapy and for a method of regulating the energy of a DC electron accelerator during high current pulsed operation. He joined General Ionex Corp. as Head of Physics in 1982 where he led an \$8 million project to develop and commercialize high-energy ion implantation of semiconductors using the Tandetron DC ion accelerator, a system that is currently employed by Varian Semiconductor Equipment Associates. Dr. Farrell has served as PI on seven U.S. Department of Energy and U.S. Department of Defense funded SBIR awards and has consulted with numerous corporations on accelerator technology including: BD Becton Dickinson, Steris, Baxter Travenol (now Baxter International), Isomedix (now Steris Isomedix) and Titan Corporation. Dr. Farrell holds three patents in the field of accelerator design and has three patents pending. In 2010, Dr. Farrell was inducted into the Long Island Tech Hall of Fame as the 2010 patent award winner in the area of Innovation in Industry - "System and Method for Detecting Concealed Nuclear Materials, Radiological Materials and Chemical Explosives." In addition to his role with RADIX, Dr. Farrell serves as President of Brookhaven Technology Group, Inc., an advanced technology research and development company, which he founded in 1987, that designs and develops technologies for U.S. Department of Energy and U.S. Department of Defense applications.

**Education:** Ph.D., University of Pittsburgh; B.Sc., University of Chicago.

**Philip O. Moor, Program Director:** Mr. Moor brings to the RADIX effort over 30 years of experience and expertise in the commercial development of infrastructure technologies and in leading business initiatives. In the nuclear arena, Mr. Moor has been closely involved with the design, engineering, construction, operation, and decommissioning of nuclear facilities around the world and possesses a deep knowledge of reactor technologies and the challenges facing nuclear energy projects. Mr. Moor directs the development of the RADIX MMR program. Prior to joining RADIX, Mr. Moor was VP of commercial nuclear programs at Tetra Tech where he secured and led licensing, owner's engineer and consulting contracts. Previously, he was Director of Project Development at Burns and Roe where, in addition to numerous new reactor assignments, he was Project Manager of the Toshiba 4S small reactor program for Galena, Alaska. As Project Director for ABB Equity Ventures, he developed build, own and operate \$250m-\$1b power, commodity and airport infrastructure projects in the U.S., Brazil, Puerto Rico and Trinidad. Mr. Moor served as Director for Project Management at General Public Utilities Nuclear where he was responsible for managing all capital expenditures regarding the modernization and rehabilitation at GPUN's nuclear generating facilities. Mr. Moor has been a speaker at numerous technical conferences and testified before the U.S. House Energy and Commerce Committee on small modular reactors. A licensed Professional Engineer and member of the Canadian Nuclear Society, Mr. Moor is the Chairman of the American Nuclear Society President's Committee on Small Nuclear Reactors and is widely recognized as an industry leader on small reactors.

**Education:** M.S., Engineering Management, New Jersey Institute of Technology; B.S., Mechanical Engineering, Fairleigh Dickinson University.