

Robert J. Lofaro

Fields of Expertise

Project Management, Engineering Analysis of Energy Systems, Solar Photovoltaic systems, Nuclear Power Plant Systems and Components, IEEE Codes and Standards; Aging Assessment, Plant Life Extension, Environmental Qualification of Electric Components, Electric Equipment Aging and Testing, Electric Cable Condition Monitoring; Nuclear Plant License Renewal

Education and Training:

B.E., Mechanical Engineering, SUNY Stony Brook

M.S., Mechanical Engineering, Univ. of Southern California

M.S., Environmental and Waste Management, SUNY Stony Brook

License: Professional Engineer, State of California

Professional Experience:

2010-Present Brookhaven National Laboratory: Group Leader, Renewable Energy Group. Responsible for the supervision of a group of scientists and engineers performing research in various areas of renewable energy and Smart Grid development. Principal Investigator for Solar Energy Research program in support of the DOE/EERE Solar Energy Technologies Program.

2007-2010 Brookhaven National Laboratory: Special Assistant to the Associate Laboratory Director, Global and Regional Solutions (GARS) Directorate. Responsibilities include providing technical and management assistance to the ALD for the successful completion of Directorate science and technology programs.

1999-2007 Brookhaven National Laboratory: Senior Research Engineer
Principal Investigator/Project Manager for NRC programs on nuclear power plant electrical equipment aging and testing, and environmental qualification. Responsibilities include providing technical guidance and oversight of research programs, as well as the performance of research on aging, life extension, and environmental qualification of nuclear power plant electrical components. Managed the Electric Component Test Facility at BNL. Co-contributor to IEEE Standard 323-2003 on Environmental Qualification as a member of IEEE Working Group 2.1.
Principal Investigator/Project Manager for NRC Collaborative Research Program. Responsible for performing research jointly with other organizations in the area of wire system aging and condition monitoring.

1992-1998 Brookhaven National Laboratory: Group Leader of Engineering and Testing Group. Responsible for providing technical guidance and management oversight for a group of 8 engineers, a scientist and a technician.
Principal Investigator/Project Manager for the Environmental Qualification (EQ) Research Program on Electric Cables (1993-2000).

1987-1992 Brookhaven National Laboratory: Research Engineer performing equipment and system analysis in support of the Nuclear Plant Aging Research (NPAR) program.

1980-1987 Rockwell International: Engineer. Performed technical analysis in the area of thermo-hydraulics in support of liquid metal test facilities for power plant components at the Energy Technology Engineering Center (ETEC).

Major Accomplishments

- Project Manager for Development of research agenda on solar energy at Brookhaven National Laboratory, including data collection from 32MW-ac Long Island Solar Farm and development of a 1MW-ac solar PV research array on the BNL campus.
- Project Manager for performance of \$10 million research program for the US Nuclear Regulatory Commission on Environmental Qualification of Cables
- Project Manager for \$10 million research program on aging of nuclear plants for the US Nuclear Regulatory Commission.