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EDUCATION: M.Sc. Physics, McMaster University, Hamilton, Ontario, 1985.
B.Sc. Physics and Environmental Science, Trent University, Peterborough,
Ontario, 1982.

SIGNIFICANT ACCOMPLISHMENTS:

1999-present	Nuclear Analysis Methods and Applications Group, Nuclear Science and Technology Division, Oak Ridge National Laboratory. Responsible for development of the ORIGEN-S depletion and decay analysis code and associated nuclear data. Development and validation of spent fuel analysis capabilities in SCALE code system.
1999 – 2000	DOE Yucca Mountain Project. Analysis and independent evaluations of Commercial Reactor Criticals used for code and methods validation.
2000 – 2002	Development of technical bases for U.S. Nuclear Regulatory Commission staff guidance on burnup credit. Technical lead for recommendations on methods for analysis of nuclide uncertainty in burnup credit.
2002 – present	Project lead for NRC 189 program on high-burnup source terms and expansion of decay heat regulatory guide.
2000 – present	SCALE training workshops courses in the United States; specialized workshops in Europe for EURATOM safeguards inspectors; specialized workshops for source terms and criticality in Latin America for IAEA.
2000 – present	Project leader DOE Office of International Safeguards program with EURATOM. Development of depletion methods for European MOX fuel using ORIGEN-ARP, data libraries for MOX and LEU fuel types, analysis methods for domestic weapons-grade Pu storage vaults.
2002	Project leader in LANL subcontract to develop improved neutron source methods in ORIGEN-S for DOE Fissile Materials Disposition Program.

- 1997 – 1999 Radiation physics and criticality safety analysis support for the MAPLE reactors and isotope processing facility, Atomic Energy of Canada Limited. Responsible for shielding design, radiation source terms for design and accident analysis, on-site and public dose assessment, nuclear criticality safety, dry fuel storage facility design support, and contributions to code validation program.
- 1992 – 1997 Project manager for Canadian nuclear power utilities (CANDU Owners Group) program to upgrade and standardize the radiation physics software and nuclear data libraries used to support CANDU licensing. Directed and coordinated code development, nuclear data library development, verification and validation programs, and software documentation.
- 1997 – 1998 Task leader for used fuel characterization in support of environmental safety assessments for the Canadian Nuclear Fuel Waste Management Program.

**PROFESSIONAL
ACTIVITIES:**

- 2000 – present Member American Nuclear Society (ANS)
2002 – present Review Committee member for the Nuclear Criticality Safety Division (NCSD)
2002 – present Technical reviewer for journal *Nuclear Technology*

PUBLICATIONS: Available on request.