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EDUCATION: Ph.D. in Nuclear Engineering, Texas A&M University, 1992.
M.S. in Nuclear Engineering, Texas A&M University, 1986.
B. S. in Nuclear Engineering, Texas A&M University, 1984.

SIGNIFICANT ACCOMPLISHMENTS:

1993–present	Reactor and Fuel Cycle Analysis, Nuclear Engineering Applications Section, Computational Physics and Engineering Division, Oak Ridge National Laboratory. General background in the development, application, and validation of nuclear analysis tools and data for criticality safety and spent fuel characterization.
1995-Present	Project leader for burnup credit. Performed code validation against experimental data and analytic studies to understand and quantify technical issues and related uncertainties.
1995-Present	Project leader for development of 2-D arbitrary geometry radiation transport code NEWT, and for the development of a 2-D depletion sequence for SCALE (SAS2D) based on NEWT. Provided a seminar and hands-on training for the use of NEWT and SAS2D for the Consejo de Seguridad Nuclear, Spain.
1999	Consultant to Korea Power Engineering Company (KOPEC) for research and development activities in the application of burnup credit in PWR fuels.
1993–present	US representative and active participant of OECD/NEA Working Group on Burnup Credit. Lead author of OECD/NEA report on PWR burnup credit depletion calculations (Phase I-B).
1992–1993	Scientific Computations Section, Savannah River Technology Center, Westinghouse Savannah River Co. Responsible for reactor analysis methods development, and verification and validation of reactor and criticality safety analysis computer codes.
1989-1992	Nuclear Engineering Section, Savannah River Laboratory, Westinghouse Savannah River Co. Performed accident analysis physics calculations in support of thermal-hydraulics analysis for reactivity insertion accidents. Also developed theory for the Extended Step Characteristic approach for discrete ordinates calculations in arbitrary grid structures.

**PROFESSIONAL
ACTIVITIES:**

1982–present	Member American Nuclear Society (ANS), Alpha Nu Sigma, Tau Beta Pi
1997–present	Session organizer and chair for technical sessions at national conferences.
1998–present	Program Committee member for the Nuclear Criticality Safety Division (NCSD) of ANS
1998-present	Coordinated and assisted in development of web-based electronic paper review for NCSD Program Committee
1999-present	Electronics Communications Chair and Assistant Technical Program Chair for SPECTRUM-2000 Topical Meeting
2000	Chairman, ANS Nuclear Criticality Safety Division

PUBLICATIONS: Over 50 publications in journals, conference proceedings, and national laboratory reports related to computational methods and applications in radiation transport, criticality safety, and depletion methods for spent nuclear fuel.