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Professional Experience

- **1986-Present.** Argonne National Laboratory, Argonne, Illinois
 - 1992-Present. Nuclear Engineer, Nuclear Engineering Division
 - 1987-1992. Assistant Nuclear Engineer, Nuclear Engineering Division
 - 1986-1987. U.S. Department of Energy (DOE) Magnetic Fusion Energy Technology Postdoctoral Fellow

Education

- PhD, Nuclear Engineering, University of Washington, 1986
- MS, Nuclear Engineering, University of Washington, 1984
- BS, Engineering, University of Washington, 1982

Research Experience

- 2004-Present. Systems Analysis of Hydrogen Storage Options funded by the DOE-Office of Energy Efficiency and Renewable Energy
- 1997-2004. Electrorefining of Spent Fuel funded by the DOE-Office of Nuclear Energy
- 1994-1997. ITER Test Blanket funded by the DOE-Fusion Energy Sciences (FES)
- 1992-1997. Plasma-Surface Interactions funded by the DOE-FES
- 1990-1995. Fusion Reactor Design funded by the DOE-FES
- 1987-1995. Magneto hydrodynamics Analysis of Liquid Metal Blanket funded by the DOE-FES

Professional Society Affiliations

- Reviewer for American Nuclear Society, Nuclear Technology, and Fusion Technology

Publications & Patents

- 1 patent
- Selected Publications
 - R. K. Ahluwalia, T. Q. Hua, and D. Vaden, "Uranium Transport in a High Throughput Electrorefiner for EBR-II Blanket Fuel," Nuclear Technology, 145, 1, 67-81, 2004.

- R. K. Ahluwalia and T. Q. Hua, "Electrotransport of Uranium from a Liquid Cadmium Anode to a Solid Cathode," *Nuclear Technology*, 140, 1, 41-50, 2002.
- R. K. Ahluwalia, T. Q. Hua, and H. K. Geyer, "Removal of Zirconium in Electrometallurgical Treatment of Experimental Breeder Reactor II Spent Fuel," *Nuclear Technology*, 123, 103-118, 2001.
- R. K. Ahluwalia, T. Q. Hua, and H. K. Geyer, "Behavior of Uranium and Zirconium in Direct Transport Tests with Irradiated EBR-II Fuel," *Nuclear Technology*, 126, 289-302, 1999.
- T. Q. Hua and J. N. Brooks, "Erosion/Deposition Analysis of the DIII-D Divertor," *Journal of Nuclear Materials*, 220, 342-346, 1995.
- T. Q. Hua and Y. Gohar, "MHD Pressure Drops and Thermal Hydraulic Analysis for the ITER Breeding Blanket Design," *Fusion Engineering and Design*, 27, 696-702, 1995.
- T. Q. Hua and J. N. Brooks, "Analysis of the Tokamak Sheath Region with In-Sheath Ionization and Transport of Surface Emitted Particles," *Physics of Plasmas*, 1, 11, 3607-3613, 1994.
- T. J. Moon, T. Q. Hua, J. S. Walker, and B. F. Picologlou, "Liquid Metal Flow in a Backward Elbow in the Plane of a Strong Magnetic Field," *Journal of Fluid Mechanics*, 227, 1991.
- T. Q. Hua and J. S. Walker, "Three-Dimensional MHD Flow in Insulating Circular Ducts in Non-uniform Transverse Magnetic Fields," *International Journal of Engineering Science*, 27, 1079, 1989.
- T. Q. Hua, L. R. Turner, M. J. Knott, and R. B. Wehrle, "Experimental Modeling of Eddy Currents and Deflection for Tokamak Limiters," *Fusion Technology*, 10, 2, 1986.
- T. Q. Hua and L. R. Turner, "Coupling Between Eddy Currents and Rigid Body Rotation: Analysis, Computation and Experiment," *IEEE Transactions on Magnetics*, MAG-21, 1985.