

# CURRICULUM VITAE

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## EDUCATION:

**University of Washington:** BA in Physical Anthropology 1972  
Minors in Math, Chemistry, and Physics  
Graduate study in Engineering

## EXPERIENCE:

1978-Present: Microlab Northwest - Owner and Principle Analyst - Consulting for Government and Industry - Teaching Environmental Sampling and Microanalytical Technique  
1973-2001: Boeing - Acting Supervisor of the Particle Identification Laboratory and the Image Analysis Laboratory.  
Boeing Specialist in Clean Room Technology and Contamination Control  
1987, July: Visiting Scholar, Imperial College in London, UK  
1985, June: Visiting Scholar, Imperial College in London, UK  
1983: President of the Northwest Chapter of the Institute for Environmental Sciences  
1981-1989: University of Washington - Associate Faculty – Materials Sciences Engineering  
1980-1986: President of the Northwest Microscope Association  
1978-1981: Northrup Services - Contract Instructor - Taught EPA Classes in Small Particle Identification and Asbestos Analysis  
1970-1973: Bellevue Police Department - Criminalist - Trace evidence analysis  
1964-1970: Bunker Hill Company - Chemist, Production Manager - Non-ferrous metal chemistry

## OTHER:

- Research and Publications on Copper Migration in Transformers, 2007-2010
- Principle Investigator: LTC Failure Mechanisms, Electric Power Research Institute (EPRI), 1997-2005
- Published Many Papers on Non-Gas Oil Diagnostics for Oil-Filled Electrical Equipment 1980-Present
- Instructor, Particles and Health Seminar, Professional Industrial Hygienist Association, 2005-2007
- Keynote Speaker, Healthy Indoor Environments Conference, Kansas City, Oct. 13-14, 2005
- Instructor, Particles and Health Seminar, American Industrial Hygiene Association, 2005, 2007
- Principle Investigator of surface contamination for the National Aeronautics and Space Administration (NASA) Long Duration Exposure Facility (LDEF) Satellite, 1989-1993.
- Expert Witness in Civil and Criminal Courts; Municipal, District, State and Federal
- Coordinated Numerous Specialty Seminars on Clean Room Technology, 1982-1984
- One of the three original instructors for the EPA classes in Asbestos Analysis, 1980
- Participant in the EPA Quality Control Asbestos Analysis Program since round #1, 1980
- NVLAP Accreditation; Round 1 Through 20, Laboratory #1089
- Consultant to U. S. Environmental Protection Agency (EPA) on particle identification and characterization of particle sources since 1974.
- Have written over eighty publications on the use of the light microscope in the analysis and characterization of materials.
- Author of Text and Instructor for an 8-hour Professional Development Course, *Particles and Health: Environmental Forensic Analysis*, Sponsored by the American Industrial Hygiene Association, 2005, 2006, 2007, 2008