

R N A Consulting, Incorporated
Specializing in forensic materials engineering and sciences

Robert N. Anderson, Ph.D., P.E., President

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CV – Robert N. Anderson, Ph.D., P.E., President

- Name:** Robert Neil Anderson, Ph.D., P.E., P.I.
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Specializing in forensic materials and metallurgical engineering and sciences
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Tel: Office: 650-949-1092.Fax:650.949.5641.
Cell: 650-464-1620. Email: robertna@aol.com
- Education:** Stanford University: Ph.D. Metallurgy, School of Applied Earth Sciences.
U.C. Berkeley: M.S. Chemical Engineering; Minor: Petroleum Engineering,
U.C. Berkeley: B.S. Chemical Engineering.
University of San Francisco: B.S. Chemistry,
- Patents:** High temperature reprocessing of nuclear fuels, nuclear reactor, and extraction of reactive metals from their ores.
- Licenses:** Registered Metallurgical Engineer, California No. 1490
Registered Nuclear Engineer, California No. 91
Private Investigators License, CA No. 14033
Pilot license: 1577209: Amateur Radio License: KC6ZWG, general.
Certified by IBFES Board in the specialty of Forensic Engineering Sciences

Consultant and Expert Witness:

Dr. Anderson is a testifying expert in metallurgical and materials engineering, with 35+ years of experience serving courts in the U.S. and Canada. His specialties include materials and metallurgical failure analysis, corrosion, thermodynamics, engineering design failure, electrical fires, ballistics, and accident analysis.

He is an emeritus professor of materials engineering, San Jose State University, San Jose, CA. In the forensic sciences area, his clients include legal firms and insurance companies. He has both plaintiff and defense experience in civil and criminal matters; he is experienced as a court appointed expert. He has designed and led workshops in presentation of evidence to the jury.

Case areas include:

- Failure of materials - metals, wood, glass, ceramic, rubber, composites, plastics.
- Systems and product design failure analysis, and reliability evaluation.
- Investigations involving paint, adhesives, chemicals, and asbestos.
- Failures due to construction accidents or building materials failures including system design, materials selection, manufacture, and/or maintenance.
- Accident analysis involving materials and metallurgical failures, including industrial, vehicular accidents, aircraft, recreational and sports equipment.
- Fire cause determination involving materials and high temperature analysis.
- Corrosion, including metals interface or piping, materials analysis.
- Materials failures of medical devices and implants.
- Materials and metallurgical expert in firearms, ballistics, and explosions.

Past Academic Positions:

Emeritus Professor: Materials Engineering, School of Engineering, San Jose State University, San Jose, CA.

Associate Professor: Metallurgy, School of Earth Sciences, Stanford University, CA.

Past Industrial Positions:

U.S. Naval Radiological Defense Lab: Research Engineer, Operations Research Analyst.

Professional Associations, Offices:

- International Board of Forensic Engineering Sciences (IBFES), Diplomat. Immediate past president.
- The Forensic Sciences Foundation, Inc. past board member.
- American Academy of Forensic Sciences (AAFS): Fellow. Member: Board of Directors 2008-2010. Past Section Chair: 2004-2005; 1996-97.
AAFS Board 2012: Nominee for U.S. National Medal of Science. Engineering Sciences.
- National Academy of Forensic Engineers (NAFE): Fellow; Past President.
- Society of Forensic Engineers and Scientists (SFES): Founding Member 1980/Past President/Past Secretary-Treasurer.

Community Service Offices:

- Member, Immediate Past President, Board of Directors: Purissima Hills Water District (PHWD), Los Altos Hills, CA.
- Member Board of Directors: Bay Area Water Conservation & Supply Agency (BAWSCA).
- Member of Town of Los Altos Hills Emergency Communications Committee, appointed.

Other Professional Affiliations:

American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME)
American Institute of Chemical Engineering (AIChE)
American Society for Metals (ASM); American Chemical Society (ACS)
American Ceramic Society (ACerS); American Welding Society (AWS)
American Institute of Archaeology
Forensic Expert Witness Association (FEWA)
International Association of Arson Investigators
National Society for Professional Engineers (NSPE)
National Association of Corrosion Engineers (NACE)
Society for the Advancement of Material and Process Engineering (SAMPE)
Society of Automotive Engineers (SAE); Society of Plastics Engineers (SPE)
Society of Wood Science and Technology (SWST)
The Materials Research Society (MRS)

Special Recognition/Highlights

Member: Alpha Chi Sigma; Tau Beta Pi; Sigma Xi
U.S. Navy Doctoral Fellowship Award
Post Doctorate: Stanford University 1969 - 1971
Special Achievement Award; American Academy of Forensic Sciences 1990
Community Volunteer Service Awards: Emergency Communications.

Publications, Presentations Highlights:

Author: "The Art of Mentoring in an Engineering Environment." Presented: General Assembly: AAFS meeting Feb. 2014, Seattle, WA.

Author: "A Really Big Corrosion Litigation," Presented to the Engineering Section AAFS 64th Annual Scientific Meeting Feb. 2012, Atlanta, GA; and SFES technical meeting 2012, Los Gatos, CA

Author: "Odor Fade in Propane & LPG, A Thermodynamicist looks at 'where did the mercaptan go?'" Presented to NAFE (National Academy of Forensic Engineers), 2012, San Diego, CA & to the SFES (Society of Forensic Engineers & Scientists), 2011, Solvang, CA.

Author: 2012 update: Materials chapter in the Wiley Encyclopedia of Forensic Science.

Co-Editor: ASTM publication on the "Use of Standards in Litigation."

Co-Author: "Legal Issues in a Metallurgical Failure Resulting in Death," co-presented with Attorney. Engineering Section, AAFS Annual Meeting 2011. Chicago IL.

Co-Author: "A Unified Theory of Rubber Friction." Technical meeting 2010. Rubber Division, American Chemical Society.

Author: "Failure Analysis of Molded Rubber Gaskets: O-Ring in a Hydraulic System." Presented at AAFS Feb 2008, Annual Meeting; in Spain, 2008 at the 3rd International Conference on Engineering Failure Analysis.

Author: "Elements and Impacts of Corrosion," NACE, 2009.