

QUALIFICATIONS SUMMARY

48 years of R & D experience in electrochemistry, corrosion and materials science. About 100 papers in refereed and internationally accredited journals. About 150 proceedings papers and technical reports.

Areas of Specialization: Corrosion in aqueous media, light metal surface science, aqueous and solid-state electrochemistry, mathematical modeling of electrochemical systems, solid-oxide fuel cells and membranes.

EDUCATION

- 1968-73 University of California at Berkeley, M.S. (1969) and Ph.D. (1973) in Chemical Engineering.
1964-68 Massachusetts Institute of Technology, B.S. in Chemical Engineering. Received Clark Foundation Scholarship.

EXPERIENCE

- 1986- Professor, Department of Materials Science and Engineering, Norwegian University of Science and Technology (NTNU); Department Head 1997-98, 2002, Assistant Head 1999-2001.
Teach undergraduate and graduate level courses in Corrosion and Surface Technology, Electrochemical Engineering and Transport Phenomena.
Current research work includes Corrosion and Surface Science of Light Metals, AC Corrosion, Hydrogen Entrainment and Diffusion in Steel, Oxygen Exchange and Diffusion in Mixed Ionic-Electronic Conducting Nonstoichiometric Oxides.
- 2006-07 Visiting Professor at departments of Materials Science and Engineering at Technical University of Istanbul and Technical University of Denmark
- Fall 2003 Visiting Professor, Department of Chemistry, Technical University of Denmark, Lyngby, Denmark
- 1986-98 Senior Scientific Advisor, Division of Materials Technology, Foundation for Industrial and Scientific Research at NTH (SINTEF).
- 1996-97 Visiting Professor, Department of Photonics and Interfaces, Swiss Federal Institute of Technology Lausanne (EPFL).
- 1990-91 Visiting Professor, Department of Materials Science and Engineering, Stanford University.
- 1978-86 Group Leader, Corrosion, Division of Metallurgy, SINTEF.
- Fall 1981 Visiting Scientist, Dept. of Metallurgy and Mining, University of Illinois at Urbana-Champaign.
- 1976-78 Research Associate, Royal Norwegian Council for Scientific and Industrial Research.
- 1975-76 Instructor, Dept. of Chemical Engineering, Middle East Technical University, Ankara.
- 1973-75 Postdoctoral Fellow, Royal Norwegian Council for Scientific and Industrial Research.
- 1968-73 Research Assistant, Inorganic Materials Research Division, Lawrence Berkeley Laboratory.

MEMBERSHIP, INTERNATIONAL ORGANIZATIONS

International Corrosion Council (Council Member until 2005), European Federation of Corrosion (Working Groups for "The Use of Surface-Analytical Techniques in Corrosion Science" and "Corrosion Education"), Federation of European Chemical Societies Working Party on Electrochemistry (Norwegian Member), European Federation of Chemical Engineers Working Party on Electrochemical Engineering (Elected Member), International Society of Electrochemistry, The Electrochemical Society, National Association of Corrosion Engineers.

Member, The Norwegian Academy of Technological Sciences (NTVA).