

Abbreviated Curriculum Vita

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US Citizen

Education

1970 Ph.D. Harvard University, Cambridge, MA, Geosciences
1964 M.Sc. Hebrew University, Jerusalem. Israel, Geology (minor in chemistry)

Appointments:

July 1 2006 - present Distinguished Professor, Scripps Institution of Oceanography
July 1 1982 – 2006 Professor, Scripps Institution of Oceanography
July 1 1977 – 1982 Associate Professor, Scripps Institution of Oceanography
July 1 1972 – 1977 Assistant Professor, Scripps Institution of Oceanography
1971 - 1972 Research Associate: University of Chicago, Department of Geophysical Sciences
1970 - 1971 Research Associate: Harvard University, Department of Geological Sciences

Academic/Administrative Positions

2001 - 2002 Chair of Scripps Institution of Oceanography (SIO) Faculty
2000 – 2001 Vice-Chair SIO Faculty
1994 - 1999 Associate Director: Geosciences Research Division, SIO
1989 - 1994 Director: Geosciences Research Division, SIO
1998 – 1999 Chair of Academic Senate Committee on Research
1978 - 1982 Curricular Group Coordinator: Geological Sciences, SIO

Awards and Honors:

2011 **Francis Shepard Medal**, Society Economic Paleontologists Mineralogists
2010 **Fellow**, International Association of Geochemistry
2010 Best SIO teacher - undergraduate students
2008 **Maurice Ewing Medal**, American geophysical Union
2004 **Fellow**, Geological Society of America
1999 **Hans Petterson Medal**, Royal Swedish Academy of Sciences
1998 **Fellow**, Geochemical Society and The European Association for Geochemistry
1997 **Fellow**, American Geophysical Union
1995 - 1996 **Distinguished Lecturer**, Joint Oceanographic Institution
1993 - 1994 **Phi Beta Kappa Visiting Scholar**
1993 **Fellow**, American Association for the Advancement of Science
1991 **Ocean Science Education Award**: Office of Naval Research
1984 **Award for Service through Chemistry**: American Chemical Society
1984 **Honorary Doctorate**, University of Paris XI, France
1982 **Guggenheim Fellow**
1980 **Newcomb Cleveland Prize**, American Association for the Advancement of Science
1964 **Fulbright Grant**

Select National, International, and US Government Service (1980-Present)

2006 – 2007 Elector for Woodwardian Professorship, Cambridge University, England
2005-2006 Review Committee of the Netherlands Royal Oceanographic Institute NIOZ
2004 - 2010 Advisory Board, American Chemical Society, Petroleum Research Fund
2003 Committee Member, Future Needs in Deep Submergence Science: National Research Council
2002 - present US representative: Euro-Margins Review Panel
2002 - 2003 US Representative: Scientific Committee on Oceanic Research (SCOR)
2001 - present Member of Methane Hydrate Advisory Committee to the Secretary of Energy, Department of Energy

2001 - 2003 Member, Ocean Studies Board: National Research Council
 2000 - 2002 Panel Member: NSF Graduate Research Fellowship Evaluation Committee
 1997 - 1998 Steering Committee Member on Strategy for Methane Hydrates Research and Development:
 Department of Energy
 1986 - 1987 Steering Committee Member, 2nd Conference on Scientific Ocean Drilling: NSF Ocean
 Drilling Program
 1986 - 1988 Advisory Committee Member: NSF Division of Earth Sciences
 1984 - 1990 Planning Committee Member: Ocean Drilling Program
 1980 - 1984 Chair, Inorganic Geochemistry Panel: International Program of Ocean Drilling

Editorial Service/Positions

2005 - 2012 *Geofluids*: Editorial Board
 1994 - 2000 *Aquatic Geochemistry*: Editorial Board,
 1991 - 1995 *Annual Review Earth and Planetary Sciences*: Editorial Committee
 1988 - 1999 *Earth and Planetary Science Letters*: Editor
 1986 - 1989 *Applied Geochemistry*: Associate Editor,
 1980 - 1988 *The Journal of Sedimentary Petrology*: Associate Editor

Select University and Professional Society Service (1985-Present)

2012 – present Faculty Welfare Committee, University of California San Diego
 2011 - present Chair Maurice Ewing medal committee, American Geophysical Union
 2009 - 2011 Chair of Library committee Scripps Institution of Oceanography
 2007 - 2010 University of California San Diego Chancellor Advisory Committee on Status of Women
 2002 - 2006 Co-Chair of Unified Laboratory facilities of Scripps Institution of Oceanography
 2002 – 2006 AGU Ocean Science Fellow Committee
 1998 Chair Goldschmidt Medal Committee: The Geochemical Society
 1998 Chair of Academic Senate Committee on Research, University of California San Diego
 1997 - 2006 University of California Energy Institute Member of Intercampus Advisory Committee
 1996 - 1998 Member, Honorary Fellows Committee: The Geological Society of America
 1995 - 2002 University of California, Water Resources Center: Member of Coordinating Board
 1990 - 1994 Councilor: The Geochemical Society
 1989 Chairman, Chemical Oceanography: Gordon Research Conference

Supervised

21 Ph.D. students and 12 Postgraduate –scholars
 8 M.Sc. students and 4 Visiting students from abroad
 Many undergraduate students (Juniors and seniors) in laboratory research projects, supervised
 students at sea on numerous expeditions, both SIO Ph.D. and UCSD undergraduate students

Publication Record: Author of >175 Published papers in peer-reviewed journals and >400 abstracts,
 over ~300 presentations at scientific meetings, and workshops in the US and abroad.

Research Expertise

Marine geochemistry, with focus on the role and fluxes of fluids at plate boundaries, particularly at
 convergent margins (earthquakes) and ridge-crests (hydrothermal deposits); it involves long-term
 monitoring in observatories; Marine gas hydrates and implications for climate change, slope stability, and
 ocean chemistry; On the oceanic contribution of methane to the atmosphere; Chemical paleoceanography:
 establishing new marine phases for paleoceanographic proxies, such as seawater Sr and S isotopes, and
 utilizing existing proxies for paleo-seawater chemistry; Sediment geochemical and diagenetic processes
 with emphasis on marine authigenic minerals (i.e. phosphates, silicates, carbonates),

Shipboard Experience

Proponent and Seagoing Scientists on 11 Ocean Drilling expeditions
 Scientist and mostly Chief Scientist on numerous ocean expeditions including those involving the use of
 submersibles HUVs (Alvin, Nautile, Johnson SeaLink) and ROV's (e.g.MBARI), as well as an AUV.