

Service Activities**Research Community (Outside U.H.)**

Reviewer for National Science Foundation, Integrated Ocean Drilling Program, NOAA-SeaGrant, NOAA-NURP, Deep-Sea Research, *Geochimica et Cosmochimica Acta*, *Limnology and Oceanography*, *Journal of Geophysical Research*, *Bioscience*, *Journal of Foraminiferal Research*, *Earth and Planetary Science Letters*, Pacific American Association for the Advancement of Science, Cambridge University Press: *Earth Sciences*, *Nature*, *Science*

Current posts:

Associate Editor: *Journal of Geophysical Research—Biogeochemistry*.

Member, U.S. Advisory Committee on Scientific Ocean Drilling (USAC), the national advisory committee on scientific ocean drilling (IODP).

Chair, Time-Critical Studies Subcommittee, Ridge2000 Program

2006-

Invited speaker; Mission Moho-the Ocean Lithosphere Workshop, IODP; Portland, OR; Sept. 7-9, 2000.

Chief Scientist: Rapid response to seafloor eruption at ~9° 50' N East Pacific Rise; May 4-23, 2006.

Invited participant; Workshop on North Pond IODP project; at WHOI, Woods Hole, MA, June 5-6, 2006

Invited speaker; Life in Extreme Environments Workshop, EPSCoR Foundation's Centers Development Initiative, Las Vegas, Nevada; Jan. 13, 2006.

Participant, ORION (Ocean Research Interactive Observatory Networks): Design and Implementation Workshop; Salt Lake City, Utah; 27-30 March, 2006

Participant/speaker, European Geophysical Union General Assembly: Methods, tools and Strategies for biogeochemical interaction studies in deep-sea chemosynthetic environments; Vienna, Austria, 2-7 April, 2006

2005-

Co-organizer/Lecturer: NASA Astrobiology Institute Winter School for advanced graduate students/postdocs; Honolulu/Hilo, HI; Jan. 10-21, 2005

Chief Scientist / PI: Rapid response expedition to investigate seismic swarm on Juan de Fuca Ridge; March 5-11, 2005

Member, External Review Committee for the Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, April 5-8, 2005.

Organizing committee, Session Chair, and speaker: RIDGE 2000 Community Workshop, Oct. 30 to Nov. 2, 2005; Vancouver, British Columbia.

Chair/organizer: RIDGE 2000 Mini-Workshop on Time Critical Studies, Vancouver, B.C.; October 30, 2005

Session Chair and Organizing committee member, NASA Astrobiology Institute 2005 Conference, Boulder, Colorado, April 11-14, 2005.

Speaker, 2005 International Ocean Research Conference, TOS/UNESCO, Paris, June 6-10, 2005.

2004-

Organizing Committee, NASA Astrobiology Institute 2005 Biennium Meeting, Boulder, Colorado, April 11-14, 2005

Invited speaker, Special session on “Microbial life in the deepest regions of the earth’s biosphere”; American Society for Microbiology, 104th General Meeting, New Orleans, Louisiana, May 23-27, 2004.

Proposal Review Panel: Sea Grant Hawaii proposal, April, 2004.

2003-

Executive Committee for RIDGE 2000 program (final-year)

Chair, Organizing Committee, Ridge2000 Community Workshop; Denver, Colorado; November, 2003.

Chair, Time-Critical Studies Subcommittee, Ridge2000 Program (2003 to Present)

Member, Endeavour Integrated Studies Site Committee, Ridge2000 Program
Session Rappateur, Workshop on “Next Generation of Biological and Chemical Sensors in the Ocean”; WHOI, Woods Hole, MA; July 13-16, 2003

Session Co-Chair, Workshop on “Linkages Between the Ocean Observatories Initiative and the Integrated Ocean Drilling Program”, Seattle, WA; July 17-18, 2003.

Invited participant, “Cabled Regional Observatory Workshop”, San Francisco, October 7-9, 2003.

Invited participant, “NASA Astrobiology Institute Executive Council Retreat”, Jackson Hole, WY, October 23-26, 2003.

Invited Speaker; Gordon Conference on Chemical Oceanography, New Hampshire; August, 2003; (declined due to conflict)

2002-Panelist, NSF Panel for Geoscience CAREER; Nov. 20-22, 2002; Washington, D.C.
Panelist, Ridge2000 Proposal Relevancy Review Panel; Oct. 28-30, 2002; New York.

Participant: 5th International Symposium on Subsurface Microbiology; Copenhagen; Sept. 9-13, 2002

Executive Committee for new RIDGE 2000 program (2-year commitment)

Keynote Speaker/participant: MOMAR II (Workshop on International Sea-Floor Observatory on the Mid-Atlantic Ridge) Horta, Faial Island, Azores, Portugal. June 15-17, 2002

Invited participant: InterRidge: The Next 10 Years; Bremen, Germany; June 10-12, 2002

2001- Invited participant and Invited author of 1 of 4 Background position papers Dahlem Conference on “Energy and Mass Transfer in Marine Hydrothermal Systems”,; Berlin, Germany, October 14-19, 2001.

Executive Committee for new RIDGE 2000 program (2-year commitment)

US representative to InterRidge Program Committee on Event Detection and Response and Observatories

Coordinator, Co-chief scientist and NSF-Project Leader for Gorda Ridge April, 2001, Magmatic Event Response

Participant: Workshop on Endeavour Seafloor Observatory, U. of Washington, Seattle, WA; Jan. 8, 2001.

- 2000**-Visiting scholar; Geological Survey of Japan; Tsukuba, Japan; Sept. 18-25, 2000
 Co-Convener: Exploratory Studies Workshop, planning for new RIDGE-2000 science program; Nashville, Tenn., Oct. 5-7, 2000.
 Co-Convener: Integrated Studies Workshop, planning for new RIDGE-2000 science program; De Kalb, IL, May 18-20, 2000.
 Invited participant: National Research Council Seafloor Observatory Symposium, National Academy of Sciences, Islamorada, Florida. Jan. 9-13, 2000.
- 1999**- RIDGE 2000 Steering Committee: appointment to new RIDGE Program STCOM, a National Science Foundation Program (1999 to 2002).
 Invited participant: NEPTUNE Science Working Group; science advisory meeting to support \$100M initiative to install extensive off shore fiber optic cable/instrument node/AUV system over entire Juan de Fuca Plate. Aug/Sept, 1999
 Session chair: RIDGE 2000; meeting to determine successor to successful NSF supported RIDGE program. Newport, OR; Sept., 1999
 Session chair: DESCEND meeting; Session chair; Developing submergence science for the next decade; Washington, D.C.; Oct. 25-27, 1999
 Invited speaker: Juan de Fuca Ridge Results (RIDGE) Symposium; Seattle, WA; Nov., 1999
 Visiting scholar: Japanese RIDGEFLUX Program sponsored invited talks at Institute of Ocean Research Institute (U. of Tokyo), Kyushu University, and Geological Survey of Japan; March, 1999.
- 1998**- LExEn Workshop (invited participant); Organized and sponsored by National Science Foundation to advise NSF on future directions of Life in Extreme Environments Program, Washington, D.C.; June 17-19, 1998.
 Invited speaker; Special 10 year RIDGE Program retrospective session; AGU Fall meeting, San Francisco, Dec., 1998.
 Coordinator, chief scientist and NSF-PI for Axial Volcano 1998 Magmatic Event Response
 Invited speaker; RIDGE/VENTS Workshop on “The effect of seafloor hydrothermalism on surface ocean productivity”; Santa Cruz, May, 1998.
- 1997-1998** Guest co-Editor (with Ed Baker), Deep-Sea Research II: Special issue on “Remote Detection and rapid response to Gorda Ridge Intrusive/Eruptive Event”
 Co-Convener: Workshop on Event Detection and Rapid Response; Seattle, WA; March, 1997
 Participant, Workshop on Subsurface Biosphere; Washington, D.C.; March, 1997
 Participant, Workshop on the possibility of an Ocean (and life) on Europa; Jan.1997.
- 1996** Co-convener (with Chris Fox) AGU Special Session: Northern Gorda Ridge Intrusive/Eruptive Event: Remote Detection and Directed Rapid Response (All Union session); Fall Meeting, San Francisco, 1996.
 NSF PI and Co-coordinator (with Bob Embley, PMEL): Gorda Ridge Seismic Event Rapid Response; March-June, 1996.
 Invited Participant: Workshop on Southern-East Pacific Rise, Monterey, California; Jan. 12-14.
- 1995-present** Chair, Ad Hoc Event Rapid Response Planning Committee (RIDGE)

- 1995** Member, (RIDGE) Ad Hoc Observatory Planning Group: produced “Framework and Guidelines for the Juan de Fuca Ridge Seafloor Observatory”
 Invited Participant: Active Processes Work-Shop on Event Detection and Response and A Ridge-Crest Observatory; InterRidge; Paris, France, Jan. 16-18
- 1994-1998** Member, RIDGE Steering Committee, National Science Foundation Program
- 1993-4** Session Co-Chair, The Oceanographic Society Pacific Basin Meeting, Honolulu, HI, held July 19-22, 1994.
- 1991** Meeting Steering Committee and Working Group Co-Chair, RIDGE Planning Workshop on Observing Temporal Variability of Ridge-Crest Systems, Seattle, WA, Nov. 1991.
 Invited participant, NSF sponsored Workshop on the Sampling and Analysis of marine particles, East-West Center, Honolulu, Hawaii, Jan. 1991.
- 1990** Invited participant, NOAA VENTS Workshop on the Cleft Segment, Southern Juan de Fuca Ridge; Seattle
- 1989** Invited participant, RIDGE Workshop on Monitoring and Rapid Response, Santa Barbara
 Invited participant, RIDGE Workshop on Temporal Variability and Observatory; Pahala, Hawaii
 Invited speaker, Symposium on Aqueous Chemistry and Geochemical Cycles of Iron and Manganese (in Honor of John Hem), American Chemical Society Fall Meeting; September, 1989; Miami, Florida
- 1988** RIDGE Initiative Planning Workshop: Mapping and Sampling, Invited Participant, WHOI
 Invited participant, Program Review of VENTS Program of Pacific Marine Environmental Laboratory/NOAA; Newport, Oregon
- 1987** Participant, COSOD II Meeting, Evolution and Extinction of Oceanic Biota Working Group; Strasbourg, France

UH, SOEST, and Department of Oceanography Service

UH, SOEST, Department and Community

- 2006-Present** Chair, Division of Marine Geology and Geochemistry within Oceanography Department
 Member, Space Committee for Marine Science Building
 Member, UH Faculty Senate
 Deputy Director, UH-NASA Astrobiology Institute (NAI grant based Institute)
- 2005-2006** Chair, Department Personnel Committee
- 2005-Present** Member, Ad Hoc committee for SOEST Engineering Support Facility
- 2005-2006** Member, Selection Committee for SOEST Young Investigator
- 2005-Present** UHARI, Executive committee
- 2004-2006** Department Personnel Committee
- 2004-2005** New Faculty Search Committee (Geochem position)
- 2002-2003** UH Faculty Senate
- 2001-2004** University Research Council, member

2001-2003	Department Committee on Faculty Teaching Loads
2003	Department committee on Graduate student course requirements, member
2000-Present	Faculty mentor for students in Global Environmental Systems Program
1986-Present	Faculty Principal Investigator/Faculty Supervisor, SOEST Analytical Electron Microscope Laboratory
2002	Department of Oceanography Department Personnel Committee
2001	Co-Chair of Sea Grant Strategic Plan Working Group on Coastal and Near-Shore Resources
1997-1999	Member, UH Faculty Senate; member of Committee on Administration and Budget
1997	Departmental seminar coordinator
1994-1995	Committee to reconsider an undergraduate degree in/under Oceanography (pre-GES)
1992-1993	Department of Oceanography Personnel Committee (alternate)
1992	Geochemistry Division Curriculum Committee
1990-Present	Marine Geology and Geochemistry Division member
1990-1991	Personnel Committee, Hawaii Institute of Geophysics
1988-1990	Oceanic Biology Division Policy and Personnel Committees, Member Hawaii Institute of Geophysics Coordinator for Blood Bank Donors
1987-1995	Materials and Applied Science Group, Member
1987-1990	Marine Geochemistry Division Trace Element Clean Laboratory, Faculty Supervisor
1987-1989	HIG Biogeoscience Analytical Facility, Ad Hoc Committee, Member

Community

2002-Present	Teacher at Sea and Ship to Classroom programs
1991-Present	Class room lectures/demonstrations (Roosevelt, Punahou, Montessori Community School)
1988-Present	Numerous demonstrations each year to school groups of all ages in Electron Microscope Laboratory
1995-2003	Member, Technology Committee, Montessori Community School
1997	Host, 22 nd Annual Student Symposium on Marine Affairs
1992-1996	Board of Directors, Montessori Community School
1992-Present	Mentor Iolani Career Day; Career in Oceanography
1992	Lecturer, Oceanography, 201, Oahu Community Correctional Center
1992	Moderator, 17th Annual Student Symposium on Marine Affairs
1989-Present	Hawaiian Science and Engineering Fair, Judge
1988-1989	Director-at-Large, Marine Technology Society, Hawaii Branch
1988-2000	Consultant to U.S. Army Central Identification Laboratory of Hawaii
1987-1995	Consultant to Honolulu Police Department