

CURRICULUM VITA

John M. Sinton

Present Position:

Professor, Department of Geology and Geophysics
University of Hawai'i
Honolulu, Hawai'i 96822

Education:

A.B. Geology, University of California at Santa Barbara, June 1969
M.S. Geology, University of Oregon, Eugene, Oregon, September 1971
Ph.D. Geology, University of Otago, Dunedin, New Zealand, May 1976

Professional Expertise

Igneous petrology, Volcanology, Hawaiian geology, Marine geology; Geochemistry of volcanic materials used in Polynesian tool making; Geochemical analysis using X-ray fluorescence

Professional Appointments:

- Summer Field Geologist, Standard Oil Co. of California, 6/69-9/69
- Senior Assistant, Saskatchewan Dept. of Mineral Resources, 6/71-9/71
- Post-doctoral Fellow, Smithsonian Institution, Department of Mineral Sciences, 1/76-3/77
- Assistant Professor of Geology and Geophysics, University of Hawai'i, 5/77-6/81
- Associate Professor of Geology and Geophysics, University of Hawai'i, 7/81-6/87
- Professor of Geology and Geophysics, University of Hawai'i, 7/87-present
- Chair, Hawai'i Institute of Geophysics, Division of Volcanology, Geochemistry and Petrology, 1987-1990
- Associate Chair, University of Hawai'i Department of Geology and Geophysics, 1990-1991, 1993-1996
- Chair, University of Hawai'i, Department of Geology and Geophysics, 1996-1999.
- Division Head, Department of Geology and Geophysics, Division of Volcanology, Petrology and Geochemistry, 2002-2006

Field Experience

Geological field mapping in northern Saskatchewan, New Zealand, Hawai'i, and Iceland;
archeological field work in Hawai'i, Eiao (Marquesas), Ra'iatea, Rurutu and Easter Island

Seagoing Experience:

- 17 sea-going research cruises, 1976-2006; Chief Scientist or Co-chief Scientist on 9;
18 dives using *Makali'i*, *Alvin*, *Mir 2*, *Nautille* and *Shinkai 6500* submersibles
- Shipboard Scientist, *D/V Glomar Challenger* Leg 51, Western Atlantic, 11/76-1/77
 - Co-chief Scientist, *R/V Kana Keoki*, Cruise KK78-12, Leg 05, Galápagos Spreading Center, 1979
 - Chief Scientist: *R/V Kana Keoki*, Cruise KK80-07, Musicians Seamounts, 1980
 - Shipboard Scientist, *R/V Kana Keoki*, Cruise KK82-03, Melanesian Borderland, 1982
 - Scientific Observer, Research Submersible *Makali'i*, Dives 83-157 and 83-159, O'ahu, Hawai'i, 1983
 - Shipboard Scientist, *R/V Moana Wave*, Cruise MW85-01, Galápagos Spreading Center, 1985
 - Co-chief Scientist, *R/V Atlantis II*, Cruise 112, Leg 24; *DSRV Alvin* submersible diving, camera tows and dredging, Galápagos Spreading Center, 1985
 - Shipboard Scientist, *R/V Moana Wave*, Cruise MW85-18, Legs 17 and 18, Manus Basin, 12/85-1/86

- Chief Scientist, *R/V Moana Wave*, Cruise MW87-12, East Pacific Rise, 13°-23° S, 1987
- Invited Scientist, *R/V Akademik Mstislav Keldysh*, Cruise 21, *MIR* submersible diving, Manus Basin, 1990
- Chief Scientist, *R/V Melville*, GLORIA Leg 08, near-ridge seamounts, East Pacific Rise, 1993
- Co-chief scientist, *N/O Nadir*, the NAUDUR cruise, *Nautil* submersible diving, East Pacific Rise, 17°-19°S, 1993
- Chief Scientist, *R/V Atlantis* Cruise AT3-31, East Pacific Rise, 17°-19°S, *Alvin* submersible diving and DSL 120 surveying, 1999.
- Chief Scientist, *R/V Maurice Ewing* EW00-04, Galápagos Spreading Center, Seismic surveying and sampling, 2000.
- Scientist, *R/V Kilo Moana* KM0317, mapping and sampling off-shore Maui, Hawai'i
- Observer, *R/V Yokosuka* YK04-07, submersible dives on off-axis lava flow fields, southern East Pacific Rise, 14°S, July, 2004.
- Chief Scientist, *R/V Kilo Moana*, KM06-02, Ka'ena Ridge dredging and surveying, January, 2006

Other Professional Activities:

- JOIDES Lithosphere Advisory Panel to the Ocean Drilling Project, 1983-1987
- JOIDES Central and Eastern Pacific Advisory Panel to the Ocean Drilling Project, 1984-1986
- State of Hawai'i Geothermal Resources Technical Advisory Committee, 1984; 1991-1997
- JOI-USSAC Workshop on Seamount Scientific Drilling, 1986
- National Academy of Sciences NRC Workshop on Mid-Oceanic Ridges, 1987
- Convener, IUGG Interunion Symposium on Mid-Oceanic Ridges, IUGG General Assembly, Vancouver B.C., Canada, 1987
- RIDGE Mapping and Sampling Working Group, 1988
- International Lithosphere Program Working Group 4, Nature and Evolution of the Oceanic Lithosphere, 1988-1992
- Steering Committee for JOI-USSAC-sponsored Workshop on Drilling Lower Oceanic Crust, 1988-1989
- NSF-RIDGE Working Group on Key Variables in Crustal Accretion, 1989
- Hawai'i Center for Volcanology Steering Committee, 1992-present
- NSF-RIDGE Steering Committee, 1992-1995
- Convenor, NSF-RIDGE Workshop on Processes and fluxes on a superfast spreading ridge, Monterey, CA, January, 1996
- Invited participant, NSF Workshop, The Future of Marine Geosciences, December, 1996
- Convenor, NSF-RIDGE/NordVulc Summer School on Active Processes at Mid-Ocean Ridges, Mývatn, Iceland, August, 1997
- Member, State of Hawai'i Earthquake Advisory Board, 1998-2001
- Member, United States Science Advisory Committee (USSAC), 2000-2002
- Convenor, NSF-RIDGE/NordVulc Summer School on Plume-Ridge Interactions, Mývatn, Iceland, August, 2000

Societies:

American Geophysical Union
 Geological Society of America
 International Association of Volcanology and Chemistry of Earth's Interior

Awards and Honors

- 1991 University of Hawai'i Presidential Citation for Meritorious Teaching
- 2002 University of California at Santa Barbara, Dept. of Geological Sciences Distinguished Alumnus

- Approximately \$4 million in research grants from the National Science Foundation, NASA, Office of Naval Research, University of Hawai'i Research Council, and Bishop Museum Native Hawaiian Culture and Arts Program