

Curriculum Vitae

Floyd Warren McCoy, Jr.

Contact Information:

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Professional Affiliations

Professor of Geology and Oceanography, Dept. Natural Sciences, Univ. Hawaii - Windward (Kaneohe, HI)
Affiliate Graduate Faculty, Dept. Geology & Geophysics, Univ. Hawaii - Manoa (Honolulu, HI)
Affiliate Graduate Faculty, Certificate Program in Maritime Archaeology & History, Univ. Hawaii - Manoa
Senior Researcher, Associated Scientists at Woods Hole (Woods Hole, MA)

Education

Ph.D. (1974) Geological Sciences, Harvard Univ., Cambridge, MA [Late Quaternary History of the E. Med. Sea]
M.S. (1965) Geological Sciences, Univ. Hawaii, Honolulu, HI [Geology of Ofu and Olosega, Manu'a, Samoa]
B.S. (1962) Geology, Univ. Hawaii, Honolulu, HI
Primary and secondary education in Honoka'a, Lihue, and Hilo, Hawaii (T.H.)

Professional Memberships

Fellow, Geological Society of America	Member, Archaeological Inst. of America
Member, American Geophysical Union	Member, Am. School of Classical Studies at Athens
Member, International Assoc. of Sedimentologists	Member, British School of Archaeology in Athens
Member, Society for Sedimentary Geology	Member, Society for Hawaiian Archaeology
Member, National Assoc. of Geoscience Teachers	Member, Sigma Xi
Member, American Assoc. Advancement of Science	

Past Affiliations

Senior Research Associate, Wiener Lab., American School of Classical Studies in Athens, Athens, Greece (1999-2000)
Affiliate Scientist, Lamont-Doherty Geological (now Earth) Observatory of Columbia Univ., Palisades, NY (1986-1990)
Short-term Visiting Fellow, Smithsonian Inst., Washington, DC (1990)
Curator and Director, Core Lab., Lamont-Doherty Geological Observatory of Columbia Univ., Palisades, NY (1974-1986)
Visiting Researcher, Università degli Studi di Milano, Milano, Italy (1988-1989)
Editor, Ocean Drilling Program, Texas A&M Univ., College Station, TX (1988-1989)
Sedimentologist, Deep-Sea Drilling Program, Scripps Inst. Oceanography, La Jolla, CA (1973)
Reader, Marine Biological Lab., Woods Hole, MA (intermittent 1984-1996)
Visiting Researcher/Graduate Fellow/Assistant Scientist, Woods Hole Oceanographic Inst., Woods Hole, MA (1966-1974)
Post Doctoral Fellow, Smithsonian Inst., Washington, DC (1973-1974)
Junior Geophysicist, Hawaii Inst. Geophysics, Univ. Hawaii, Honolulu, HI (1965-1966)

Current Research Interests

Mediterranean:

- geoarchaeological and geophysical surveys on Thera and at various archaeological sites (Greece)
- volcanology and regional effects of the Late Bronze Age eruption of Thera (Greece) in the eastern Mediterranean region
- paleoclimate of the eastern Mediterranean region
- sedimentology of tsunami deposits (Greece, Italy, Turkey)
- marine geological, geophysical and archaeological surveys of the Aegean and Mediterranean sea-floor

Hawaii:

- sedimentology of tsunami deposits
- production of hyaloclastites (black sand) by active lava flow entry into the ocean
- geoarchaeological and geophysical surveys

Past Research Experience and Interests

on land:

- geophysical & geological surveys in Hawaii, Massachusetts, California, Society Is., Fiji, Samoa and Greece
- volcanology of the islands of Ta'u, Ofu and Olosega (Manu'a Group, Samoa), as well as all the Hawaiian Islands

at sea:

- numerous oceanographic cruises, as chief scientist and scientist, in the Pacific and Atlantic Oceans, and in the Mediterranean, Red, Aegean and Caribbean Seas, on ships from the U.S. (*Chain, Atlantis II, Alvin, Knorr, Vema, Eastward, Spencer F. Baird, Argo, Moana Wave, Territu*), Italy (*Bannock*), Israel (*Shikmona*), Greece (*Aegeio*)
- two cruises, Deep-Sea Drilling Project (*Glomar Challenger*), Legs 39 & 47
- two cruises, Ocean Drilling Program (*Resolution SEDCO BP 471*), Legs 107 & 125

Media Coverage

television:

National Broadcasting Company (NBC) - "Atlantis"
National Geographic – "Tsunamis and the Exodus"
Discovery – "The Seven Wonders of Ancient Greece"
National Network of Norway - "The Eruption of Thera"
British Broadcasting Corporation (BBC) - "Ancient Apocalypse"
The Learning Channel (TLC)/Archaeology Magazine - "The Lost Aegean"
British Broadcasting Corporation (BBC) – "Moses, the Exodus and the Eruption of Thera"
National Geographic; Nova; Discovery (all in production, as of summer, 2006)

magazines & newspapers:

National Geographic (December, 1982; July, 2000)
National Geographic World (October, 1983)
Athenian (November, 1989)
Archaeology (May/June, 1990)
Earthwatch (March/April, 1992)
Vogue (June, 1994)
Islands (July/August, 1994)
Technology Review (MIT) (February/March, 1994)
POB (Point of Beginning - Surveying) (September, 1996)
New York Times, Science Times (Oct., 2003)
International Herald Tribune (Oct., 2003)
Honolulu Star-Bulletin (Oct., 2003)
Ta Nea [Athens, Greece] (June, 2003)
Politika [Copenhagen] (Nov. 2003)
San Diego Union (Feb., 2006)

Lectures on Research Programs

Boston Museum of Science
National Geographic Society
Univ. of Athens [Greece]
Lehigh Univ.
Univ. of Massachusetts
Univ. Texas at Arlington
Vassar College
Wright Paterson Junior College
American School of Classical Studies at Athens [Greece]
East Crete Study Center [Greece]
Archaeological Soc. of America/Honolulu Acad. of Arts
B.P. Bishop Museum (Honolulu)
Earthwatch
Univ. of Georgia
Long Island Univ.
Univ. of Milano [Italy]
Rutgers Univ.
City College of New York
College of the Virgin Islands
Univ. of Hawaii, Manoa
Hawaii Trail and Mountain Club
Windward Community College
Kailua Historical Society
Univ. of Aarhus (Denmark)

Professional/Community Relationships/Honors (last ten years only)

- 2006 – invited speaker: Tampa Museum of Science and Technology “The Huge Bronze Age Eruption of Santorini”
- 2004-2005 – co-chair., Univ. of Hawaii, Faculty Senate
- 2003 – invited keynote speaker: American Institute of Architects; Waikaloa, Big Island; on geological and archaeological contexts of extreme environments (such as volcanism);
- 2003-present- member Managing Committee of the Am. School of Classical Studies, and Wiener Lab. Committee
- 2002 - Malcolm H. Wiener Annual Lecture at the American School of Classical Studies at Athens; on the geoarchaeology of the Late Bronze Age Eruption of Santorini
- 2001 – Archaeological Institute of America lecture series; “The Mega-Eruption of Thera (Santorini, Greece) in the Late Bronze Age and the Minoan/Mycenaean Transition”;
- 2000-present – member, Univ. of Hawaii, Faculty Senate
- 1999 – Summer Lecture Series, INSTAP Study Center for East Crete; “The LBA Eruption of Thera and Its Aegean Consequences”;
- 1998 – President, Hawaii Chapter, Sigma Xi International Scientific Honorary Society
- 1998 – present, Vice President and member, Board of Directors, Associated Scientists at Woods Hole (one of the four major research organizations here);
- 1996 – present, member, Board of Directors, Waikalualoko Fishpond Presevation Society, Kaneohe, HI.
- 1996 – Fellow, Geological Society of America

Publications

peer-reviewed publications (last six years only):

McCoy, F. W. and Maynard, S., 2002, Geoscience Partnerships for Undergraduate Students in the Pacific – The Marine Option Program at the University of Hawaii [abst.]; Geological Society of America, Programs with Abstracts, v. 34 (6): 524.

McCoy, F. W. and Dunn, S., 2002, Modelling the Climatic Effects fo the LBA Eruption of Thera: New Calculations of Tephra Volumes May Suggest a Significantly Larger Eruption than Previously Reported [abst.]; Proceedings of the Chapman Conference on Volcanism and the Earth’s Atmosphere, Am. Geophysical Union, Santorini, Greece: 21-22.

McCoy, F.W., 2001, Seafloor Sediment: Geologic Map of the Circum-Pacific Region, Pacific Basin Sheet (1:17,000,000); Circum-Pacific Map Council, U.S. Geological Survey.

McCoy, F.W., 2001, Geoarchaeology of Thera and the LBA Eruption [abst.]; Proceedings of the Archaeological Institute of America, Annual Meeting, San Diego.

McCoy, F. W. and Heiken, G., 2000, Introduction, *in*, McCoy, F. W. and Heiken, G., editors, Volcanic Hazards and Disasters in Human Antiquity, Geological Society of America, Special Paper No. 345: v-vi.

McCoy, F. W. and Heiken, G., 2000, The Late Bronze Age Explosive Eruption of Thera (Santorini), Greece: Regional and Local Effects, *in*, McCoy, F. W. and Heiken, G., editors, Volcanic Hazards and Disasters in Human Antiquity, Geological Society of America, Special Paper No. 345: 43-70.

McCoy, F. W. and Heiken, G., 2000, Tsunami Generated by the Late Bronze Age Eruption of Thera (Santorini), Greece; Pure and Applied Geophysics, v.157:1227-1256.

McCoy, F.W., Synolakis, C. and Papadopoulos, G. 2000, Tsunami Generated by the LBA Eruption of Thera – Evidence from Modelling and Sedimentary Deposits [abst.]; EOS Transactions, Am. Geophysical Union v. 81 (48): F1224.

McCoy, F.W., 1999, Seafloor Sediment: Mineral Resources Map of the Circum-Pacific Region, Northwest Quadrant (1:10,000); Circum-Pacific Map Council, U.S. Geological Survey.

summary:

- professional peer-reviewed papers = 88
- scientific articles, review, reports (non-peer reviewed) = 31
- professional scientific maps = 11
- co-editor, scientific volume of papers on "Volcanic Hazards and Disasters in Human Antiquity" (Geol. Soc. Am.)
- scientific abstracts = 85
- popular magazine articles = 6 (Archaeology, Athenian, Sail, Oceans, Natl. Geographic World, Ranger Rick)
- trade books = 6 (fiction, young adult book series with Bantam Books [US] and Granada [UK])

