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[Google Scholar Citations](#)

## RESEARCH INTERESTS

Deep-Sea Biology & Ecology, Biology of a high-CO<sub>2</sub> ocean, Climate Change & Marine Ecosystems, Biology and Ecology of Chemosynthetic Communities, Biological Oceanography, Polar Ecology

## EDUCATION

- BA, Zoology, San Jose State University, San Jose, California
- MA Biology (Marine science/wetlands biology), San Jose State University, San Jose, CA
- Ph.D. Oceanography, Scripps Institution of Oceanography, Univ. of California, La Jolla, CA

## POSITIONS

- 2007- Senior Scientist, MBARI
- 1994- Adjunct Professor, Moss Landing Marine Laboratories
- 2000-2004 Professor by Courtesy, Stanford University, Geological & Environmental Sciences
- 1996-2007 Associate Scientist, Monterey Bay Aquarium Research Institute
- 1991-1996 Assistant Scientist, Monterey Bay Aquarium Research Institute
- 1990-1991 Visiting Scientist; Moss Landing Marine Laboratories
- 1988-1990 Post-Doctoral Researcher, Scripps Institution of Oceanography (with P.K. Dayton).

## AWARDS

Ricketts Memorial Award Recipient (2008), Pew Fellowship nominee (1998), ARCS fellowship, University of California, San Diego (1986), University of California Sea Grant Trainee-ship (1982-1984), Scripps Industrial Associates Fellowship, Scripps Institution of Oceanography (1981), University of California Sea Grant Trainee-ship (1978), Antarctic Service Medal (1971)

## PROFESSIONAL ACTIVITIES

### Committee and Editorial Board Membership

- 2014- Board Ecosystem Impacts of Oil and Gas Inputs to the Gulf (ECOGIG), Science Advisory
- 2012- Scientific Advisory Council Member, Plymouth Marine Laboratories, Plymouth, U.K.
- 2012- Editorial Advisory Board, *Journal of Ocean Acidification*
- 2012- Science Advisory Committee, Chair, BIOACID 2 (German Ocean Acidification Program)
- 2012 NRC Review Committee – National Ocean Acidification Research Plan
- 2009- SOLAS/IMBER Working Group 3, Committee Member (Int. Ocean Acidification Comm.)
- 2009- Science Advisory Group Member, Chukchi Sea Offshore Monitoring Program, BOEMRE

- 2009-2012 Science Advisory Committee, Chair, BIOACID 1 (German Ocean Acidification Program)
- 2009-2010 NRC Review Committee – Developing a National Strategy for Ocean Acidification Research & Monitoring
- 2009-2010 Science Advisory Board Member, Elkhorn Slough Estuarine Research Reserve
- 2009- Science Review Committee, Monterey Bay Aquarium, Climate Change Exhibit
- 2008- Center for Ocean Solutions, Early Career Fellowship Review Committee
- 2005- MBNMS – Sanctuary Integrated Monitoring Network (SIMON), Science Committee
- 2005- Editorial Board, *Marine Ecology, an evolutionary perspective*
- 2006-2009 NOPP – Investigations of Chemosynthetic Communities on the Lower Continental Slope of the Gulf of Mexico, Science Advisory Panel
- 2003-2007 NSF, ARCUS, Shelf-Basin Interactions Program, Science Steering Committee
- 2006 Associate Editor, Marine Ecology special issue on chemosynthetic communities
- 1999-2005 Partnership for Interdisciplinary Studies on Coastal Oceans. (Packard Foundation)
- 2000-2002 DOE Center for Research on Ocean Carbon Sequestration (DOCS), member
- 1998-2000 Science Advisory Panel Chair, MMS – Stability and Change in Gulf of Mexico Chemosynthetic Communities
- 1998-1999 Science Steering Committee Member, Continental Margin Fluid Seeps of California
- 1996-1998 Scientific Advisory Committee Member, NSF, Arctic System Science (ARCSS)
- 1996-1997 Scientific Steering Committee Member, West Coast NURC
- 1995-1998 Scientific Advisory Panel Member, NSF, Coastal Ocean Processes (CoOP)
- 1993-1995 Scientific Advisory Panel Member, West Coast National Undersea Research Center
- 1994 Scientific Advisory Panel Member, NOAA, MBNMS Site Characterization

### **Outreach / Policy Activities**

- Briefing for U.S. Interagency Working Group on OA on the NRC *Review of the Federal Ocean Acidification Research and Monitoring Plan*, 2013
- Legislative briefing on ocean acidification, California State Legislature, 2011
- Testimony at US Senate Hearing on The Environmental and Economic Effects of Ocean Acidification, April, 2010
- Congressional briefings on ocean acidification / climate change, 2010
- EPOCA, Best practices for ocean acidification studies, training workshop lecturer, 2010
- Ocean Acidification, Best Practices Workshop, EPOCA, 2008
- Ocean Summit (MBARI), participant, 2008
- Congressional Briefing on Ocean Carbon Sequestration, 2007
- International Marine Biodiversity Initiative Working Group, member, 1996
- Deep Sea Biology Symposium Coordinator, 7th Int.Cong. on Invert. Reproduction, UCSC, 1995

### **Media Activities**

- Quest TV documentary story on deep-sea corals (KQED), 2012
- National Geographic documentary on extinctions on Earth, 2009
- Radio, television, press interviews on ocean acidification & climate change, 2004-present

## Review Panel Participation, Workshop and Meeting Organization

- *National Science Foundation*
  - Biological Oceanography Review Panel, panelist, 1994, 2001, 2010
  - Cabled Regional Observatories Workshop, Ecosystem Dynamics group leader, 2003
  - Inter-American Institute for Global Change Research (IAI) Proposal Review Panel, panelist, 1996
  - Descend, NSF Submersible science workshop, session leader, 1999
- *Department of Energy*
  - DOE Ocean Carbon Sequestration Workshop, October 2001, host
  - Direct Ocean Sequestration Experts Workshop, MBARI & DoE, co-organizer, 2001
  - International Carbon Sequestration Leadership Forum, U.S. Delegate, 2002, 2004
- *NOAA*
  - Ecological Monitoring in the Monterey Bay National Marine Sanctuary, workshop panelist, 2000
  - NOAA/NOS Benthic Impact Experiment (BIE), Science Review Panel, member, August 1994
- *Proposal Review*
  - Proposal Referee for NOAA, NSF, LLNL, NURP, Packard Foundation (~3-5/y)
  - Manuscript Referee for Ecology, Marine Ecology Progress Series, Deep Sea Research, Marine Biology, Limnology & Oceanography, Nature, Science, Marine Ecology, Biogeosciences.
- *Meeting Organization*
  - Workshop on Ecosystem Effects of Ocean Acidification, 2012, organizer
  - International Symposium on Oceans in a High CO<sub>2</sub> World III, local host, 2012
  - Western Society of Naturalists Meeting, local host, 1999
  - Climate change and Biodiversity workshop (WWF, MBCI), panel member, 1999
  - Deep-Sea Biology Symposium (MBARI / MBA hosted), principal organizer / host, 1997

## MBARI Service

- 1998- MBARI ROV Users Committee, chair
- 1996-1998 Benthic and Midwater Research Coordinator, MBARI

## TEACHING / STUDENT SUPERVISION

### Monterey Bay Aquarium Research Institute

#### *Post-Doctoral Fellows*

Taewon Kim (2011-2013), Josi Taylor (2010-), Craig McLain (2006-2009), Eric Pane (2005-2009), Christian Levesque (2003-2005), Jeff Drazen (2002-2005), Brad Seibel

(2001-2002 ), Heide Schultz (2001-2002 ), Shana Goffredi (1998-2000), Randall Kochevar (1994-1996), Mario Tamburri (1996-1998)

*MBARI Interns*

Kendra Hart (2013), Gayani Mudiyansele (2011), Matthew Russell (2009), Christina Tanner (2008), Robin Svensson (2005), Lisa Kamin (2003), Mary Kitazono (1999), Olga Polyakov (1997)

**Moss Landing Marine Laboratories**

Teaching

- Topics in Marine Science (guest lectures, 1993-present)
- Sampling and experimental design, Spring 1995, co-taught
- Master's Thesis Committee Member
  - Will Fennie (2013-), Thomas Knowles (2010-12), Aroon Mulwani (2005), Dan Bockus (1999), Carrie Bretz (1996), Brenda Konar (1994), Ned Lehman (1998), David Lindquist (1998), John Peters (deceased), Kevin Rhoades (1995), Rich SanFillipo (1996), Melissa Tillack (1998).
- **Hopkins Marine Station / Monterey Bay Aquarium**
  - Course Lectures (1992 – present)
  - Student project supervision (spring class, 1992-present)
  - Invited talks (deep-sea ecology, intertidal ecology, ocean carbon sequestration, ocean acidification)
  - Ph.D. committee member, Kristy Kroeker (2009-2011), Marina Oster (2011).