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Born, 26 November 1960, San Francisco, CA

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PROFESSIONAL PREPARATION

B.S. University of California, Berkeley, 1986; major- Conservation of Natural Resources

M.S. Moss Landing Marine Laboratories, CA, 1992; Marine science (Adviser: Ken Johnson)

Ph.D. University of North Carolina, Chapel Hill, 1992-1996; Marine Science (Advisor: C.H. Peterson)

Post-doc National Marine Fisheries Service, National Research Council Postdoctoral Associateship,
Beaufort, NC, 1997-1998

Post-doc University of North Carolina, Morehead City, NC, 1998-2000

APPOINTMENTS

Associate Professor with Tenure, University of California, Santa Barbara, 2006-present

Assistant Professor, University of California, Santa Barbara, 2002-2006

Fisheries Biologist, National Marine Fisheries, Northwest Fisheries Science Center, Newport, OR 2000-2001

GRANTS-CURRENT

Assessing Withering Syndrome Resistance in California Black Abalone: Implications for Conservation and Restoration. California Sea Grant (Co-P.I.). 2005-2008. \$159,843.

Community-based Collaborative Fishery Research: Assessing Fishery Impacts of CA Marine Reserves. UC Marine Council- Coastal Environmental Quality Initiative (P.I.). 2005-2007. \$385,204

How Abiotic Processes, Biotic Processes, and their Interactions Sustain Habitat Characteristics and Functions in River Channels and their Floodplains: An Investigation of How a Reach of the Merced River Responds to Restoration. CALFED (Co-P.I.). 2005-2008. \$1.4 million.

Moorea Coral Reef LTER: Long-term dynamics of coral reef ecosystem. Moorea, French Polynesia. NSF LTER Program. (Associate Investigator). 2004-2009. \$4.2 million.

PUBLICATIONS

Penin, L., M. Adjeroud, M. Schrimm, and H.S. Lenihan. 2007. High spatial variability in coral bleaching around Moorea (French Polynesia): patterns across locations and water depths. **Comptes Rendus Biologies** 330: 171-181

Lotze, H.K., H.S. Lenihan, B.J. Bourque, R. Bradbury, R. Cooke, M.C. Kay, S. Kidwell, M.X. Kirby, C.H. Peterson, and J.B.C. Jackson. 2006. Depletion, degradation, and recovery of estuaries and coastal seas. **Science** 312: 1806-1809

Griffiths, J., M.N. Dehtier, A. Newsom, J.E. Byers, J.J. Myers, F. Oyarzun, and H.S. Lenihan. 2006. Infaunal Responses to Recreational Clam Digging. **Marine Biology** 149: 1489-1497

Bishop, M.M., C.H. Peterson, H.C. Summerson, H.S. Lenihan, and J.H. Grabowski. 2006. Deposition and long-shore transport of dredge spoils to nourish beaches: impacts on benthic infauna of an ebb-tidal delta. **Journal of Coastal Research** 22: 530-546

Ruesink, J., H.S. Lenihan, A. Trimble, K. Heiman, F. Micheli, J.E. Byers, and M.C. Kay. 2005. Introduction of non-native oysters: ecosystem effects and restoration implications. **Annual Review of Ecology, Evolution, and Systematics** 36: 643-689

Sancho, G., C.R. Fisher, S., F. Mills, Micheli, G.A. Johnson, , H.S. Lenihan, C.H. Peterson, and L.S. Mullineaux, L.S. 2005. Selective predation by the zoarcid fish *Thermarces cerberus* at hydrothermal vents. **Deep Sea Research** 52: 837-844

Conlan, K.E., S.L. Kim, H.S. Lenihan, and J.S. Oliver. 2004. Benthic changes during 10 years of organic enrichment by McMurdo Station, Antarctica. **Marine Pollution Bulletin** 49: 43-60

- Lenihan, H.S. and C.H. Peterson. 2004. Conserving oyster reef habitat by switching from dredging and tonging to diver hand-harvesting. **Fishery Bulletin** 102: 298-305
- Lenihan, H.S., C.H. Peterson, S.L. Kim, K.E. Conlan, R. Fairey, C. McDonald, J.H. Grabowski, and J.S. Oliver. 2003. How variation in marine benthic community composition allows discrimination of multiple stressors. **Marine Ecology Progress Series** 206: 63-73
- Conlan, K.E., S.L. Kim, H.S. Lenihan, and J.S. Oliver. 2003. Benthic community changes at McMurdo Station, a response to sewage abatement? *In* A. H.L. Huiskes, W.W.C. Gieskes, J. Rozema, R. M. L. Schorno, S. M. van der Vies & W. J. Wolff (editors) **Antarctic biology in a global context**. Leiden, The Netherlands: Backhuys Publishers
- Micheli, F., C.H. Peterson, L.S. Mullineaux, C.R. Fisher, S.W. Mills, G. Sancho, G.A. Johnson, and H.S. Lenihan. 2002. Species interactions at deep-sea hydrothermal vents: the role of predation in structuring communities in an extreme environment. **Ecological Monographs** 73: 365-382
- Peterson, C.H., J.B.C. Jackson, M.X. Kirby, H.S. Lenihan, R. Borque, R. Bradbury, R. Cooke, and S. Kidwell. 2001. Factors in the decline of coastal ecosystems- Response. **Science** 293: 1590-1591
- Lenihan, H.S., C.H. Peterson, J.E. Byers, J.H. Grabowski, G.W. Thayer, and D.R. Colby. 2001. Cascading of habitat degradation: oyster reefs invaded by refuge fishes escaping stress. **Ecological Applications** 11: 748-764
- Jackson, J.B.C., M.X. Kirby, W.H. Berger, K.A. Bjorndal, L.W. Botsford, B.J. Bourque, R. Bradbury, R. Cooke, J.A. Estes, T.P. Hughes, S. Kidwell, C.B. Lange, H.S. Lenihan, J.M. Pandolfi, C.H. Peterson, R.S. Steneck, M.J. Tegner, and R. Warner. 2001. Historical overfishing and the collapse of marine ecosystems. **Science** 293: 629-638
- Lenihan, H.S. and F. Micheli. 2001. Soft sediment communities. *In* M. Bertness, M.E. Hay, and S.D. Gaines (editors), **Marine Community Ecology**. Sinauer Associates
- Peterson, C.H., H.C. Summerson, E. Thompson, H.S. Lenihan, J.H. Grabowski, L. Manning, F. Micheli, and G. Johnson. 2000. Synthesis of linkages between benthic and fish communities as a key to protecting essential fish habitat. **Bulletin of Marine Science** 66: 759-774.
- Lenihan, H.S., and F. Micheli. 2000. Biological effects of shellfish harvesting on oyster reefs: resolving a fishery conflict using ecological experimentation. **Fishery Bulletin** 98: 86-95
- Lenihan, H.S. 1999. Physical-biological coupling on oyster reefs: how habitat form influences individual performance. **Ecological Monographs** 69: 251-275
- Lenihan, H.S., F. Micheli, S.W. Shelton, and C.H. Peterson. 1999. How multiple environmental stresses influence parasitic infection of oysters. **Limnology and Oceanography** 44: 910-924
- Lenihan, H.S. and C.H. Peterson. 1998. How habitat degradation through fishery disturbance enhances effects of hypoxia on oyster reefs. **Ecological Applications** 8: 128-140
- Conlan, K.E., H.S. Lenihan, R.G. Kvitek, and J.S. Oliver. 1998. Iceberg scour disturbance to benthic communities in the Canadian High Arctic. **Marine Ecology Progress Series**. 160: 1-16
- Lenihan, H.S., C.H. Peterson, and J.M. Allen. 1995. Does flow also have a direct effect on growth of active suspension feeders: an experimental test with oysters. **Limnology and Oceanography** 41: 1359-1366
- Lenihan, H.S., K.A. Kiest, K.E. Conlan, P.N. Slattery, B.H. Konar, and J.S. Oliver. 1995. Patterns of survival and behavior of marine invertebrates exposed to contaminated sediments from McMurdo Station, Antarctica. **Journal of Experimental Marine Biology and Ecology** 192: 233-255
- Lenihan, H.S. and J.S. Oliver. 1995. Natural and anthropogenic disturbances to marine benthic communities in Antarctica. **Ecological Applications** 5: 311-326
- Lenihan, H.S. 1992. Benthic marine pollution around McMurdo Station, Antarctica: a summary of findings. **Marine Pollution Bulletin** 25: 318-323
- Lenihan, H.S., J.S. Oliver, J.M. Oakden, and M. Stephenson. 1990. Intense and localized benthic marine pollution around McMurdo Station, Antarctica. **Marine Pollution Bulletin** 21: 422-430
- Lenihan, H.S., J.S. Oliver, and M. Stephenson. 1990. Changes in hard-bottom communities related to boat-mooring and Tributyltin (TBT) in San Diego Bay: a natural experiment. **Marine Ecology Progress Series** 60: 147-159

WORKING PAPERS

- Powers, S.P., C.H. Peterson, J.H. Grabowski, and H.S. Lenihan. *In Revision*. The realities of native oyster restoration and why the myth of failure intensifies a conservation crisis. **Restoration Ecology**
- Lenihan, H.S., S. Mills, L. S. Mullineaux, F. Micheli, C.R. Fisher, and C.H. Peterson. *Submitted*. Biotic interactions at hydrothermal vents: density-dependent recruitment in mussels beds. **Deep Sea Research**
- Lenihan, H.S., M. Adjeroud, M. Kotchen, J. Hench, and T. Nakamura *Submitted*. How the physical structure of coral reefs regulates coral bleaching. **Marine Ecology Progress Series**
- Mullineaux, L.S. F. Micheli, C.H. Peterson, H.S. Lenihan, and N. Markus. *Submitted*. Historical effects on succession: imprint of past conditions on the structure of a deep-sea hydrothermal vent community. **Ecology Letters**.
- Halpern, B et al. *Submitted*. Assessing and mapping the cumulative global impact of human activities on marine ecosystems. **Science**.

FELLOWSHIPS AND HONORS

- Association of Pacific Rim Universities Fellow, UCSB, 2004
- US National Research Council Post-doctoral Associate, 1996-1997
- ARCS Foundation Achievement Award for College Scientist. 1991
- Research grant from the David Packard Foundation, 1991
- Dr. Earl and Ethel Meyers Oceanography and Marine Biology Trust Scholarship, 1990

PROFESSIONAL MEMBERSHIPS

- Ecological Society of America
- International Coral Reef Society
- Western Society of Naturalists
- American Society of Limnologists and Oceanographers

TEACHING EXPERIENCE

- Fisheries Management, University of California, Santa Barbara, 2001-2007
- Applied Marine Ecology, University of California, Santa Barbara, 2001-2006
- Coastal Marine Ecosystem Processes, University of California, Santa Barbara, 2003-2004
- Restoration Ecology, University of California, Santa Barbara, 2004-2007
- Ecology of Marine Reserves, University of Washington, Friday Harbor Laboratories Apprenticeship Program, Fall 2003
- Coastal Marine Toxicology, UC Toxics Field/lab course, University California, Bodega Bay Laboratories, Fall 2003-2004
- Lectured in Conservation Planning, Ecology, etc., University of California, Santa Barbara, 2003
- Ocean Ecology, University of North Carolina at Chapel Hill, Institute of Marine Sciences, 2000
- Lectured in Oceanography, University of Parma, Italy. 1999
- Lectured in Marine Ecology, University of Pisa, Italy. 1999
- Lectured in Marine Ecology, University of Ancona, Italy. 1999
- Lectured in Marine Science, University of North Carolina at Chapel Hill, NC, USA. 1997
- Lectured in Environmental Sciences, University of North Carolina at Chapel Hill, NC, USA. 1996
- Lectured in Biological Oceanography, Institute of Marine Sciences, Morehead City, NC, USA. 1995
- Lectured in Chemistry of Marine Pollution, Moss Landing Marine Laboratories, CA, USA. 1990
- Teaching Assistant in Chemistry of Marine Pollution, Moss Landing Marine Laboratories, 1990
- Teaching Assistant in Chemical Oceanography, Moss Landing Marine Laboratories, Moss Landing, CA, USA. 1988

Invited Presentations

- Bodega Marine Laboratory, UC Davis, CA, 2007
- California World Oceans Conference, Long Beach, CA. 2006
- West Coast Native Oyster Restoration Conference, San Francisco, CA. 2006
- CEA-CREST, Cal State University- Los Angeles, CA. 2006

Environmental Fluids Mechanics Laboratory, Stanford University, 2006
 Ecology and Evolutionary Biology, University of California, Santa Cruz. 2005
 Bren School Ph.D. Seminar Course, University of California, Santa Barbara, CA, 2003, 2004
 UCSB Bren School Dean's Council Breakfast Club, University Club, Santa Barbara, CA. 2003
 Bernumwood Seminar Series. Montecito, CA, 2003
 UCSB Bren School Dean's Council Meeting, University of California, Santa Barbara, CA. 2003
 Coral Reef Fish Conservation Conference, Moorea, French Polynesia, 2002
 Netherlands Journal of Sea Research 125 yr. Anniversary, Amsterdam, 2001
 Scientific Committee on Antarctic Research, Amsterdam, 2001
 Biological Sciences, University of New Hampshire, Departmental Seminar, 2001
 School of Biology, Department, Georgia Tech University, Departmental Seminar, 2001
 Ancona Marine Laboratory, Ancona, Italy. Departmental Seminar, 1999
 International Shellfish Restoration Conference, Cork, Ireland, 1999
 British Ecological Society, Sussex, England, 1999
 National Science Foundation, McMurdo Station Seminar Series, Antarctica, 1998
 Earth and Atmospheric Sciences, University of California, Santa Cruz, CA. Departmental Seminar, 1998
 Curriculum in Marine Sciences, University of North Carolina at Chapel Hill, NC. Departmental Seminar,
 1997
 Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, CA. Departmental
 Seminar, 1997
 International Shellfish Restoration Conference, Hilton Head Island, S.C., 1995 and 1998
 North Carolina Marine Fisheries Commission, Raleigh, N.C., 1993
 International Marina Conference, Kingston, R.I., 1989

SELECTED CRUISE AND EXPEDITION EXPERIENCE

Coral population and community dynamics, Moorea, French Polynesia, 2002-present
 NOAA-NMFS west coast groundfish survey, 2001.
 Participant/submariner on ATLANTIS DSV-ALVIN cruises to East Pacific Rise, 1995, 1998-1999.
 McMurdo Station, Antarctica, research diving, 1990-1992, 1997-1999.
 Resolute Bay, Canadian High Arctic, research diving, 1991-1992, 1994.
 Participant/submariner in RV SEWARD JOHNSON- JOHNSON SEA-LINK, Cape Hatteras, NC, USA.
 1992.
 Participant on Alpha Helix cruises for Sea Otter Foraging Project, Southeast AK. 1987-1991.
 Effects of the Exxon Valdez Oil spill on sea otter feeding ecology, Prince William Sound, AK. 1989.