

## LAUREN SUZANNE MULLINEAUX

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### EDUCATION:

1987 Ph.D., Oceanography, U.C. San Diego, Scripps Institution of Oceanography  
1984 M.Sc., Earth Sciences, University of California, San Diego  
1980 B.A., summa cum laude, Biology, Pomona College

### PROFESSIONAL EXPERIENCE:

2001- pres Senior Scientist, Biology Department, Woods Hole Oceanographic Institution  
1997-2002 Education Coordinator (J. Seward Johnson Chair), Biology Dept., WHOI  
1992-2001 Associate Scientist (tenured 1996), Biology Department, WHOI  
1988-1992 Assistant Scientist, Biology Department, WHOI  
1987-1988 Postdoctoral Investigator, Ocean Engineering Department, WHOI

### AWARDS, HONORS, NATIONAL AND INTERNATIONAL COMMITTEES:

2008-pres Henry L. and Grace Doherty Chair in Oceanography  
2007-2008 Executive Committee Member, NSF Ridge2000  
2006-2008 Steering Committee Member, NSF Ridge2000  
2007-2008 Chair, East Pacific Rise Oversight Committee (Ridge2000)  
2000-2006 Associate Editor, Limnology and Oceanography  
2004 Arnold B. Arons Award for Excellence in Teaching, Advising, and Mentoring  
2003 Visiting Professor, Université Pierre & Marie CURIE, Paris France  
2002-2007 Holger W. Jannasch Chair for Excellence in Oceanography  
2002-pres Member, Canada Research Chairs College of Reviewers  
2002-2003 Member, NSF Steering Committee on Cabled Observatories for Time Series  
1999-2000 Member, National Research Council Panel on Seafloor Observatories  
1999 Member, NSF Ridge2000 organizing committee  
1996-2000 Chair, InterRidge Biology Committee (International)  
1995-2000 Member, InterRidge Steering Committee (International)  
1995-2001 Member, NSF LARVE Coordinating Committee  
1993-1997 Member, NSF RIDGE Steering Committee

### CRUISE EXPERIENCE:

Chief Scientist on 11 blue-water cruises (Atlantis /DSV Alvin, Atlantis II, Kila/DSV Pices V)  
Principal Investigator or participant in a total of 32 cruises since 1979.

### RESEARCH INTERESTS:

Larval dispersal and settlement in flow; Population connectivity; Benthic community ecology; Deep-sea biology

## PUBLICATIONS, REFEREED

- 2009 Mullineaux, L.S., F. Micheli, C.H. Peterson, H.S. Lenihan, N. Markus. Historical effects on succession : imprint of past conditions on structure of a deep-sea hydrothermal vent community. *Oecologia* 161:387-400.
- 2009 Rona, P. A., A. Seilacher, C. de Vargas, A. J. Gooday, J. M. Bernhard, S. Bowser, C. Vetriani, C. O. Wirsen, L. Mullineaux, R. Sherrell, J. F. Grassle, S. Low, R. A. Lutz. *Paleodictyon nodosum*: A living fossil on the deep-sea floor. *Deep-Sea Research II* 56: 1700-1712
- 2009 Beaulieu, S.E., Mullineaux, L.S., Adams, D.K., and Mills, S.W. Comparison of a sediment trap and plankton pump for time-series sampling of larvae near deep-sea hydrothermal vents. *Limnology and Oceanography: Methods* 7:235-248
- 2009 Metaxas, A., L.S. Mullineaux and J. Sisson. Distribution of echinoderm larvae relative to the halocline of a salt wedge. *Mar. Ecol. Prog. Ser.* 377: 157-168
- 2009 Jennings, R.M., T. M. Shank, L. S. Mullineaux, and K. M. Halanych. Assessment of the Cape Cod phylogeographic break using the bamboo worm *Clymenella torquata* reveals the role of regional water masses and dispersal . *J. Heredity* 100:86-96
- 2008 Lenihan, H.S., S.W. Mills, L.S. Mullineaux, C.H. Peterson, C.R. Fisher, F. Micheli. Biotic interactions at hydrothermal vents: recruitment inhibition by the mussel *Bathymodiolus thermophilus*. *Deep-Sea Research* 155:1707-1717.
- 2008 Strasser, C.A., L. S. Mullineaux, S. R. Thorrold. Temperature and salinity effects on elemental uptake in the shells of larval and juvenile softshell clams (*Mya arenaria*). *Mar. Ecol. Prog. Ser.* 370- 155-169.
- 2008 Tyler, P.A., S. Pendlebury, S.W. Mills, L.S. Mullineaux, K.J. Eckelbarger, M. Baker and C.M. Young. Reproduction of gastropods from vents on the East Pacific Rise and the Mid-Atlantic Ridge. *J. Shellfish Res.* 27: 107–118
- 2008 Strasser, C.A., L.S. Mullineaux and B.D. Walther. Growth rate and ontogeny effects on *Mya arenaria* shell chemistry: implications for biogeochemical studies. *J. Exp. Mar. Biol. Ecol.*, 355: 153 – 163.
- 2008 Adams, D.K. and L.S. Mullineaux. Supply of gastropod larvae to hydrothermal vents reflects transport from local larval sources. *Limnology and Oceanography* 53: 1945 – 1955.
- 2007 Strasser, C.A., S.R. Thorrold, V.R. Starczak, and L.S. Mullineaux. Laser ablation ICP-MS analysis of larval shell in softshell clams (*Mya arenaria*) poses challenges for natural tag studies. *Limnology and Oceanography Methods* 5: 241-249
- 2007 Fuchs, H., M. Neubert and L.S. Mullineaux. Effects of turbulence-mediated larval behavior on larval supply and settlement in tidal currents. *Limnol Oceanogr* 52:1156-1165
- 2007 Mills, S.W., L.S. Mullineaux and P.A. Tyler. Habitat associations in gastropod species at East Pacific Rise hydrothermal vents (9°50'N). *Biological Bulletin* 212: 185-194
- 2006 Neubert, M., L.S. Mullineaux and M.F. Hill. A metapopulation approach to interpreting diversity at deep-sea hydrothermal vents. In 'Marine Metapopulations', J. Kritzer and P. Sale, eds., Elsevier Academic Press, pp. 321-350.
- 2005 Pradillon, F., M. Zbinden, L.S. Mullineaux and F. Gaill. Effects of patch dynamics on size-structure and reproductive maturity of *Alvinella pompejana* (Polychaeta: Alvinellidae) populations. *Marine Ecology Progress Series* 302:147-157

- 2005 Mullineaux, L.S., S.W. Mills, A. K. Sweetman, A.H. Beaudreau, A. Metaxas, H.L. Hunt. Spatial structure and temporal variation in larval abundance at hydrothermal vents on the East Pacific Rise. *Marine Ecology Progress Series* 293:1-16
- 2005 Sancho, G., Fisher, C.R., Mills, S. Micheli, F., Johnson, G.A., Lenihan, H.S., Peterson, C.H and Mullineaux, L.S. Selective predation by the zoarcid fish *Thermarces cerberus* at hydrothermal vents. *Deep-Sea Research* 152: 837-844
- 2004 Fuchs, H.L., L. S. Mullineaux, and A. R. Solow. Sinking behavior of gastropod larvae (*Ilyanassa obsoleta*) in turbulence. *Limnology and Oceanography* 49: 1937-1948
- 2004 Hunt, H.L., A. Metaxas, R.M. Jennings, K.Halanych and L.S. Mullineaux. Testing biological control of colonization by vestimentiferan tubeworms at deep-sea hydrothermal vents (East Pacific Rise, 9°50'N). *Deep-Sea Research* 51: 225-234
- 2003 Mullineaux, L.S., C.H. Peterson, F. Micheli and S.W. Mills. Successional mechanism varies along a gradient in hydrothermal fluid flux at deep-sea vents. *Ecological Monographs* 73: 523-542.
- 2002 Mullineaux, L.S., K.G. Speer, A.M. Thurnherr, M.E. Maltrud, A. Vangriesheim. Implications of cross-axis flow for larval dispersal along mid-ocean ridges. *Cahiers de Biologie Marine* 43: 281-284.
- 2002 Hunt, H.L., D.A. McLean and L.S. Mullineaux. Alteration of spatial settlement patterns of the soft shell clam *Mya arenaria* by post-settlement events. *Estuaries* 26: 72-81.
- 2002 Podar, M, Mullineaux, L.S., Huang, H.-R., Perlman, P.S. and Sogin, M.L. Bacterial group II introns in a deep sea hydrothermal vent environment. *Applied and Environmental Microbiology* 68:6392-6398.
- 2002 Hunt, H.L. and L.S. Mullineaux. The roles of predation and postlarval transport in recruitment of the soft shell clam *Mya arenaria*. *Limnology & Oceanography* 47:151-164.
- 2002 Micheli, F., C.H. Peterson, L.S. Mullineaux, C. Fisher, S.W. Mills, G. Sancho, G.A. Johnson and H.S. Lenihan. Predation structures communities at deep-sea hydrothermal vents. *Ecological Monographs* 72:365-382.
- 2001 Gulmann, L.K., L.S. Mullineaux and H.L. Hunt. Effects of caging on retention of postlarval soft-shelled clams (*Mya arenaria*). *Journal of Shellfish Research*. 20: 135-142.
- 2001 Marsh, A. G., L. S. Mullineaux, C. M. Young and D. T. Manahan. 2001. Larval dispersal potential of the tubeworm *Riftia pachyptila* at deep-sea hydrothermal vents. *Nature* 411: 77-80.
- 2001 Etter, R. and L.S. Mullineaux. Deep-Sea Communities. In, Bertness, M.D., S.D. Gaines and M.E. Hay, eds., *Marine Community Ecology*, p. 367-394, Sinauer Associates Inc. Sunderland, MA.
- 2000 Mullineaux, L. S., C. R. Fisher, C. H. Peterson and S. W. Schaeffer. Vestimentiferan tubeworm succession at hydrothermal vents: use of biogenic cues to reduce habitat selection error? *Oecologia* 123:275-284.
- 1999 Berntson, E. A., S. C. France and L. S. Mullineaux. Phylogenetic relationships within the Class Anthozoa (Phylum Cnidaria) based on 18S ribosomal DNA sequence information. *Molecular Phylogenetics and Evolution* 13(2): 417-433.
- 1999 Dunn, R., L. S. Mullineaux and S. W. Mills. Resuspension of postlarval soft-shell clams

- Mya arenaria* through disturbance by the mud snail *Ilyanassa obsoleta*. *Marine Ecology Progress Series* 180:223-232.
- 1998 Kim, S.L. and L.S. Mullineaux. Distribution and near-bottom transport of larvae and other plankton at hydrothermal vents. *Deep-Sea Research II* 45: 423-440.
- 1998 Mullineaux, L.S., S.W. Mills and E. Goldman. Recruitment variation during a pilot colonization study of hydrothermal vents (9°50'N, East Pacific Rise). *Deep-Sea Research II* 45:441-464.
- 1997 Mullineaux, L.S. and S.W. Mills. A test of the larval retention hypothesis in seamount-generated flows. *Deep-Sea Research* 44: 745-770.
- 1996 France, S.C., P.E. Rosel, J. E. Agenbroad, L.S. Mullineaux, T.D. Kocher. DNA sequence variation of mitochondrial large-subunit rRNA provides support for a two subclass organization of the Anthozoa (Cnidaria). *Molecular Marine Biology and Biotechnology* 5:15-28.
- 1996 Mullineaux, L.S., S. Kim, A. Pooley and R. Lutz. Identification of Archaeogastropod larvae from a hydrothermal vent community. *Marine Biology* 124: 551-560.
- 1995 Haney, J.C., L.R. Haury, L.S. Mullineaux, C.L. Fey. Seabird aggregation at a deep North Pacific seamount. *Marine Biology* 123:1-9.
- 1995 Mullineaux, L.S. and S.C. France. Dispersal of deep-sea hydrothermal vent fauna, in S.E. Humphris, R.A. Zierenberg, L.S. Mullineaux, and R.E. Thomson, eds., *Seafloor hydrothermal systems: physical, chemical, biological, and geochemical interactions*, Geophysical Monograph Series volume 91, p. 408-424.
- 1995 Mullineaux, L.S. P.H. Wiebe and E.T. Baker. Larvae of benthic invertebrates in hydrothermal vent plumes over Juan de Fuca Ridge. *Marine Biology* 122: 585-596.
- 1995 Wishner, K.F, C.J. Ashjian, C. Gelfman, M.M. Gowing, L. Kann, L.A. Levin, L.S. Mullineaux and J. Saltzman. The lower interface of the eastern tropical pacific oxygen minimum zone. *Deep-Sea Research* 42:93-115.
- 1994 Rankin, K., L.S. Mullineaux and W.R. Geyer. Transport and deposition of juvenile gem clams (*Gemma gemma*) in a headland wake. *Estuaries* 17:655-667.
- 1994 Kim, S.L., L.S. Mullineaux and K.R. Helfrich. Larval dispersal via entrainment into hydrothermal vent plumes. *Journal of Geophysical Research* 99: 12,655-12,665.
- 1994 Mullineaux, L.S. Implications of mesoscale flows for dispersal and retention of larvae in deep-sea habitats. In: C.M. Young and K.J. Eckelbarger, eds. "*Reproduction, larval biology and recruitment of the deep-sea benthos*". Columbia University Press, p. 201-222.
- 1994 Kaartvedt, S., C.L. Van Dover, L.S. Mullineaux, P.H. Wiebe and S. Bollens. Deep-sea amphipods on a hydrothermal treadmill. *Deep-Sea Research* 41: 179-195.
- 1993 Mullineaux, L. S. and E. D. Garland. Larval recruitment in response to manipulated field flows. *Marine Biology* 116:667-683.
- 1991 Mullineaux, L. S. and C. A. Butman. Initial contact, exploration, and attachment of barnacle (*Balanus amphitrite*) cyprids settling in flow. *Marine Biology* 110: 93-103.
- 1990 Wishner, K., L. Levin, M. Gowing and L. Mullineaux. Involvement of the oxygen minimum in benthic zonation of a deep seamount. *Nature* 346: 57-59.

- 1990 Mullineaux, L. S. and C. A. Butman. Recruitment of benthic invertebrates in boundary-layer flows: a deep water experiment on Cross Seamount. *Limnol. Oceanogr.* 35: 409-423.
- 1989 Noble, M. and L. S. Mullineaux. Internal tidal currents over the summit of Cross Seamount. *Deep-Sea Research* 36:1791-1802.
- 1989 Mullineaux, L. S. Vertical distributions of the epifauna on manganese nodules: implications for feeding and settlement in flow. *Limnol. Oceanogr.* 34(7): 1247-1262.
- 1988 Mullineaux, L. S. The role of initial settlement in structuring a hard-substratum community in the deep sea. *J. Exp. Mar. Biol. Ecol.* 120: 247-261.
- 1988 Mullineaux, L. S. Taxonomic notes on large, mat-like foraminifers encrusting manganese nodules, including the description of a new genus, *Chondrodapis* (Komokiacea). *J. Foram. Res.* 18: 46-53.
- 1987 Mullineaux, L. S. Organisms encrusting manganese nodules and crusts: distribution and abundance at three North Pacific sites. *Deep-Sea Res.* 34: 165-184.
- 1986 Mullineaux, L. S. and M. J. Westberg-Smith. Radiolarians as paleoceanographic indicators in the Miocene Monterey Formation, Newport Beach, California. *Micropaleontology* 32: 48-71.
- 1984 Mullineaux, L. S. and T. E. DeLaca. Distribution of Antarctic benthic foraminifers settling on the pecten *Adamusium colbeckii*. *Polar Biol.* 3: 185-189.
- 1981 Mullineaux, L. S. and G. P. Lohmann. Late Quaternary stagnations and recirculation of the eastern Mediterranean: changes in the deep water recorded by fossil benthic foraminifers. *Jour. Foram. Res.* 11: 20-39.

#### **SUBMITTED:**

McGillicuddy, D.J., J.W. Lavelle, A.M. Thurnherr, V.K. Kosnyrev, L.S. Mullineaux. Larval dispersion along an axially symmetric mid-ocean ridge. *Deep-Sea Res.*, submitted

Mullineaux, L.S., D.K. Adams, S.W. Mills, S.E. Beaulieu. Larvae from afar colonize deep-sea hydrothermal vents after a catastrophic eruption. *Ecology Letters*, submitted

Adams, D.K., S.W. Mills, T.M. Shank, L.S. Mullineaux. Expanding dispersal studies at hydrothermal vents through species identification of cryptic larval forms. *Marine Biology*, submitted

White, M.M., C.A. Strasser, L.S. Mullineaux Spatial and temporal variations in trace elemental signatures of juvenile soft-shell clams (*Mya arenaria*). *Estuarine, Coastal and Shelf Research*, submitted.

Fuchs, H. L., A. R. Solow, and L. S. Mullineaux. Larvae from different adult habitats have genus-specific responses to turbulence in a tidal channel. *Ecological Monographs* (in revision).

## BOOKS, THESES:

- 2000 Committee on Seafloor Observatories. Illuminating the hidden planet: the future of seafloor observatory science. National Academy Press, Washington, D.C. 135 pp.
- 1998 Smith, C.R., L.S. Mullineaux and L.A. Levin, eds., Deep-Sea Biodiversity: a compilation of recent advances in honor of Robert R. Hessler. Deep-Sea Research II volume 45, 567 pp.
- 1995 Humphris, S.E., R.A. Zierenberg, L.S. Mullineaux, and R.E. Thomson, eds., Seafloor hydrothermal systems: physical, chemical, biological, and geochemical interactions, Geophysical Monograph Series volume 91, 466 pp.
- 1987 Mullineaux, L. S. The epifaunal communities of manganese nodules. Ph.D. dissertation, Scripps Institution of Oceanography, 224 pp.
- 1984 Mullineaux, L. S. Radiolarians as paleoceanographic indicators in the Monterey Formation. M.Sc. dissertation, University of California, San Diego, 62 pp.

## REPORTS, ARTICLES

- 2009 Mills, S. W., S. E. Beaulieu, and L. S. Mullineaux. Photographic identification guide to larvae at hydrothermal vents. Woods Hole Oceanog. Inst. Tech. Rept. WHOI-2009-05.
- 2004 Mullineaux, L. S. and S. W. Mills. Coral gardens in the dark depths. *Oceanus* 42 (2). <http://oceanusmag.who.edu/v43n2/mullineaux.html>
- 2002 Mullineaux L. and D. Manahan. Larval biology, dispersal and gene flow at hydrothermal vents: Report from the LARVE Results Symposium. Ridge Meeting Report May 2001. 57 pp.
- 2000 Mullineaux, L. Biology Working Group Update. *InterRidge News* 9(1), p. 12.
- 1999 Mullineaux, L. Biology Working Group Update. *InterRidge News* 8(2), p. 10.
- 1999 Mullineaux, L.S., Dunn, R., S.W. Mills, H.L. Hunt and L.K. Gulmann. Biological influences on transport of postlarval soft-shell clams (*Mya arenaria*). In: Coastal Ocean Processes Symposium: a Tribute to William D. Grant, Woods Hole Oceanog. Inst. Tech. Rept. WHOI-99-04, pp. 155-162
- 1999 Mullineaux, L. and D. Manahan, Deep-Sea Diaspora: the LARVE project explores how species migrate from vent to vent. *Oceanus* 41:6-9.
- 1998 Mullineaux, L., A Tribute to Holger Jannasch, 1927-1998. *InterRidge News* 7.2 (Fall 1998).
- 1998 Mullineaux, L.S, S. K. Juniper, D. Desbruyères and M. Cannat. Steps proposed to resolve potential research conflicts at deep-sea hydrothermal vents. *EOS, Transactions of the American Geophysical Union* 79(44): 533-538.
- 1998 Mullineaux, L.S., Recent Progress on Facilitating International Exchange of Biological Samples. *InterRidge News* 7.1 (April 1998)
- 1998 Mullineaux, L.S., Desbruyères, D. and Juniper, S.K., Deep-Sea Hydrothermal Vents Reserves: A Position Paper. *InterRidge News* 7.1 (April 1998)

- 1998 Smith, C.R., L.A. Levin and L.S. Mullineaux. Deep-sea biodiversity: a tribute to Robert R. Hessler. *Deep-Sea Research II* 45: 1-11.
- 1997 Mullineaux, L.S. Update on InterRidge Biology Working Group activities. *InterRidge News* 6.1 (April 1997)
- 1996 Mullineaux, L.S. Colonization of hydrothermal vents near 9N50 East Pacific Rise: a cruise report from Block Party 1, 2 & 3. *InterRidge News* 5.2 (November 1996).
- 1992 Garland, E. D. and L. S. Mullineaux. Particle contact on flat plates in flow: a model for initial larval contact. WHOI Technical Report 92-26.
- 1991 Mullineaux, L. S., P. H. Wiebe and E. T. Baker. Hydrothermal Vent Plumes: Larval Highways in the Deep Sea? *Oceanus* 34: 64-68.
- 1988 Mullineaux, L. S., C. A. Butman and C. F. Fuller. Effects of boundary-layer flow on the settlement of organisms onto flat plates: preliminary results from Cross Seamount. In: M. P. DeLuca and I. Babb (eds.), *Global Venting, Midwater, and Benthic Ecological Processes*, National Undersea Research Program Research Report 88-4: 251-264.
- 1985 Mullineaux, L. Organisms encrusting manganese crusts. Report prepared for Manganese Crust Environmental Statement Project. Honolulu, Hawaii.
- 1984 Newhall, C. W., D. Dzurisin and L. S. Mullineaux. Historical unrest at large calderas of the world. *Proceedings of Redbook Conference*, USGS Open File Report 84-939: 714-742.

## OUTREACH ARTICLES

- 2009 LADDER to understanding dispersal at vents. *Oceanus* article on the LADDER project (in revision)
- 2009 Generations of Summer Student Fellows. *Oceanus* article on multiple generations of Summer Student Fellows, featuring Gar Secrist and Lauren Mullineaux (in preparation)
- 2009 A Diversity of Geoscientists. *Oceanus* article featuring PEP student Adrienne George (<http://www.whoi.edu/oceanus/viewArticle.do?id=58967&sectionid=1002>)

## NATIONAL AND INTERNATIONAL WORKSHOPS AND SYMPOSIA:

- 2009 4<sup>th</sup> Int'l Symposium on Chemosynthesis-Based Ecosystems, Okinawa Jun 28-Jul 3
- 2009 Deep-Sea Mining Workshop and Colloquium, Woods Hole, MA; Apr 1-3
- 2009 WHOI Ocean Ridge Initiative Workshop, Woods Hole, Feb. 25
- 2008 Marine Benthic Ecology & Biodiversity Symposium for J.F. Grassle, Nov 20-21
- 2008 COI Coastal Symposium, Woods Hole, Nov. 13
- 2008 Ridge2000 St. Com. meeting, Boston, Nov. 6-7
- 2008 Ridge 2000 MAR workshop, Portland
- 2007 InterRidge Theoretical Institute, Woods Hole Sept. 10-14, *invited speaker*
- 2006 Seamount Biogeosciences Network workshop, San Diego, 24-25 Mar; *keynote speaker and working group chair*
- 2004 ORION meeting, *Working Group Rapporteur*, San Juan Puerto Rico, 4-9 Jan
- 2003 RIDGE2000 Community meeting, *Working Group Chair*, Boulder, CO Nov 6-8
- 2002 SCOTS planning workshop, Sept.
- 2002 RIDGE2000 Implementation Plan workshop, 6-9 April
- 2002 Regional planning workshop for NOAA Ocean Exploration program, Avery Pt. CT 27 March
- 2001 International Symposium on Deep-sea Vent Biology; Brest Fr. 8-13 Oct; *organizing committee*
- 2001 LARVE Results Symposium; May 19-22; *convenor*
- 2001 Pilot Census of Marine Life: Gulf of Maine Workshop; May 9-10; *working grp Chair*
- 2001 Census of Marine Life: ChEss Workshop; Woods Hole, 16-17 March, *panel member*
- 2001 ASLO "Benthos" session, Feb. 12-16; *session chair*
- 2000 Pilot Census of Marine Life: Gulf of Maine & Georges Bank; Woods Hole, May 2-3
- 2000 Management of Hydrothermal Vent Ecosystems Workshop, 28-29 Sept; *organizer*
- 2000 Symposium on Seafloor Observatories, Islamodoro Jan 9-12; *on NAS organizing panel*
- 1999 RIDGE 2000 Meeting, 22-25 Sept; *on organizing committee*
- 1999 InterRidge Steering Committee Meeting, 25-26 June
- 1998 RIDGE 9N EPR results symposium, 24-26 Sept; *keynote biology speaker*
- 1998 InterRidge Steering Committee Meeting, 14-15 Sept
- 1997 RIDGE Steering Committee Meeting, 17-18 Oct.
- 1997 InterRidge Steering Committee Meeting, 25-26 Sept
- 1997 RIDGE Steering Committee Meeting, June
- 1996 RIDGE Steering Committee Meeting, 7-9 Oct.
- 1996 InterRidge Steering Committee Meeting 25-26 Sept.
- 1995 International Conference on Invertebrate Reproduction, 5-10 Aug.; *inv. speaker*
- 1995 InterRidge Biology Workshop, 23-25 Apr.; *invited participant*
- 1995 LARVE Experimental Design Workshop (NSF), 21-22 Apr.; *convenor*
- 1995 RIDGE Steering Committee Meeting, 20-22 Feb.
- 1994 Dispersal and Gene Flow at Hydrothermal Vents Workshop (NSF); *convenor*
- 1994 RIDGE Steering Committee Meeting, 20-24 Feb.
- 1993 RIDGE Theoretical Institute, 27 Aug. - 3 Sept.; *convenor and speaker*



- 1992 ONR Topographic Interactions Workshop, 13-14 Oct.; *invited participant*
- 1992 RIDGE Biology Workshop, 12 Oct.; *Co-chair*
- 1992 INTER-RIDGE Workshop, 11-13 Mar.; *invited as U.S. biology delegate*
- 1991 American Society of Zoologists Symposium on Deep-Sea Reproduction, 28-30 Dec.; *invited speaker*
- 1991 ONR Topographic Interactions Workshop, 20-21 Nov.; *invited participant*
- 1991 RIDGE Temporal Variability Workshop, 27 Aug. and 13-16 Nov.; *group chair*
- 1989 ONR Topographic Interactions Workshop, 16-17 Nov.; *invited participant*
- 1989 ONR Biosurfaces Workshop, 20-22 May; *invited participant*
- 1988 ONR Topographic Interactions Workshop, 10-13 April; *invited participant*
- 1988 ONR Topographic Interactions Workshop, 15-16 Nov.; *invited participant*
- 1987 ONR Biosurfaces Workshop, 18-20 Nov.; *invited participant*
- 1987 NOAA Undersea Science Symposium, 21-23 Oct.; *invited speaker*

#### INVITED TALKS:

- 2009 Deep-Sea Mining Workshop and Colloquium, Woods Hole, Apr. 1-3
- 2008 Coastal Ocean Symposium, Woods Hole, Nov. 13
- 2007 InterRidge Theoretical Institute, invited speaker, Woods Hole, Sept 10-14
- 2007 ASLO invited speaker, Santa Fe, NM, (4-9 Feb.)
- 2004 BUMP seminar, 15 Sept.
- 2003 Visiting Scholar, Universite Pierre et Marie Curie, Paris (17-19 Jun)
- 2001 Plenary talk at LARVE Results Symposium, Utah, May 20-22
- 2001 Guest lecture in Marine Biological Laboratory Geochemistry course
- 2001 University of Charleston Graduate Colloquium, visiting scholar
- 2000 Guest lecture in Scripps Institution of Oceanography Deep-Sea Biology course
- 2000 Plenary talk at Workshop on Management of Hydrothermal Vent Ecosystems
- 2000 Office of Naval Research Symposium: Oceanography the Making of a Science; March 30-31, Woods Hole, MA
- 1999 Plenary talk at RIDGE2000 meeting, Newport OR
- 1999 MIT Environmental Brown Bag Seminar, Cambridge, MA
- 1998 Scripps Institution of Oceanography, La Jolla, CA
- 1995 Pennsylvania State University, PA
- 1995 International Conference on Invertebrate Reproduction, Santa Cruz, CA
- 1995 University of New Hampshire, Durham
- 1993 RIDGE Theoretical Institute Short Course, Big Sky, MO
- 1991 American Society of Zoologists, Atlanta, GA
- 1991 University of Massachusetts, Boston
- 1990 Scripps Institution of Oceanography, La Jolla, CA
- 1989 University of Connecticut, Avery Point
- 1989 College Faculty Workshop on Oceanography, Woods Hole, MA
- 1989 Northeastern University, Boston, MA
- 1989 State University of New York, Stony Brook
- 1988 Marine Biological Laboratory, Woods Hole, MA
- 1988 University of California, Santa Barbara
- 1987 University of Rhode Island, Narragansset
- 1987 Annual Naval Officer's Reserve meeting, Woods Hole, MA

## WHOI/MIT COMMITTEES:

2009	Search committee for Chief Development Officer
2009	Mid-ocean Ridge Initiative planning workshop (DOEI)
2008-pres	MIT Faculty Environmental Network
2007-pres	Communications Advisory Committee
2006	Promotion Committee for S. Sievert
2005-2006	Gender Equity at Sea ad hoc committee
2005	JCBO Exam Committee
2005	Promotion Committee for T. Shank
2005	Chair, MIT/WHOI Joint Program Gender Equity ad hoc Committee for Research Cruise and Field Program Activities
2004	Chair, Biology Aquarium Room ad hoc committee
2004	OLI proposal review committee
2003-2004	Mentoring Pilot Program
2003-pres	DEOI Advisory Board
2001-2003	Biological Oceanography Exam Committee
2001-2003	Biology Staffing Committee
1995-pres	Deep Submergence Advisory Committee
2002	Promotion Committee for K. Halanych
2001	Promotion Committee for M. Neubert
2001	Biology Dept. Exec. Search Committee
2001, 2003	Biological Oceanography Exam Committee Chair
2000	RCRC review panel
1997-2002	Joint Committee on Biological Oceanography
1997-2002	Admissions Committee
1997-1999	Women's Committee
1996-2002	Education Council
1995-2000	Biology Curriculum Committee
1995	Review committee, Mellon Independent Study Awards
1995	Biology Visiting Scholar/Seminar speaker selection committee
1993	Benthic Ecology Search Committee (chair)
1992	WHOI Assembly
1991-1994	Summer Fellow selection committee
1990-1992	Staff Committee
1990	Selection committee for Jason Argonauts
1989-2002	Friends of Vents
1989	Review committee, Mellon Independent Study Awards
1988-pres.	Women's Staff Visiting Scholar Program

## **WHOI EDUCATIONAL ACTIVITIES:**

Instructor for graduate courses in Biological Oceanography (MIT 7.47: 1989-1994; 2001 – 2004; 2009-pres); Larval Ecology (1995), Deep-Sea Patterns & Processes (1996), Biological Interactions in Benthic Communities (1998), Benthic Organisms in Flow (2000), Marine Invertebrates of Cape Cod (2002, 2005), Communicating Ocean Sciences (2006, 2008)

Postdoctoral Advisor: Scott France (1992-1993), Anna Metaxas (1997-1999), Heather Hunt (1998-2000), Stace Beaulieu (1998-2000), Nathalie Reys (2005-2007), Irene Garcia Berdeal (2006-2007)

Graduate Advisor: Stacy Kim (PhD 1997), Ewann A. Berntson (PhD 1998), Gorka Sancho (PhD 1998), Lara K. Gulmann (PhD 2004), Heidi Fuchs (PhD 2005), Rob Jennings (PhD 2005), Diane Poehls (PhD 2007), Carly Strasser (PhD exp 2008), Meredith White (PhD exp 2012), Skylar Bayer (PhD exp 2013)

Thesis Committee Member, MIT/WHOI Joint Program: Cheri Recchia (PhD 1995), Bonnie Ripley (PhD 1998), Michael Atkins (PhD 2000), Yale Passamaneck (PhD 2003), Kelton McMahon (PhD exp. 2010), Christine Mingione (PhD exp. 2010), Li Ling Hamady (PhD exp 2013)

Thesis Committee Member, other programs: Rachel Carmichael (Boston University, PhD 2004), Mirta Teichberg (Boston University PhD 2007), Eric Crandall (Boston University PhD 2007)

Thesis Proposal Defense Chair: Brenda Jensen (1997), Rebecca Coverdale (1997), Robert Hamersley (1998), Mark Hill (1998), Jim Ruzicka (2000), Masami Fujiwara (2000), John Tolli (2000), Annette Frese (2000), Sheri Simmons (2003), Kristin Whalen (2005)

Thesis Defense Chair (since 1998): Connie Hart (1998), Sue Bello (1999), Mark Hill (2000), Robert Hamersley (2001), Sheri Simmons (2006), Benjamin Walther (2007), Petra Klepac (2007), Kristen Whalen (2008), Abigail Fusaro (2008), Kate Buckman (2009)

Undergraduate Research Advisor: John Withey (1990), Wendy Walker (1992), Kelly Rankin (1993), Shannon Smith (1994), Erica Goldman (1995), Erin Fisher (1996), Robert Dunn (1997), Sheri Simmons (1998), Archie McLean (1999-2000), Kristin France (1999), Anne Beaudreau (2000), Nilauro Markus (2000), Andrew Sweetman (2000-2001), Barbara Juncosa (2001), Shawn Arellano (2001), Yuri Yamashita (2002), Taki Michaelidis (2003), McKenzie Johnson (2004), Michael Workman (2004), Lynne Davies (2004), Alexis Jackson (2005), Nika Staglicic (2006), Skylar Bayer (2007), Gar Secrist (2009), Adrienne George (PEP, 2009)

High School Research Advisor: Samantha Hutchinson (2003), Stephanie Pommrehn (2004)

## **OTHER EDUCATIONAL AND OUTREACH ACTIVITIES:**

Thesis Committee Member: Florence Pradillon (PhD 2002 University Pierre et Marie Curie), Ruth Carmichael (PhD 2004 Boston University Marine Program), Mirta Teichberg (PhD 2007 BUMP), Eric Crandall (PhD 2008 BUMP),

Tour for NMFS Aquarium student interns (2002; 2003)

Korean TV interview on hydrothermal vents (March 2003)

Blue Planet radio interview (April 2002)

Earth and Sky radio interview (July 2002)

Mentor for 'Mission 2005- Solving complex problems' (MIT course 12.000); Fall 2002  
Presentations at Massachusetts Marine Educators workshops (2001, 2002)  
Featured scientist in NSF-sponsored web site 'Remarkable Careers in Oceanography:  
Women Exploring the Oceans' ([www.womenoceanographers.org](http://www.womenoceanographers.org))  
Science demonstrations at local schools through Woods Hole Science and Technology  
Education Partnership (1992-present)  
Science presentations to journalists and writers for WHOI 'Media Fellowship' program  
(1999-present)  
Contribution of curriculum materials to books for grades 4-8 published by Harcourt: 'Off  
to the Sea' by D. Kovacs; 'Down to a Sunless Sea' by K. Madin and 'Dive to the Deep  
Ocean' by D. Kovacs.  
Contribution of deep-sea specimens and advice to the 'Extreme Deep: Mission to the  
Abyss' museum exhibit, which tours museums nationally (1999-pres)  
Coach for Science Projects, Lawrence School (Falmouth public middle school); 1999-  
present  
Judge for Science Fairs, Falmouth Public Schools (1994-present) and Falmouth Academy  
(1999)  
Volunteer in Public Schools (Mullen Hall School; 1998-present)  
Boston Museum of Science "Science by Mail" Correspondent (1994-1996)