

CURRICULUM VITAE
RICHARD F. AMBROSE

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EDUCATION

Ph.D. 1982 University of California, Los Angeles.
B.S. 1975 University of California, Irvine.

PROFESSIONAL EXPERIENCE

2000-present Professor
Department of Environmental Health Sciences
Institute of the Environment and Sustainability (joint appointment 2008-present)
University of California, Los Angeles

1998-2011 Director
Environmental Science and Engineering Program, UCLA

1992-2000 Associate Professor
Department of Environmental Health Sciences, UCLA

1985-1997 Assistant (1985-1991) and Associate (1991-97) Research Biologist
Marine Science Institute
University of California, Santa Barbara

1983-1984 Postdoctoral Fellow
Department of Biological Sciences
Simon Fraser University
Burnaby, B.C., Canada V5A 1S6

1982 Visiting Lecturer
Department of Biology, UCLA

RESEARCH

Major Research Interests

- Restoration ecology, especially for coastal marine and estuarine environments
- Relationship between ecosystem health and human health
- Urban ecology, including ecological aspects of sustainable water management
- Coastal ecology, including ecology of coastal wetlands and estuaries
- Interface between environmental biology and resource management policy

Research Grants and Contracts, R.F. Ambrose - Principal Investigator

Marine Review Committee, Inc.	A study of mitigation	3/1/85-9/30/92 \$1,134,154
National Park Service	Investigating the cause of the catastrophic decline in black abalone populations in the Santa Barbara Channel	3/24/88-8/23/88 \$1,500
California State Lands Commission	Assistance on the California Comprehensive Offshore Resource Study	4/17/89-7/17/89 \$24,758
Minerals Management Service	An Updated Inventory of Shoreline Resources	7/1/91-12/31/95 \$304,916
California State Lands Commission	Assistance on Assessing Impacts to the Marine Environmental	1/1/92-9/30/94 \$40,000
California Coastal Commission	Mitigation Analysis and Habitat Evaluation Techniques for Coastal Development in California	6/1/92-9/30/94 \$35,000
County of Santa Barbara (through UCSB)	Inventory of Coastal Wetland Resources in Santa Barbara County	7/1/92-12/31/95 \$76,011
Las Virgenes Municipal Water District (co-PIs I.H. Suffet & S. Que Hee)	Enhanced Monitoring Program for Malibu Creek and Lagoon	3/1/93-5/31/94 \$112,686
UC Toxic Substances Research and Teaching Program - Coastal Environmental Toxicology Component	Ecotoxicology of Southern California Wetlands	7/1/93-6/30/06 \$405,000
California Coastal Commission (through Southern California Educational Initiative [SCEI])	Inventory of Coastal Ecological Resources in Ventura and Los Angeles Counties	3/1/94-10/31/98 \$318,579
California Coastal Commission (through SCEI)	Inventory of Coastal Ecological Resources of the Northern California Channel Islands	3/1/94-10/31/98 \$27,010
California Coastal Commission (through SCEI) (with J. Engle & P. Raimondi)	Inventory of Coastal Ecological Resources of the Northern California Channel Islands	3/1/94-10/31/98 \$276,206 (through UCSB)
UC Toxic Substances Research and Teaching Program	An Integrated Assessment of Three Wetlands at Mare Island Naval Shipyard: Wetland Restoration	7/1/95-6/30/03 \$47,000

Minerals Management Service - Coastal Marine Institute (with J. Engle & P. Raimondi)	Inventory of Rocky Intertidal Resources in San Luis Obispo, Santa Barbara & Orange Counties	10/1/95-9/30/97 \$197,199 (\$59,097 through UCLA)
U.S. Navy (with R. Vance)	Wetland Ecology and Restoration Planning at Mugu Lagoon	10/1/95-9/30/96 \$80,568
City of Malibu	Evaluation of Marine Protected Areas: Analysis and Management Recommendations for the Proposed Malibu Marine Refuge	6/1/96-6/16/97 \$20,869
Southern California Educational Initiative	Evaluating the Impact of Oil Spills on Southern California Rocky Intertidal Populations and Communities	7/1/96-6/30/97 \$58,108
UCLA Academic Senate	Restoring damaged coral reef habitats in the South Pacific	7/1/96-6/30/97 \$2,688
U.S. Navy (with R. Vance)	Wetland Ecology and Restoration Planning at Mugu Lagoon	10/1/96-9/30/00 \$201,000
Minerals Management Service (With J. Engle & P. Raimondi)	Interagency Rocky Intertidal Monitoring Network Workshop	12/9/96-7/14/97 \$36,942 (through UCSB)
California State Coastal Conservancy (with A. Orme and 5 co- investigators)	Lower Malibu Creek and Malibu Lagoon Resource Enhancement and Management Project	8/14/97-12/31/99 \$246,805
Minerals Management Service - SCEI	Inventory of Rocky Intertidal Resources in Santa Barbara, Ventura and Orange Counties	1/1/98-6/3/01 \$139,730
County of Santa Barbara - SCEI	Inventory of Rocky Intertidal Resources in Santa Barbara, Ventura and Orange Counties	3/6/98-3/6/01 \$21,289
U.S. Environmental Protection Agency (with M. Suffet and M. Stenstrom)	A Study of Analytical Chemical Procedures for a Southern California Watershed Monitoring and Assessment Program	11/1/98-10/31/00 \$396,500

U.S. Navy (with R. Vance)	Pilot salt marsh restoration project in the Mugu Lagoon Sewage Ponds site	8/1/99-9/30/00 \$184,000
U.S. Navy (with R. Vance)	Monitoring Wetland Restoration Sites at Mugu Lagoon	10/1/99-4/30/06 \$196,000
Minerals Management Service - SCEI	Inventory of Rocky Intertidal Resources in Southern Santa Barbara, Ventura and Los Angeles Counties	9/6/00-3/5/02 \$68,587
UC Pacific Rim Research Program	Assessment of coral reef marine protected area health and management practices in Australia and Thailand	9/1/00-8/31/01 \$35,000
U.S. Navy (with R. Vance)	Pilot salt marsh restoration project in the Mugu Lagoon Sewage Ponds site	10/1/00-9/30/01 \$202,999
Environmental Defense	A test of the spillover effect from no-take marine reserves using benthic rockfish in central California	1/1/01-6/30/01 \$15,000
Los Angeles Regional Water Quality Control Board	Environmental monitoring and bioassessment of Ventura and Los Angeles County watersheds	1/1/01-6/30/02 \$125,000
California Department of Transportation	Environmental monitoring of rocky intertidal habitats near sediment disposal sites along the Malibu coast	2/6/01-7/30/01 \$20,976
Coastal Marine Institute/UCSB (through UCSC with P. Raimondi)	Spatial and temporal variation in recruitment to rocky shores: Relationship to recovery rates of intertidal communities	7/1/01-9/30/04 \$140,877 (\$14,042 through UCLA)
U.S. Navy (with R. Vance)	Monitoring Wetland Restoration Sites at Mugu Lagoon	10/1/01-9/30/03 \$199,950
U.S. Navy (with R. Vance)	Pilot salt marsh restoration project in the Mugu Lagoon Sewage Ponds site	10/1/01-9/30/02 \$98,992

Santa Monica Bay Restoration Project	Feasibility study for the restoration of natural resources in rocky intertidal habitats in Santa Monica Bay	4/1/02-9/30/03 \$88,421
Minerals Management Service (subcontract through UCSC)	Determining Long-Term Changes in Species Abundances and Community Structure in Southern California Rocky Intertidal Habitats	5/1/02-4/30/05 \$427,926
University of California Center for Water Resources (with P. Rundel)	Influence of nutrient loading in the invasion of an alien plant species, Giant Reed (<i>Arundo donax</i>), in Southern California Riparian Ecosystems	7/1/02-12/31/04 \$66,000
U.S. Navy (with R. Vance)	Pilot salt marsh restoration project in the Mugu Lagoon Sewage Ponds site	10/1/02-9/30/03 \$172,680
Los Angeles Regional Water Quality Control Board	Success of wetland mitigation sites in Los Angeles and Ventura Counties, California	4/1/03-4/30/05 \$93,999
U.S. Navy (with R. Vance)	Monitoring Wetland Restoration Sites at Mugu Lagoon	10/1/03-6/30/06 \$225,027
U.S. Navy (with R. Vance) (through CKY Incorporated)	Mugu Sewage Ponds restoration project	10/1/03-9/30/04 \$98,500
Southern California Coastal Water Research Project	Assessment of water quality loadings from natural landscapes	1/1/04-3/15/06 \$178,942
Dept. of Interior U.S. Fish and Wildlife Service	UCLA riparian restoration research and Santa Clara River riparian revegetation handbook	5/1/04-11/1/09 \$24,734
California State Water Resources Control Board	Success of compensatory wetland mitigation required under Section 401 of the Clean Water Act in California	6/1/04-3/31/06 \$500,000

California Department of Fish and Game, Office of Spill Prevention and Response	Development of a response protocol to spills that can be formalized into "Coastal Habitats Quick-Response Procedures Kits" for sandy, rocky and wetland shoreline habitats	10/1/05-9/30/07 \$59,104
California State Water Resources Control Board	Review of Compensatory Mitigation Compliance Monitoring Study	6/1/05-12/31/06 \$16,691
U.S. Minerals Management Service (subcontract through UCSC)	Determining Long-Term Changes in Species Abundances and Community Structure in Southern California Rocky Intertidal Habitats	5/1/07-4/30/10 \$262,585
California State Coastal Conservancy	Development of Field Sampling Protocols for the Integrated Wetlands Regional Assessment Program (IWRAP)	7/1/07-6/30/08 \$44,600
U.S. Minerals Management Service	Field testing of Pre-Spill biological assessment protocols for rocky intertidal, wetland and sandy beach habitats	9/24/07-9/21/08 \$5,177
Southern California Coastal Water Research Project	Habitat mix and distribution framework for restoration of coastal wetlands of southern California	1/8/08-9/30/08 \$30,802
U.S. Minerals Management Service	2008 MARINe Taxonomic Workshop planning	9/23/08-10/12/08 \$3,335
California Department of Water Resources (Subcontract through the Southern California Coastal Water Resources Project)	Effect of Global Climate Change on the Extent and Distribution of Southern California's Coastal Wetlands	7/1/09-3/31/10 \$30,000
California Sea Grant Program	Carbon Storage in Southern California's Natural and Restored Coastal Wetlands	4/1/10-3/1/11 \$9,999
UC San Diego	Advisory Panel on the Evaluation of Artificial Salt Marshes of the Venice Lagoon	4/1/10-6/30/11 \$6,600

Southern California Coastal Water Research Project	Biological Effects of Direct Hydromodification on Stream Conditions and Beneficial Uses: Lessons for Stream Restoration	5/1/10-2/28/11 \$45,380
Bureau of Ocean Energy Management (subcontract through UCSC)	Determining Long-Term Changes in Species Abundances and Community Structure in Southern California Rocky Intertidal Habitats	5/1/10-4/30/15 \$472,130
Southern California Coastal Water Research Project	Developing the technical basis for California's Status & Trends Assessment of Wetland Extent	1/1/11-6/30/12 \$105,983
Marisla Foundation (with G. MacDonald)	Best Practices for Restoration and Management of Coastal Wetlands	10/8/12-6/30/15 \$60,000
Bureau of Ocean Energy Management (through UC Santa Cruz)	Determining Long-Term Changes in Species Abundances and Community Structure in Southern California Rocky Intertidal Habitats	5/1/15-4/30/20 \$519,966
California State Coastal Conservancy (through Southwest Interpretive Association)	Assessing the effects of sediment augmentation on the marsh plain and tidal creeks at the Seal Beach wetland	7/1/15-6/30/21 \$323,944

Co-Investigator:

U.S. Environmental Protection Agency R. Turco (PI), with 19 co-investigators	Integrated Urban Watershed Analysis: The Los Angeles Basin and Coastal Environment	1/1/97-12/31/99 \$1,200,000 (\$75,000 for Ambrose)
U.S. Environmental Protection Agency Dick Berk (PI), with Jan DeLeeuw, Robert Gould, and Rich Turco	Using Multilevel Statistical Models to Address Representativeness and Data at Different Spatial and Temporal Scales	7/1/98-6/30/00 \$415,381
UC Marine Council S. Grant (PI, UCI), with B. Sanders, L. Levin, and C. Winant	Coastal Water Quality: The Role of Wetlands in Mitigating the Effects of Urban and Rural Runoff	7/1/02-6/30/06 \$611,146 (\$119,937 for Ambrose)

National Science Foundation W. Kaiser (PI), with co- investigators	Information Technology Research (ITR): Networked Infomechanical Systems (NIMS)	10/1/03-9/30/08 \$7,499,303
Sweetwater Reservoir Organization I.H. Suffet (PI), with M. Stenstrom	Development of Best Management Practices for Sweetwater Reservoir	11/2/03-12/31/04 \$400,000
UC Marine Council Sharon Walker (co-PI, UCR), Jenny Jay (co-PI), Trish Holden (UCSB)	Fate, persistence and source identification of pathogens, pathogen indicator bacteria and human specific markers in coastal beach and wetland sediments of southern California	7/1/08-6/30/09 \$250,000 (\$67,859 for Ambrose)
Southwest Climate Science Center Co-PIs J. Takekawa (USGS) and Glen MacDonald (UCLA) with 10 co-investigators	Downscaling climate change models to local site conditions: effects of sea-level rise and extreme events to California coastal habitats	7/1/12-6/30/14 \$449,914 (\$202,509 through UCLA)
National Science Foundation S. Grant (UCI - PI) with 22 co- investigators	Low energy options for making water from wastewater	9/15/12-9/14/17 \$4,841,760 (\$455,997 through UCLA)
Southwest Climate Science Center Co-PIs J. Takekawa (USGS) and Glen MacDonald (UCLA) with 8 co-investigators	A Coastal Site Network for Advancing Understanding and Prediction of Climate Change Effects on Nearshore Ecosystems: Integrating Interdisciplinary Process Studies	9/22/14-9/21/16 \$218,350 (\$102,533 through UCLA)
National Oceanic and Atmospheric Administration J. McWilliams with 9 co- investigators	Integrated Modeling of Ocean Acidification and Hypoxia to Support Ecosystem Prediction and Environmental Management in the California Current System	9/01/15 – 8/31/18 \$403,215

Scientific Expeditions and Research Locales

- Research along California coast, including Channel Islands (Anacapa Island, Santa Barbara Island, Santa Catalina Island, Santa Cruz Island, San Miguel Island, San Nicolas Island).
- U.C. Berkeley Gump Marine Laboratory, Moorea, French Polynesia, 1996.
- Heron Island Research Station, Great Barrier Reef, Australia, 2001.
- West Indies Laboratory, St. Croix, U.S. Virgin Islands, 1981. (Including a week-long mission in the undersea laboratory HYDROLAB.)

- Laboratoire Arago, Banyuls-sur-Mer, France, on the Mediterranean, 1980.
- Scripps Institute of Oceanography Expedition, Baja California, 1977. (Co-Organizer)
- Other field experience: Baja California, British Columbia, Alaska, Hawaii, Australia, Venice Lagoon.

HONORS

Outstanding Civilian Service Medal, Department of the Army, 2013
Commendation from California Senate for service to Santa Monica Bay Restoration Commission, 2011
Delta Omega Society, 1994

TEACHING

Courses Taught

University of California, Santa Barbara. Environmental Studies Program.

Coastal Processes and Management (Environmental Studies 134) - 1991

University of California, Los Angeles. Biology Department.

Oceans (Biology 25) - 1977

Ecology and Evolution (Biology 6) - 1982

Introductory Biology (Biology 5) - 1982

University of California, Los Angeles. Department of Environmental Health Sciences, School of Public Health.

Applied Ecology (Environmental Health Sciences 212) - 1993-2015 (except 2012)

Environmental Science and Engineering Problems Course (Environmental Science and Engineering 400 A, 400B, 400C) - 1993-2015 (except 2011, 2012)

Environmental Science and Engineering Problems Course Workshop (Environmental Science and Engineering 410 A) - 2011

Environmental Science and Engineering Problems Course Workshop (Environmental Science and Engineering 410 B) - 1995-97, 2011, 2014-15

Graduate Seminar in Ecotoxicology (Environmental Health Sciences 203) with M. Collins - 1995-2006, 2010, 2012, 2014

Graduate Seminar in Applied Coastal Ecology (Environmental Health Sciences 206) – 2000-2004, 2013-15

Fundamentals of Environmental Health Sciences (Environmental Health Sciences 200B) – 1999-2011 (co-organizer 2008-10, organizer 2011)

Case Studies in Environmental Health Sciences (Environmental Health Sciences 200C) – 2013

Foundations of Environmental Health Sciences (Environmental Health Sciences 200A) – 2014 (organizer 2014)

Independent research for undergraduates (Environmental Health Sciences 199, Environment 99, Environment 199) – many quarters

University of California. Multicampus course.

Experimental Approaches to Problems in Coastal Toxicology (UC Davis PTX 230) – Summer 1999-2005

University Guest Lecturer

Ecology and Evolutionary Biology
University of California, Los Angeles, 1982

Ecology
Simon Fraser University, 1983

Advanced Topics in Marine Ecology
University of California, Riverside, 1984

Conservation Biology
University of California, Los Angeles, 1988-1992, 1995-2006

Ecology of Marine Communities
University of California, Los Angeles, 1993

Introduction to Marine Science
University of California, Los Angeles, 1994-95, 1997

Biodiversity and Extinction
University of California, Los Angeles, 1994

People and the Earth's Ecosystems
University of California, Los Angeles, 1996

Introduction to Environmental Health Sciences
University of California, Los Angeles, 1998-99, 2002

Global Environment
University of California, Los Angeles, 1998-2010

Restoration Ecology
University of California, Los Angeles, 1999

Wetlands Ecology and Conservation
Scripps Institution of Oceanography, 1999, 2003

Understanding the Seas: Recent Advances in Marine Science
University of California, Los Angeles (Extension), 2002-3

Environmental Engineering Education
University of California, Los Angeles, 2005

Leaders in Sustainability (Env 277)
University of California, Los Angeles, 2005, 2010-11, 2014-15

Environmental Science Colloquium
University of California, Los Angeles, 2010-11

Ocean and Coastal Law and Policy (Law 615)
University of California, Los Angeles, 2014

Undergraduate PIRE Program (UPP Down Under)
University of California, Irvine, 2014, 2015

University Seminar Speaker

"Population biology and behavioral ecology of *Octopus bimaculatus*"
Catalina Marine Science Center, Catalina, CA, 1977

"Interactions between predator and prey"
University of California, Los Angeles, 1983

"Predation by Octopuses"
Simon Fraser University, 1984

"Population Biology of *Octopus bimaculatus* at Santa Catalina Island"
University of Southern California, 1989

"Science and the Art of Mitigation: Mitigating the Marine Impacts of the San Onofre Nuclear Generating Station"
University of California, Los Angeles, 1991

"Evaluating the Alternatives for Mitigating the Impacts of the San Onofre Nuclear Generating Station"
University of California, Santa Barbara, 1992

"The San Onofre Nuclear Generating Station: Marine Impacts and Mitigation"
University of California, Los Angeles, 1994

"Predicting Environmental Impacts: Lessons from a Power Plant Environmental Impact Analysis"
University of California, Los Angeles, 1995

"The Barrens Facts: Ecology of a Southern California Urchin Barrens"
University of California, Los Angeles, 1995

"Spatial Variability in Southern California Salt Marshes: Implications for Assessing the Success of Mitigation"
San Diego State University, 1997.

"Wetland Mitigation in the United States: The Good, the Bad, and the Ugly"
RMIT University, 1998.

"Restoring southern California's salt marshes: What do we use for a model?"
Smithsonian Environmental Research Center, 2000.

“Restoring contaminated habitats: field experiments using sewage sludge in a southern California salt marsh”
University of California, Davis, 2002.

“If you build it, will they come? Testing the Field of Dreams Hypothesis in restored wetlands.”
Scripps Institution of Oceanography, 2003.

“Protecting wetland resources under the Clean Water Act: How is California doing?”
University of California, Los Angeles, Institute of the Environment Environmental Colloquium, 2006.

“Mitigating climate change by sequestering carbon in wetlands: scientific and policy issues.”
University of California, Los Angeles. Luskin seminar, Institute of the Environment and Sustainability. 2013.

“Mitigating climate change by sequestering carbon in wetlands: scientific and policy issues.”
University of California, Los Angeles. Department of Environmental Health Sciences. 2014.

Doctoral Committees - Ph. D. Degree

Chair

Graduates

- Michelle Anghera, 2004. “Detecting Contaminant Impacts to the Benthic Community in a Coastal Wetland.” (current employer: QEA Anchor Environmental)
- Perla Atiyah, 2009 (Acting as chair for Linwood Pendleton). “Non-Market Valuation and Marine Management: Using Panel Data Analysis to Measure Policy Impacts on Coastal Resources.” (current position: Assistant Professor, Zayed University, Abu Dhabi)
- Gretchen Coffman, 2007. “Factors influencing invasion of Giant Reed (*Arundo donax*) in riparian ecosystems of Mediterranean-type climates.” (current position: Assistant Professor, University of San Francisco)
- Donna Ferguson (co-chair with J. Jay), 2014. “Genetic Characterization of *Enterococcus* in California Coastal Environments.” (current position: independent consultant)
- Robert Gilbert, 2009. “A multi-method approach for the characterization of urban stream quality and algal dynamics.” (current employer: UCLA)
- W. Mark Hanna, 2003 (Civil and Environmental Engineering, co-chair with J. Dracup). “Real-time Adaptive Wetland Water Quality Management.” (current employer: Geosyntec)
- Travis Longcore, 1999 (Geography, co-chair with M. Savage). “Terrestrial Arthropods as Indicators of Restoration Success in Coastal Sage Scrub.” (current position: Assistant Professor of Architecture and Spatial Sciences, University of Southern California)
- Irene Tetreault Miranda, 2006. “The effects of marine reserves on fish inhabiting temperate rocky reefs.” (current position: independent consultant)
- Jayson Smith, 2005 (Ecology and Evolutionary Biology [EEB], co-chair with P. Fong). “Factors Affecting Geographic Patterns and Long-Term Change of Mussel Abundances (*Mytilus californianus* Conrad) and Bed-Associated Community Composition along the California Coast.” (current position: Assistant Professor, California State Polytechnic University, Pomona)

Demian Willette, 2010. "The description of Caribbean seagrass communities in Dominica, West Indies and their response to anthropogenic and natural disturbances." (current position: Adjunct Professor, Loyola Marymount University)

Member

Current Students

Savanna Carson (EHS)
Li-Cheng Chan (Civil and Environmental Engineering)
Min-Mo Chung (Civil and Environmental Engineering)
Olivia Ellis (EHS)
Simon Ha (Civil and Environmental Engineering)
Tisha Holmes (Urban Planning)
Sunhyung (Sunny) Kim (Civil and Environmental Engineering)
Chu-Ching Lin (Civil and Environmental Engineering)
Bryan Moy (EHS)
Rita Rachmawati (EEB)
Kathleen Shaver (EHS)
Brenton Spies (EEB)
Lori Viernes (EHS)

Graduates

Samantha Abraham, 2014 (EHS)
Aaron Allen, 1999 (Geography)
Sean Anderson, 2003 (Organismic Biology, Ecology and Evolution [OBEE])
Anna Armitage, 2003 (OBEE)
Kathy Boyer, 2002 (OBEE)
Karleen Boyle, 2002 (OBEE)
Tracey Brown, 1999 (OBEE)
Sarah Bryson, 2012 (EEB)
Wei Chen, 2004 (EHS)
Michael Chotkowski, 1994 (Biology)
Rachel Clausing, 2014 (EEB)
Risa Cohen, 2003 (OBEE)
Cathy Crouch, 2002 (OBEE)
Suzanne Dallman, 2001 (Geography)
Paul Di Giacomo, 1999 (OBEE)
Lauri Green, 2010 (EEB)
Tonya Kane, 2012 (EEB)
Krista Kamer, 2000 (OBEE)
Joohyon Kang, 2005 (Civil and Environmental Engineering)
Rachel Kennison, 2008 (EEB)
John Lambrinos, 2000 (OBEE)
Raul Lejano, 1998 (EHS)
Shao-Yuan (Ben) Leu, 2009 (Civil and Environmental Engineering)
Jeong-Hee Lim, 2005 (Civil and Environmental Engineering)
Michael (Chen-Hung) Lin, 2001 (EHS)
Sonya Lopez, 2012 (Civil and Environmental Engineering)
Kristina D. Louie, 2003 (OBEE)
John Malone, 2002 (OBEE)
Laura Martin, 1999 (OBEE)
Sarah May, 2003 (OBEE)
Katie Mika, 2012 (Civil and Environmental Engineering)

Kartiki Naik, 2014 (Civil and Environmental Engineering)
Jim Noble, 1996 (EHS)
Daniel Pondella, 2001 (OBEE)
Alex Reich, 2000 (OBEE)
Ken Schwarz, 1999 (Geography)
Linda Schweitzer, 1998 (EHS)
Amarjeet Singh, 2009 (Electrical Engineering)
Lei Lani Stelle, 2001 (OBEE)
Mary A. Soliman, 2002 (EHS)
Vanessa Thulsiraj, 2013 (CEE)
Matt Wartian, 2006 (EEB)
Karina Wiesenthal, 2006 (EHS)
Louis Zeidberg, 2003 (OBEE)
James Zoulas, 2007 (Geography)

Doctoral Committees - D.Env. Degree

Chair

Current Students

Jennifer Aleman-Zometa
Todd Bear (current employer: Ecokai)
Steven Estes (current employer: U.S. Army Corps of Engineers)
Cori Farrar (current employer: U.S. Army Corps of Engineers)
Stacie Fejtek (current employer: National Marine Fisheries Service)
Shannon Pankratz (current employer: U.S. Army Corps of Engineers)
Setal Prabhu (current employer: Southern California Edison)
Jordan Rosencranz (current employer: U.S. Geological Survey/UCLA)
Yareli Sanchez
Glenn Sias (co-chair with Deepak Rajagopal, IoES)(current employer: Southern California Edison)
Tiffany Yap (current employer: AECOM)

Graduates

Matthew Buffleben (co-chair with Stan Trimble, Geography), 2009. "Assessment of Soil Creep for Total Maximum Daily Load Development in a Northern Coastal California Watershed." (current employer: North Coast Regional Water Quality Control Board)
Joshua Burnam (co-chair with Tony Orme, Geography), 2004. "Impacts of Low Water Crossings on Aquatic Resources under the U.S. Army Corps of Engineers Nationwide Permit Program." (current employer: QEA Anchor Environmental)
Valerie Chan, 2014. "Examining Management Issues for Incidentally Caught Species in Highly Migratory Species Fisheries in the Western and Central Pacific Ocean." (current employer: National Marine Fisheries Service)
Jae Chung, 2006. "Cumulative Impacts to Riparian Wetlands in the Aliso Creek and San Juan Creek Watersheds." (current employer: U.S. Army Corps of Engineers)
Melissa Evanson, 2009. "Chinook Salmon Population Dynamics and Life History Strategies in the Squamish River Watershed, BC, Canada." (current employer: Department of Fisheries and Oceans Canada)
Felicia Federico, 2009. "Managing Hydromodification Impacts due to Urbanization through Regulation of New Development and Re-Development in Southern California." (current employer: UCLA)

- Lisa Fong, 2015. "Assessment of Practices and Tool Development to Improve Compensatory Mitigation in Southern California." (current appointment: Presidential Management Fellow)
- Alice Kwan, 1996. "Evaluation of a Decision Making Method Utilizing Spatial, Stakeholder, and Multi-Attribute Analyses: Application to a Conflict between Habitat Preservation and Development." (current employer: Hong Kong Airport Authority)
- Leila Lackey, 2012. "Design of an Aquatic Resource Status and Trends Monitoring Program for California." (current employer: Food and Drug Administration)
- Erik Larsen, 2006. "Regulation, Characterization, and Assessment of Riparian Habitat in Federal and State Jurisdiction, Orange County, CA." (current employer: P & D Consultants)
- Jonathan Lilien, 2001. "Cumulative Impacts to Riparian Habitat in the Malibu Creek Watershed." (current employer: Chevron)
- Cindy Lin, 2002. "Effects of Landscape Modification on Stream Ecology and Structure in a Mixed-Use Watershed in Mediterranean Southern California." (current employer: U.S. Environmental Protection Agency)
- Shelley Luce, 2003. "Urbanization and Aquatic Ecosystem Health in Malibu Creek, California: Impacts on Periphyton, Benthic Macroinvertebrates, and Environmental Policy." (current employer: Environment Now)
- Spencer MacNeil, 2001. "Hydrogeomorphic Assessment of Aliso Creek Watershed Streams: Developing a Foundation for Holistic Permitting and Management." (current employer: U.S. Army Corps of Engineers)
- Douglas Meffert, 1996. "The Effectiveness of the Coastal Wetlands Planning, Protection and Restoration Act in Achieving Louisiana's Coastal Restoration Objectives." (current employer: National Audubon Society)
- Whitman Miller, 2000. "Assessing the Importance of Biological Attributes for Invasion Success: Eastern Oyster (*Crassostrea virginica*) Introductions and Associated Molluscan Invasions of Pacific and Atlantic Coastal Systems." (current employer: Smithsonian Environmental Research Center)
- Monique Myers, 2003. "Coral Reef Monitoring for Management Purposes and the Effect of Marine Protected Areas on Benthic Communities on the Great Barrier Reef." (current employer: University of California Sea Grant and Cooperative Extension)
- Chad Nelsen, 2012 (Acting as chair for Linwood Pendleton). "Collecting and Using Economic Information to Guide the Management of Coastal Recreational Resources in California." (current employer: Surfrider Foundation)
- Petra Pless, 2001. "Technical and Environmental Assessment of Thermal Insulation Materials from Bast Fiber Crops." (current employer: Pless Environmental, Inc.)
- Chuck Rairdan, 1998. "Regional Restoration Goals for Wetland Resources in the Greater Los Angeles Drainage Area: A Landscape-Level Comparison of Recent Historic and Current Conditions Using Geographic Information Systems." (current employer: U.S. Army Corps of Engineers)
- Sarah Rothenberg (co-chair with Jenny Jay, Civil and Environmental Engineering), 2007. "Mercury Cycling in a Coastal Estuary: Implications for Maximum Total Daily Loads." (current employer: University of South Carolina)
- Ben Schwegler, 1999. "Engineering Ecosystems: an Ecosystem Function, Ecosystem Service Model for the Analysis of Private Sector Development Opportunities." (current employer: Walt Disney Imagineering)
- Arent (Barry) Schuyler, 1996. "The Risks of Marine Traffic and Oil Operations in the Santa Barbara Channel and the Santa Maria Basin." (retired)
- Craig Shuman, 2003. "The Marine Aquarium Trade in the Phillippines: Balancing Ecological Impacts with Livelihood Opportunities." (current employer: California Fish and Game Commission)

- Eric Stein, 1995. "Assessment of the Cumulative Impacts of Section 404 Clean Water Act Permitting on the Ecology of the Santa Margarita, Ca. Watershed." (current employer: Southern California Coastal Water Research Project)
- Mark Sudol, 1996. "Success of Riparian Mitigation as Compensation for Impacts due to Permits Issued through Section 404 of the Clean Water Act in Orange County, California." (current employer: U.S. Army Corps of Engineers)
- Dan Swenson, 2005. "Habitat Loss, Cumulative Impacts, and the Clean Water Act Section 404 Program: A Spatial Analysis." (current employer: U.S. Army Corps of Engineers)
- Forrest Vanderbilt, 2013. "Protecting and Restoring our Nation's Waters: The Effects of Science, Law, and Policy on Clean Water Act Jurisdiction with a focus on the Arid West." (current employer: U.S. Army Corps of Engineers)
- Matthew Vandersande (co-chair with L. Pendleton, ESE), 2006. "Regulation of non-wetland riparian areas in the arid and semi-arid southwest: Section 404 of the Clean Water Act, bank stabilization, and a policy recommendation." (current employer: National Marine Fisheries Service)
- Vada Yoon (co-chair with M. Stenstrom, CEE), 2006. "Quantification of Metals, Nutrients, and Solids from Natural Areas During Wet and Dry Weather in Southern California." (current employer: QEA Anchor Environmental)

Member

Current Students

Jane Curren
Suzan Given
Erica (Halchak) Alvarado

Graduates

Cara Augustenborg, 2007
Gnachi Amah, 2004
Laura Bloch, 1996
Maria Echarte, 2006
Chris Gabelich, 2001
Fred Gerringer, 2009
Betty Grizzle, 1993
John Karlik, 1998
Adrienne Katner, 2011
Calvin Kwan, 2011
Chad Lewis, 2005
Tim McPherson, 2001
Heesu Park, 2006
Joel Pedersen, 2001
Danny Qin, 2006
Fernando Rosario, 2006
Farinaz Tabatabai, 1994
Mitzy Taggart, 2002
Keith Thomsen, 2010
Matt Yeager, 2007

Master's Students - M.S. and M.P.H. Degrees

Chair

Current Students

Therese Chen
Wendy Greene
Jimmy Phong
Jasmine Roashan
Clifford Shum
Nicholas Thibeault

Graduates (with title of M.S. thesis if applicable)

Shanti Abichandani Santuli, 2007. "The Potential Impact of the Invasive Species *Arundo donax* on Water Resources along the Santa Clara River: Seasonal and Diurnal Transpiration."

Janel Marie Augello, 2008. "Development of a Bioassay to Detect Variations in Freshwater Nutrient Conditions."

Tamira Cohen, 1995. "Trace metals in three California coastal wetland regions: Mugu Lagoon, Malibu Lagoon and Ballona Wetlands."

Lesley Dobalian, 1999. "Can wetland restoration meet compensatory mitigation goals of overall no net loss?"

Kate Elgin, 2012. "Soil Organic Matter of Natural and Restored Coastal Wetland Soils in Southern California"

John Howe, 2001.

Laurie Ikuta, 2002. "Do fences protect birds from human disturbance?"

Sharon Landau, 1996.

Lena Maun, 2002. "Marine Reserves: Effective answers to the coral reef crisis or only part of the solution in the Caribbean Region?"

Melissa McMeechan, 2009. "Remote Sensing Evaluation of Compensatory Wetland Mitigation Regulated under the Clean Water Act in California, USA"

Whitman Miller (co-chair with Dr. R.R. Vance, Biology), 1994

Shannon Pankratz, 2003. "Effects of Mycorrhizal Infection and Salinity Stress on the Growth Performance of Three Salt Marsh Plant Species (*Frankenia grandifolia*, *Jaumea carnosa* and *Salicornia virginica*)."

Jackie Prange, 2009.

John Prokup, 2010.

Jordan Rosencranz, 2012. "Accretion, Sediment Deposition and Suspended Sediment Dynamics in Mugu Lagoon, a Southern California Coastal Estuary."

Glenn Sias, 2007. "A Comparison of Soil Salinity between Areas Dominated by Native Vegetation and Non-native Vegetation in a Tidal Wetland."

Brendan Sullivan, 2012.

Brianna Tarnower, 2012. "Quantification of *Leptospira* in Artificial Microcosms Mimicking Fresh and Brackish Waters Using Propidium Monoazide and qPCR (PMA-qPCR)."

Tessa Verhoef, 2015.

Noelle Watanabe, 2015.

Tiffany Yap, 2009.

Terry Young, 2005. "An assessment of tiger beetle populations at Mugu Lagoon, Ventura, California in 2003-04 compared to 1982 populations."

Amy Zimmer-Faust, 2012. "Evaluation of Approaches to Quantify Total Residual Oxidants for use in Monitoring Ballast Water Management Systems."

Member

Current Students

Shirin Sadrpour

Graduates

Navreet Aujla, 2003
Kristine Becker, 2000
Colleen Bouzan, 1999
Richard Brody, 2004 (Geography)
Lauren Brown, 2014 (Geography)
Jane Curren, 2007
Steven Estes, 2007 (EEB)
Bryn Evans, 2001 (OBEE)
Tom Ford, 2005 (EEB)
Brett Fredericks, 1999 (OBEE)
Dean Gerdeman, 1999 (OBEE)
Suzie Given, 2003
Kelly Havens, 2008 (CEE)
Sapna Hira, 2003
Setsuko Ichikawa, 2000
Shannon Leavey, 2012
Ruby Rowe, 1999
Nancy Meck, 1998
Tony Moeller, 1994
Sylvia Rostami, 1995
Katherine Smith, 2005 (EEB)
Judi Tamasi, 2008 (EEB)
Vanessa Thulsiraj, 2009 (CEE)
Mayra Tinoco, 2001
Laura Waltemath, 1993
Michelle Wilhelm, 1994
Joy Yoon, 2003 (OBEE)

Postdoctoral Scholars

Peter Raimondi (1991-92)
Kevin Lafferty (1993-94)
Monique Myers (2004)
Raphael Sagarin (2004-06)
Brandon Winfrey (2013-15)

UNIVERSITY COMMITTEE SERVICE

University Committee Service - UC Santa Barbara

1988 Marine Science Institute Search Committee for Assistant to the Director.
1989-1991 *Ad hoc* Academic Review Committees, Marine Science Institute.

University Committee Service - UCLA

1982 Biology Graduate Student's Association Committee on Microcomputers, UCLA.

1992-1993	School of Public Health Subcommittee on the MPH Comprehensive Exam.
1992-1993	School of Public Health Strategic Planning Committee on Infrastructure.
1992-1993	Department of Environmental Health Sciences Academic Policy and Procedures Committee.
1992-1998	Graduate Advisor, Environmental Science and Engineering Program.
1992-2012	Interdepartmental Committee for Environmental Science and Engineering Program.
1993-1994	School of Public Health Committee on Student Affairs.
1993-1994	Department of Environmental Health Sciences Subcommittee on Course Approval – Chair.
1993-1994	Marine Science Center Committee for the Marina del Rey Aquarium and Facility.
1993-present	Diving Control Board.
1994-1995	Editorial Board of UCLA Public Health Magazine.
1994-2002	Advisory Board of UCLA Ocean Discovery Center.
1994-1995	Biology Department Search Committee for Marine Biologist Positions.
1995	School of Public Health Public Health Practice Group Advisory Committee.
1995	Academic Personnel Office Ad Hoc Review Committee
1994-1999	School of Public Health Academic Computing Committee.
1995-1997	Department of Environmental Health Sciences Academic Policy and Procedures Committee – Chair.
1995-1997	Department of Environmental Health Sciences Recruitment and Alumni Relations Committee.
1995-2000	Marine Science Center Advisory Committee.
1996	Committee to Review the Marine Science Center.
1998-2011	Chair and Director, Environmental Science and Engineering Program.
1999-2002	School of Public Health Evaluation Committee.
1999-2000	Department of Organismic Biology, Ecology and Evolution Search Committee for Conservation Biologist Position (joint appointment with Institute of the Environment).
2000-present	UCLA Committee for the UC Natural Reserve System.

2000-2001	Department of Organismic Biology, Ecology and Evolution Search Committee for Plankton Ecologist Position (joint appointment with Institute of the Environment).
2001-2009	School of Public Health Committee on Student Affairs. (Chair, 2003-2009).
2001-2011	Editorial Board of UCLA Public Health Magazine.
2002-2005	Department of Environmental Health Sciences Search Committee for Chair of the Department.
2002-2008	Institute of the Environment Executive Committee.
2005-2009	UCLA Campus Sustainability Committee.
2006-2007	Institute of the Environment and Department of Urban Planning Search Committee for Environmental Policy position (joint appointment with Institute of the Environment and Department of Urban Planning).
2006-2014	UCLA Campus Sustainability Committee Academic Subcommittee.
2007-2012	Institute of the Environment Space Committee (chair).
2008-present	Institute of the Environment Climate Change Research Initiative.
2007-2008	School of Public Health Search Committee for Computational Biologist (chair).
2008-present	Department of Environmental Health Sciences Curriculum Committee Chair (2014-15).
2009-2010	School of Public Health Academic Computing Committee.
2010-2011	Institute of the Environment Search Committee for Director of the La Kretz Center for California Conservation Science.
2010-2011	School of Public Health Educational Policies and Curriculum Committee (EPCC).
2010-2011	Institute of the Environment and Sustainability/Ecology and Evolutionary Biology Search Committee for Conservation Biologist.
2012-present	Institute of the Environment and Sustainability Environmental Science and Engineering Curriculum Committee.
2012-present	Institute of the Environment and Sustainability Environmental Science and Engineering Admissions Committee.
2012-present	Institute of the Environment and Sustainability Environmental Science and Engineering Core Faculty Committee.
2012-present	Institute of the Environment and Sustainability Environmental Science and Engineering Faculty Advisory Committee.
2012-present	Institute of the Environment and Sustainability Ph.D. Curriculum Committee.

- 2013-2014 Department of Environmental Health Sciences Search Committee for Chair of the EHS Department.
- 2013-2014 Institute of the Environment and Sustainability Search Committee for Director of the Institute.
- 2014-present School of Public Health Evaluation Committee.
- 2014-2015 La Kretz Center for California Conservation Science Search Committee for La Kretz postdoctoral scholar.
- 2014-2015 UCLA Sustainable LA Grand Challenge Project, *Thriving in a Hotter Los Angeles* Biodiversity Research Committee.
- 2015 Academic Personnel Office Ad Hoc Review Committee

Committee Service - University of California systemwide

- 1995-2001 Coordinating Board of the University of California Water Resources Center – Member (Chair of Aquatic Ecosystems section, 2000)
- 1999 University of California Rancho Marino Evaluation Committee.
- 1999 University of California. Water Resources Center, Committee on Reports and Publications
- 1999-2001 Natural Reserve System Universitywide Advisory Committee – UCLA representative.
- 1999-2000 Select Scientific Advisory Committee on Decommissioning Offshore Oil Production Facilities for the Office of the President, University of California.

PROFESSIONAL AND SCHOLARLY SERVICE

Advisory Committees

- 1992 Florida Sea Grant Project Review Panel.
- 1992-present California Coastal Commission Scientific Advisory Panel for the San Onofre Nuclear Generating Station Marine Resource Mitigation Project, chair.
- 1995-present Santa Monica Bay Restoration Commission Technical Advisory Committee (TAC).
member (1995-2007)
Wetlands and Birds Monitoring Program Committee (1995-1996)
Intertidal Monitoring Program Committee, Chair (1997)
Habitat subcommittee, Chair (2004-2007)
Marine Protected Areas Technical Advisory Committee (MTAC) (2006-2009)
Marine Resources Advisory Committee (MRAC) (2009-present)
TAC Chair (2007-present)
- 1997-present Multi-Agency Rocky Intertidal Network (MARINE) Scientific Advisory Panel.

1997-1999	Scientific Advisory Panel on West Coast Marine Reserves. Pacific Ocean Conservation Network.
1998-99	Los Angeles & San Gabriel Rivers Watershed Council Beneficial Uses Committee.
1998-present	Southern California Wetlands Recovery Project (a partnership of state and federal agencies with wetlands responsibilities) Scientific Advisory Panel.
1998-2006	Scientific Advisory Board for the Ballona Wetlands Foundation.
2001-2002	Scientific Review Board for National Oceanic and Atmospheric Administration's Montrose/DDT fish study.
2002	Panel of Experts for Final Selection of Toxicity Reference Values (TRVs) for Ecological Risk Assessments at Vandenberg AFB, California.
2003-2005	Malibu Lagoon Technical Advisory Committee (LTAC), established by Heal the Bay/California State Coastal Conservancy to oversee planning for the restoration of Malibu Lagoon.
2005-2009	Ballona Wetland Restoration Planning, Scientific Advisory Committee (established by the California State Coastal Conservancy), co-chair.
2007-present	Santa Monica Bay Restoration Commission Governing Board (non-voting member, appoint as Chair of SMBRC Technical Advisory Committee)
2007-2013	United States Army Corps of Engineers Environmental Advisory Board (EAB).
2008-present	California Ocean Protection Council (OPC) Science Advisory Team (SAT). Co-chair (2008-09) Executive committee (2009-10)
2008-2009	California Marine Life Protection Act (MLPA) Science Advisory Team (SAT).
2009-present	California Coastal Commission Science Advisory Panel for the Poseidon Marine Life Mitigation Plan.
2009-2011	Environmental Law Institute Wetland Compensation Study Science Advisory Panel
2010-2012	Status and Trends Technical Advisory Committee, Southern California Coastal Water Research Project.
2012-present	California Environmental Protection Agency Advisory Panel, managed under the auspices of the UC Berkeley Institute of the Environment.
2014-2015	Santa Clara River Estuary Restoration Plan Technical Advisory Committee, managed by the Ventura Coastkeeper.
2015	Science Adviosry Panel for the Bunker Point Artificial Reef, National Oceanic and Atmospheric Administration

Activities in Scholarly and Professional Societies

1995-present National Association of State Universities and Land-Grant Colleges Board on Oceans and Atmosphere – Delegate.

2004-2009 Society of Wetland Scientists Student Grants Committee

Editorial Service to Scholarly Journals

Periodic referee of papers and proposals for:

Aquatic Biology
Australian Environmental Studies
Biological Bulletin
Bulletin of Marine Science
Bulletin of the Southern California Academy of Sciences
Channel Islands Symposium Proceedings
Coastal Management Journal
Cooperative Institute for Coastal and Estuarine Environmental Technology
Coral Reefs
CRC Press
Ecological Applications
Ecological Engineering
Ecological Restoration
Ecology
Environmental Management
Environmental Pollution
Evolution
Florida Sea Grant College
GEOIDE
Journal of Experimental Marine Biology and Ecology
Malacologia
Marine and Freshwater Research
Marine Behaviour and Physiology
Marine Ecology
Marine Ecology Progress Series
MMS-UC Coastal Marine Institute Program
National Marine Fisheries Service
National Research Council
National Science Foundation
National Undersea Research Program
North American Journal of Fisheries Management
Restoration Ecology
Santa Barbara Museum of Natural History Special Publication
St. Martin's Press
Studies in Tropical Oceanography
UC Pacific Rim Research Program
University of California Press
Urban Coast
USGS, Biological Resources Division
US Environmental Protection Agency
Veliger
Wetland Ecology and Mangement
Wetlands (Australia)

WIREs Water

PROFESSIONAL ACTIVITIES

Participation in Professional Meetings

Presented paper, "Ecology of *Octopus bimaculatus*," Southern California Marine Ecology Conference, Catalina Marine Science Center. 1979.

Presented paper, "Importance of octopus predation in a Southern California subtidal community," Annual Meeting of the American Society of Zoologists and the Western Society of Naturalists. 1980.

Invited paper, "Population biology of *Octopus bimaculatus*," Annual Meeting of the National Shellfisheries Association, Octopus Symposium. 1983.

Presented paper, "Dynamics of shallow-water populations of *Octopus dofleini*," Annual Meeting of the American Malacological Union, Cephalopod Session. 1983.

Invited paper, "Population dynamics of *Octopus bimaculatus*: Influence of life history patterns and synchronous reproduction," Annual Meeting of the American Malacological Union, Cephalopod Symposium. 1986.

Presented paper, "Changes in urchin and kelp densities in a crust-dominated community at Anacapa Island," Third California Channel Islands Symposium. 1987.

Presented paper, "Comparison of fish assemblages on artificial and natural reefs off the coast of Southern California," Fourth International Conference on Artificial Habitats for Fisheries. 1987.

Presented paper, "Factors influencing fish recruitment to artificial and natural reefs in Southern California," Annual Meeting of the Western Society of Naturalists. 1987.

Presented paper, "Artificial reefs off the Santa Barbara Coast: What are the benefits?," The Marine Environment of Santa Barbara and its Coastal Waters--A Symposium/Workshop. 1988.

Invited paper, "Fishery potential of *Octopus bimaculatus*," Workshop on the fishery and market potential of octopus in California. 1989.

Presented paper, "Results of the Marine Review Committee's study on the San Onofre Nuclear Generating Station: Implications for future marine environmental decisions," Coastal Zone 91. 1991.

Session Chair, Mitigation and Restoration Session, Fifth International Conference on Artificial Habitats for Fisheries. 1991.

Presented paper, "Mitigating the effects of a coastal power plant on a kelp forest community," Fifth International Conference on Aquatic Habitat Enhancement. 1991.

Invited panelist, Mitigation Panel, California Symposium on Interactions Between Coastal Science and Policy, National Academy of Sciences Ocean Studies Board. 1992.

Invited paper, "An inventory of shoreline resources," Seventh Annual Information Transfer Meeting, Pacific OCS Region, Minerals Management Service. 1992.

Poster presentation, "Ecotoxicology of Malibu Lagoon," Seventh Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1993. T. Downs (presenter) and R.F. Ambrose

Invited paper and panelist, "Measuring the value of restored coastal ecosystems," Environmental Management of Enclosed Coastal Seas (EMECS) '93. 1993.

Invited paper, "Performance standards for coastal wetland restoration." Wetland Restoration Symposium, Southern California Academy of Sciences. 1994.

Poster presentation, "Contaminants in Coastal Wetlands: Preliminary Analyses of Metals in Fish and Clams in the Malibu Creek Watershed," Eighth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1994. S. MacNeil (presenter), R.F. Ambrose, T. Moeller and S. Que Hee

Symposium organizer and Session Chair, "Wetland Restoration Symposium," 75th Annual Meeting of the Western Society of Naturalists. 1994.

Presented paper, "Performance standards for coastal wetland restoration." National Interagency Workshop on Wetlands. 1995.

Invited paper, "Sampling rocky intertidal communities to detect the effects of an oil spill: What species should we study?" Response to Oil Spills Symposium, Southern California Academy of Sciences. 1995.

Invited Panelist, "If there were an oil spill today, and we had to make a decision, what method or approach would we choose to sample rocky intertidal biota?" Response to Oil Spills Symposium, Southern California Academy of Sciences. 1995.

Presented paper, "San Onofre Nuclear Generating Station Mitigation Reef: Monitoring Issues," International Conference on Ecological System Enhancement Technology for Aquatic Environments. Japan, 1995.

Poster presentation, "Wetland Restoration Planning at Mare Island Naval Shipyard," Ninth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1996. C. Rairdan (presenter) and R.F. Ambrose.

Poster presentation, "Wetland Restoration Planning at Mugu Lagoon," Ninth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1996. S. MacNeil (presenter) and R.F. Ambrose.

Contributed paper, "Evaluation of marine protected areas: analysis of a proposed marine refuge in Malibu, California," Southern California Academy of Sciences Meeting. 1997. C.J. Lin (presenter), R.F. Ambrose and I. Beers.

Contributed paper, "Establishing performance standards for wetland restoration at Mugu Lagoon", Southern California Academy of Sciences Meeting. 1997. T.N. McPherson (presenter), R.F. Ambrose and R.R. Vance.

Presented paper, "Developing performance standards for salt marsh restoration projects," 18th Annual Meeting of the Society of Wetland Scientists. 1997. R.F. Ambrose (presenter), T.N. McPherson, R.R. Vance and T.W. Keeney.

Contributed paper, "The last hundred years at Mugu Lagoon: A southern California wetland case study," Southern California Environmental History Conference. 1997. S. Anderson (presenter) and R. Ambrose.

Poster presentation, "Performance Standards for Wetland Restoration at Mare Island Naval Shipyard," Tenth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1997. S. Daley (presenter) and R.F. Ambrose.

Poster presentation, "Establishing Performance Standards for Restoration of Sewage Oxidation Ponds at Mugu Lagoon," Tenth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1997. T. McPherson (presenter), R.F. Ambrose and R. Vance.

Poster presentation, "Restoring Degraded Tidal Wetlands: An Opportunity at the Point Mugu Naval Air Weapons Station," Tenth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1997. S. Anderson (presenter), R. Ambrose and R. Vance

Contributed paper, "Creation of tidal wetland at Mare Island Naval Shipyard following remediation of a contaminated ordnance disposal site," Society of Environmental Toxicology and Chemistry Meeting. 1997. S. Daley (presenter) and R. Ambrose.

Poster presentation, "Contaminated soils and degraded habitats: coastal wetland restoration," 18th International Society of Environmental Toxicology and Chemistry Meeting. 1997. S.A. Anderson (presenter), R.F. Ambrose and R.R. Vance

Poster presentation, "The influence of natural variability on the establishment of performance criteria," National Conference on Goal Setting and Success Criteria for Coastal Habitat Restoration, National Oceanic and Atmospheric Administration. 1998. R.F. Ambrose (presenter), T.N. McPherson and M. Adams

Poster presentation, "Sewage Sludge as a Soil Amendment for Restoration: Field Evaluation of Toxicity to Wetland Plants," Eleventh Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1998. R. Ambrose, R. Vance, S. Que Hee, S. Anderson (presenter) and T. McPherson.

Poster presentation, "Ecological effects of electrokinetics demonstration project for remediation of heavy metal contamination at Mugu Lagoon," Eleventh Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1998. S. Adams (presenter) and R. Ambrose.

Invited paper, "Transforming sewage ponds into salt marsh at Mugu Lagoon," Southern California Academy of Sciences Meeting. 1998. R. R. Vance (presenter), R. F. Ambrose and T. W. Keeney.

Contributed paper, "Population differences in the responses of California killifish to varying environmental conditions," American Geophysical Union Meeting. 1998. B. Fredericks (presenter), D. Gerdeman, G. Forrester, R. Vance, R. Ambrose and L. Schweitzer.

Contributed paper, "Exposure Assessment and Differential Toxic Responses of Chemical Contaminants in Three Populations of California Killifish (*Fundulus parvipinnis*)," American Geophysical Union Meeting. 1998. Schweitzer, L. (presenter), Suffet, I.H., Fredericks, B., Gerdeman, D., Forrester, G., Vance, R., and Ambrose, R.

Contributed paper, "Utilizing Sewage Sludge in a Southern California Wetland Restoration: An Experimental Test," American Society of Limnology and Oceanography/Ecological Society of America Meeting. 1998. R. Vance, R. Ambrose and S. Anderson (presenter).

Invited keynote speaker, "Wetland Mitigation in the United States: The Good, the Bad and the Ugly," Conference on Wetland Mitigation in Australia, University of New South Wales. 1998.

Invited speaker, "Biodiversity along the Coast," "What is Happening Now" Panel for Conference on California's Biodiversity Crisis: The Loss of Nature in an Urbanizing World," sponsored by UCLA Institute of the Environment. 1998.

Poster presentation, "Incorporating Ecotoxicological Field Experiments into a Restoration Plan: Temporal and Spatial Scales of Assessment," Twelfth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1999. R.F. Ambrose, R.R. Vance, S.S. Anderson (presenter), S. Anghera.

Poster presentation, "Influence of Tidal Creek Characteristics on the Abundance Patterns of Fauna at Mugu Lagoon, CA," Twelfth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1999. E.S. Larsen (presenter), S. Anghera and R.F. Ambrose.

Poster presentation, "Sediment Contaminant's Influence on Large-Scale Spatial Distribution of Benthic Infauna at Pt. Mugu Using Porewater Toxicity Tests with Indigenous and EPA Recommended Organisms," Twelfth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 1999. S. Anghera (presenter) and R.F. Ambrose.

Contributed paper, "Influence of Tidal Creek Characteristics on the Abundance Patterns of Fauna at Mugu Lagoon, CA," Southern California Academy of Sciences Meeting. 1999. E.S. Larsen (presenter), S. Anghera and R.F. Ambrose.

Contributed paper, "Influence of tidal creek characteristics on salt marsh species: Lessons for salt marsh restoration," Society for Ecological Restoration Annual Meeting. 1999. R.F. Ambrose (presenter), E.S. Larsen and S. Anghera.

Contributed paper, "Experimental evaluation of the efficacy of using sewage sludge in salt marsh restoration," Society for Ecological Restoration Annual Meeting. 1999. R.F. Ambrose, R.R. Vance (presenter), S.S. Anderson, and T.W. Keeney.

Poster presentation, "Soil seed bank biodiversity in natural and restored salt marshes of California," Society for Ecological Restoration Annual Meeting. 1999. S.S. Anderson, B.C. Coffman (presenter) and R.F. Ambrose.

Poster presentation, "Using sewage sludge in salt marsh restoration: 1. A potted plant experiment," Estuarine Research Federation Annual Meeting. 1999. R.R. Vance (presenter), R.F. Ambrose, S.S. Anderson and T.W. Keeney.

Poster presentation, "Using sewage sludge in salt marsh restoration: 2. A pilot restoration experiment," Estuarine Research Federation Annual Meeting. 1999. R.R. Vance, R.F. Ambrose, S.S. Anderson (presenter), S. Adams and T.W. Keeney.

Symposium organizer and Session Chair, "Restoration Ecology Symposium," Annual Meeting of the Western Society of Naturalists. 1999.

Invited paper, "Restoring coastal wetlands in southern California: What is our model?" Annual Meeting of the Western Society of Naturalists. 1999.

Contributed paper, "A comparison of reef fish populations inside and outside of five no-take marine reserves in southern California," Annual Meeting of the Western Society of Naturalists. 1999. I.T. Beers (presenter) and R.F. Ambrose.

Contributed paper, "Variation in the distribution and abundance of salt marsh vegetation associated with elevation and tidal inundation" Annual Meeting of the Western Society of Naturalists. 1999. H. M. Page (presenter), S. Schroeter, D. Reed, R. F. Ambrose, J. Callaway, H. Elwany and J. Dixon.

Poster presentation, "A nutrient budget for Malibu Lagoon, California," 10th Annual West Coast Conference on Contaminated Soil and Water, American Environmental Health Association. 2000. S.E. Sheehan (presenter), C.B. Liban, R. Ambrose and I.H. (Mel) Suffet.

Poster presentation, "Development and Validation of a Mass Balance Nutrient Loading Model: Case Study - Malibu Lagoon, CA, USA," 10th Annual West Coast Conference on Contaminated Soil and Water, American Environmental Health Association. 2000. C.B. Liban (presenter), J.F. Moragrega-Font, S. Sheehan, R. Ambrose and I.H. (Mel) Suffet.

Poster presentation, "Sewage sludge as a soil amendment for restoration: Field evaluation of toxicity to wetland plants, heavy metal migration, and bioaccumulation," Thirteenth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2000. S. Anderson, B. Evans, J. Malone, S. Anghera, R.F. Ambrose and R.R. Vance.

Poster presentation, "Assessment of Southern California Wetland Toxicity Using the Sea Urchin 72-Hour Embryo Development Test," Thirteenth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2000. Myers, M.R., M.L. Anghera and R.F. Ambrose.

Poster presentation, "Evaluating Potential Impacts of Heavy Metal Deposition from Aircraft Overflights in Coastal Wetlands," Thirteenth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2000. Boyle, K.A., P. Fong, R. Ambrose and A.R. Flegal.

Poster presentation, "Use of a Small Native Fish Species (*Gila orcutti*) to Monitor Stream Health: Population Structure, Reproductive Parameters and biomarkers of Pesticide Exposure," Thirteenth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2000. Luce, S. and R.F. Ambrose.

Poster presentation, "Influence of Contaminants on Large-Scale Spatial Distribution of Benthic Infauna at Mugu Lagoon, California," Thirteenth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2000. Anghera, M.L. and R.F. Ambrose.

Poster presentation, "Continued declines of black abalone due to withering syndrome along the coast of California," Thirteenth Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2000. T.E. Minchinton (presenter), P.T. Raimondi, M. Wilson, R.F. Ambrose and J.M. Engle.

Contributed paper, "A cumulative impact assessment method for Section 404 Permitting," Wetlands Regulatory Workshop. 2000. Lilien, J.P and R.F. Ambrose.

Contributed paper, "Soil seed bank biodiversity in restored and natural salt marshes of Mediterranean California," MEDECOS. 2000. G.C. Coffman (presenter), S.S. Anderson and R.F. Ambrose.

Contributed paper, "Restoring a Southern California salt marsh using sewage sludge: Preliminary results from a field experiment," Annual Meeting of the Society of Wetland Scientists. 2000. R.F. Ambrose (presenter), R.R. Vance and T.W. Keeney.

Contributed paper, "Assessment of wetland restoration success via ecological functioning," SERCAL. 2000. S. Anderson (presenter) and R.F. Ambrose.

Poster presentation, "Effects of Land Use on Stream Ecosystem Integrity in Calleguas Creek Watershed, Ventura County, CA," AWRA Annual Meeting. 2000. Cindy J. Lin (presenter), Richard F. Ambrose, Richard A. Berk, Gretchen Coffman, Steve Lee, Shelly Luce, Sean Bergquist, and Christine Chin.

Contributed paper, "Examining the Ecological Effects of Land Use on Stream Benthic and Fish Communities in Calleguas Creek Watershed, Ventura County, CA," SETAC. 2000. C.J. Lin (presenter) and R.F. Ambrose.

Poster presentation, "Influence of contaminants on benthic infauna in a coastal salt marsh, Mugu Lagoon, CA," SETAC. 2000. Anghera, M.L (presenter) and R.F. Ambrose.

Poster presentation, "Acetylcholinesterase inhibition in wild arroyo chub (*Gila orcutti*) from Calleguas Creek, California," SETAC. 2000. S. Luce (presenter), R.F. Ambrose and B. Wilson.

Poster presentation, "Land use effects on stream ecology in a mixed-use watershed in mediterranean California," 5th International Conference of IWA - Diffuse/Nonpoint Pollution and Watershed Management. 2000. C.J. Lin (presenter), J.A. Pedersen, I.H. Suffet and R.F. Ambrose.

Poster presentation, "Ecological functioning within Californian wetlands: novel indicators to evaluate restoration success," 14th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2001. S. Anderson (presenter), R.F. Ambrose and R. Vance.

Poster presentation, "Spatial patterns of contaminants and toxicity in wetland sediments: implications for ecological impact assessments," 14th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2001. M.L. Anghera (presenter), R.F. Ambrose and S. Bay.

Poster presentation, "Acetylcholinesterase inhibition in wild arroyo chub (*Gila orcutti*) from Calleguas Creek, California," 14th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2001. S. Luce (presenter), R.F. Ambrose, B.W. Wilson and W.H. Fry.

Poster presentation, "Monitoring wetland restoration success: is there an easy way?" 14th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2001. C.S. Shuman (presenter) and R.F. Ambrose.

Poster presentation, "Soil Compaction as a Factor in Salt Marsh Restoration," 14th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2001. D.P. Swenson (presenter) and R.F. Ambrose.

Poster presentation, "Sewage Sludge as a Soil Amendment in Ecological Restoration: Field Evaluation of Wetland Plant Performance," 14th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2001. J.C. Malone (presenter), R.R. Vance, R.F. Ambrose, S.S. Anderson, B.S. Evans, M.L. Anghera, and T.W. Keeney.

Contributed paper, "Spatial patterns of contamination and toxicity in wetland sediments: implications for ecological impact assessments," International Conference of the Society of Environmental Toxicology and Chemistry. 2001. M.L. Anghera (presenter), R.F. Ambrose and S. Bay.

Contributed paper, "Soil Seed Banks as Indicators of Ecological Functioning within Natural and Restored Salt Marshes in California," 2nd Annual Ballona Wetlands Symposium. 2001. Sean Anderson (presenter), Gretchen Coffman and Richard Ambrose.

Contributed paper, "Restoring a southern California salt marsh using sewage sludge: Results from field experiments." 16th Biennial Conference of the Estuarine Research Federation. 2001. R.F. Ambrose (presenter), R.R. Vance, S.S. Anderson and T.W. Keeney.

Contributed paper, "Using Indicators of Ecological Functions to Assess Wetland Restoration Success." 16th Biennial Conference of the Estuarine Research Federation. 2001. Sean S. Anderson (presenter), Richard F. Ambrose, Todd Huspeni, and Kevin Lafferty.

Contributed paper, "Evaluating impacts of heavy metal and nitrogen deposition from aircraft overflights of coastal wetlands." 16th Biennial Conference of the Estuarine Research Federation. 2001. K.A. Boyle (presenter), P. Fong and R. Ambrose.

Poster presentation, "Linking benthic infauna communities to toxicity and contaminants in a tidal wetland." Conference of the Society of Environmental Toxicology and Chemistry. 2001. M.L. Anghera (presenter), R.F. Ambrose and S. Bay.

Poster presentation, "Soil Microbial Activity and Mycorrhizal Associations in a Southern Californian Salt Marsh." 15th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2002. M.W. Vandersande (presenter) and R.F. Ambrose.

Poster presentation, "The ten-day amphipod sediment toxicity test: laboratory vs. field." 15th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2002. M. Anghera (presenter) and R.F. Ambrose.

Poster presentation, "Metal contamination arising from using sewage sludge as fertilizer in salt marsh restoration." 15th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2002. J. Samhoury (presenter), R.R. Vance, R.F. Ambrose, S. Anderson and M. Anghera.

Poster presentation, "Chelate-facilitated phytoextraction of heavy metals by exotic and native plants – Phase I: plant screening and treatability study." 15th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2002. K. Yoon (presenter), R.F. Ambrose and T. Harmon.

Contributed paper, "Monitoring subtidal community changes at Survey Rock, Anacapa Island: forty years and counting." Annual Meeting of the Southern California Academy of Sciences. 2002. J. Engle, J. Altstatt (presenter), R. Ambrose, J. Carroll and J.A. Coyer.

Poster presentation, "Soil microbial activity and mycorrhizal association in a southern Californian salt marsh." Annual Meeting of the Southern California Academy of Sciences. 2002. M.W. Vandersande (presenter) and R.F. Ambrose.

Interactive poster presentation, "The ten-day amphipod toxicity test: Laboratory vs. Field." Conference of the Society of Environmental Toxicology and Chemistry. 2002. M.L. Anghera (presenter), R.F. Ambrose and S.M. Bay.

Poster presentation, "Evaluating impacts of heavy metal and nitrogen deposition from aircraft in coastal wetlands." Conference of the Society of Environmental Toxicology and Chemistry. 2002. K.A. Boyle (presenter), M.L. Anghera, R.F. Ambrose, and P. Fong.

Poster presentation, "Watershed management through citizen monitoring: A new 303d listing and TMDL requirement for Malibu Creek, California." Conference of the Society of Environmental Toxicology and Chemistry. 2002. S. Luce (presenter), M. Abramson, and R. Ambrose.

Poster presentation, "California Native Plant-mediated Eco-remediation of Petroleum Hydrocarbon Contaminated Soil: UCLA Pilot Project." 16th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2003. E. Marish (presenter), T. C. Harmon, and R. Ambrose.

Poster presentation, "Phytoremediation for Soil Contaminated with Petroleum Hydrocarbons Using California Native Plants." 16th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2003. V.K. Yoon (presenter), E. Marish, T. C. Harmon, and R. Ambrose.

Poster presentation, "Are Southern California Coastal Wetlands Sources or Sinks for Fecal Indicator Bacteria?" 16th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2003. M. Evanson (presenter) and R.F. Ambrose. (Best poster award)

Poster presentation, "Evaluating impacts of heavy metal and nitrogen deposition from aircraft in coastal wetlands." 16th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program. 2003. M. Anghera (presenter), K.A. Boyle, P. Fong and R.F. Ambrose.

Poster presentation, "Phytoremediation for Soil Contaminated with Petroleum Hydrocarbons Using California Native Plants." Southern California SETAC meeting. 2003. Vada Kyonga Yoon (presenter), Elad Marish, Thomas C. Harmon*, and Richard Ambrose.

Contributed paper, "Are coastal wetlands in southern California sources or sinks for fecal indicator bacteria?" Southern California Academy of Sciences meeting. 2003. Ambrose, R.F., M. Evanson (presenter), L.A. Levin and S.B. Grant.

Contributed paper, "Long-term change and human impacts of mussel communities (*Mytilus californianus*) along the coast of California." Annual Meeting of the Western Society of Naturalists. 2003. Smith, J.R. (presenter), R.F. Ambrose and P. Fong.

Poster presentation, "Current Condition and Long-Term Change in the Abundance and Biodiversity of Mussel Beds Communities of Wave-Exposed Rocky Intertidal Zones of the Channel Islands." Sixth Channel Islands Symposium. 2003. Smith, J.R. (presenter), R.F. Ambrose and P. Fong.

Poster presentation, "A Study of the Effects of Anacapa's Natural Area and Pelican Closure on Fish Populations." Sixth Channel Islands Symposium. 2003. Tetreault, I.L. (presenter) and R.F. Ambrose.

Invited speaker, "Influence of nutrient loading on the invasion of an alien plant species, Giant Reed (*Arundo donax*), in southern California riparian ecosystems. Joint meeting of Water Resources Center Coordinating Board and Advisory Council. 2004.

Contributed paper, "Invasion of *Arundo donax* in river ecosystems of mediterranean climates: causes, impacts and management strategies." MEDECOS. 2004. Coffman, G.C. (presenter), R.F. Ambrose and P.W. Rundel.

Contributed paper, "Using monitoring to study unpredictable, high impact events: effects of human collection of the intertidal limpet *Lottia gigantea*." Western Society of Malacologists. 2004. Raphael Sagarin (presenter), Richard Ambrose, Bonnie Becker, Jack Engle, Steve Murray, Peter Raimondi, Dan Richards.

Contributed paper, "Criteria for Ecological Risk Assessment at Vandenberg Air Force Base: issues and data gaps." SETAC. 2004. Barry W. Wilson (presenter), Richard Ambrose, Brian Faulkner, D. Michael Fry and Michael Johnson.

Contributed paper, "Macrobenthic responses to natural and contaminant related variables in Mugu Lagoon, a tidal wetland in Southern California." SETAC. 2004. M. Anghera (presenter), and R. Ambrose.

Invited presentation, "Using monitoring to study unpredictable, high impact events: effects of human collection of the intertidal limpet *Lottia gigantea*." 2004. CEA-CREST Annual Environmental Science Conference. Sagarin R. (presenter), R. Ambrose, B. Becker, J. Engle, S. Murray, P. Raimondi, D. Richards.

Invited presentation, "Understanding Rocky Intertidal Communities Through Long-Term Monitoring: The MARINE Experience." 2004. CEA-CREST Annual Environmental Science Conference.

Contributed paper, "Color change and consistency in the sea star *Pisaster ochraceus*." 2004. Society for Integrative and Comparative Biology, San Diego, CA. Raimondi, P.T, R. Sagarin (presenter), R. Ambrose, M. George, S. Lee, D. Lohse, C. M. Miner, S. Murray, and C. Roe

Contributed paper, "Color change and consistency in the sea star *Pisaster ochraceus*." 2004. Western Society of Naturalists, Rohnert Park, CA. Raimondi, P.T, R. Sagarin (presenter), R. Ambrose, M. George, S. Lee, D. Lohse, C. M. Miner, S. Murray, and C. Roe

Invited presentation, "Protecting Rocky Intertidal Resources." Santa Monica Bay Restoration Commission's State of the Bay Conference, 2005.

Invited presentation, "Monitoring the success of wetland mitigation." California Estuarine Research Society Conference, 2005.

Invited presentation, "Assessing Similarity between Restored and Reference Wetlands." Schroeter, S. (presenter), D. Reed, M. Page, M. Steele, P. Raimondi, and R. Ambrose. California Estuarine Research Society Conference, 2005.

Invited presentation, "Evaluating the success of wetland mitigation in Los Angeles and Ventura Counties: assessing permit compliance and wetland condition." Southern California Academy of Sciences Conference, 2005.

Invited presentation, "Monitoring plan for the San Dieguito Lagoon restoration." M. Page (presenter), S. Schroeter, D. Reed, R. Ambrose and M. Steele. Southern California Academy of Sciences Conference, 2005.

Invited presentation, "Algae-nutrient relationships and TMDL Development in Malibu Creek, California." S.L. Luce (presenter), R.F. Ambrose and M.A. Abramson. Southern California Academy of Sciences Conference, 2005.

Contributed presentation, "Are we creating the ideal conditions for *Arundo donax* invasion in California?" G.C. Coffman (presenter), T. Dudley, P.W. Rundel, and R.F. Ambrose. California Invasive Plant Council (Cal-IPC) Conference, 2005.

Invited presentation, "Restoring Southern California's Rocky Intertidal Habitats." Headwaters to Oceans Conference, 2005.

Poster presentation, "Mercury cycling and historical mercury deposition in Mugu Lagoon, a coastal estuary in southern California." S. Rothenberg (presenter), R.F. Ambrose, M. Kirby and J. Jay. 19th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program, 2006.

Poster presentation, "Assessing Rocky Intertidal Habitats before an Oil Spill." F. Vanderbilt (presenter) and R.F. Ambrose. 19th Annual Research Symposium of the U.C. Toxic Substances Research and Teaching Program, 2006.

Poster presentation, "An Application of Island Biogeography Theory to Riparian Restoration." J. Shevtsov (presenter) and R.F. Ambrose. Southern California Academy of Sciences Meeting, 2006. (Best poster award)

Invited presentation, "MARINE: A Long-Term Monitoring Program for Detecting Change in Rocky Intertidal Environments." S. Murray (presenter), R.F. Ambrose, J. Engle, P. Raimondi and M.E. Dunaway. National Monitoring Meeting, 2006.

Contributed presentation, "Wetland Mitigation in California: Has no net loss of wetland acreage been achieved throughout 10 years of policy and regulation?" Lee, S.F. (presenter), R.F. Ambrose, and J.C. Callaway. Western Society of Naturalists Conference, 2006.

Invited presentation, "Success of Wetland Mitigation Projects in California." R.F. Ambrose, S. Lee and J. Callaway. California Society for Ecological Restoration Meeting, 2006.

Contributed paper, "Fecal indicator bacteria in a coastal estuarine system." Evanson, M. (presenter) and R.F. Ambrose. Pacific Estuarine Research Society Meeting, 2007.

Poster presentation, "Will a reduction in Hg_T result in a reduction in methylmercury? Evaluating the effectiveness of Mercury Total Maximum Daily Loads in four sites." Rothenberg, S.E.

(presenter), R.F. Ambrose and J.A. Jay. Society of Environmental Toxicology and Chemistry Annual Meeting, 2007.

Contributed paper, "Examining the health of rocky shores along the Pacific Coast – Can local government and citizens help?" Helix, M.E. (presenter), R.F. Ambrose, J.M. Engle, S.N. Murray and P.T. Raimondi. Coastal Zone '07, 2007.

Contributed paper, "MARINE: examining the health of rocky shores along the Pacific Coast." M.E. Helix (presenter), P. Raimondi, R. Ambrose, J. Engle, and S. Murray. Monterey Bay National Marine Sanctuary Currents Symposium, California State University Monterey Bay, Monterey, CA, 2007.

Contributed paper, "Success of Wetland Mitigation Projects in California." R.F. Ambrose, S.F. Lee and J.C. Callaway. Society of Wetland Scientists Annual Meeting, 2007.

Contributed paper, "Wetland Mitigation in California: Has "no net loss" of wetland acreage been achieved throughout 10 years of policy and regulation?" S.F. Lee (presenter), R.F. Ambrose, and J.C. Callaway. Society of Wetland Scientists Annual Meeting, 2007.

Contributed paper, "Natural Wetland Size and Tidal Creek Shape Matter for Southern California Coastal Water Quality." M.R. Myers (presenter) and R.F. Ambrose. Society for Conservation Biology, 2007.

Poster presentation, "Applications for High Resolution Biological Sensing in Aquatic Systems." R. Gilbert, C. Lee, J.A. Jay and R.F. Ambrose. CENS 5th Annual Research Review. Center for Embedded Network Sensing, Paper 367. <http://repositories.cdlib.org/cens/Posters/367>. 2007.

Contributed paper, "Do You Buy it? Mitigation Banking: A Study of Wetland Conditions and Functions." L.E. Wainer (presenter), J.C. Callaway, S.F. Lee and R.F. Ambrose. Society of Wetland Scientists Annual Meeting, 2007.

Contributed paper, "Success of Wetland Mitigation Projects in California." R.F. Ambrose, S.F. Lee and J.C. Callaway. Ecological Society of America/International Society for Ecological Restoration Joint Meeting, 2007.

Contributed paper, "A Multi-Metric Index for Evaluating the Condition of Riparian Corridors." F. Federico (presenter), S.L. Luce and R.F. Ambrose. WEFTEC (Water Environment Federation Technical Exhibition and Conference) 2007.

Contributed paper, "Regional comparisons and decadal changes in mussel populations (*Mytilus californianus*) and mussel bed community diversity along the California coast." J.R. Smith (presenter), R.F. Ambrose and P. Fong. Channel Islands Symposium, 2008.

Invited paper, "Establishing Goals for Restoration of Coastal Wetlands in Southern California Based on Historical and Contemporary Habitat Distributions." R.F. Ambrose and T. Bear. Southern California Wetlands Recovery Project Annual Symposium, 2008.

Contributed paper, "Carpinteria Salt Marsh: Large Wetland, Long Creeks, Clean Water." M. Myers (presenter) and R.F. Ambrose. Headwaters to Oceans (H2O) Conference, 2008.

Invited paper, "Using Historical Habitat Distributions when Planning for the Restoration of Coastal Wetlands in Southern California." R.F. Ambrose and T. Bear. Headwaters to Oceans (H2O) Conference, 2008.

Poster presentation, "The Impact of 100 Years of Wildfires on Mercury (Hg) Accumulation in Two Lakes in Southern California, USA." S.E. Rothenberg (presenter), M.E. Kirby, M.B. DeRose, B.W. Bird, C. Lin, R.F. Ambrose, J.A. Jay. American Geophysical Union Conference, 2008.

Contributed paper, "Attenuation of Fecal Indicator Bacteria and Human-Specific Bacteroides by a Natural Southern California Coastal Wetland." M. Myers (presenter), R.F. Ambrose, T. Holden, B. Secru, and S. Estes. Coastal and Estuarine Research Federation Conference, 2009.

Invited plenary address, "State of the Bay 2010." R.F. Ambrose and M. Dijori (co-presenters). Santa Monica Bay Restoration Commission's State of the Bay Conference, 2010.

Invited paper, "Developing Indicators for Monitoring the Status of Rocky Shores." S.N. Murray (presenter), R.F. Ambrose, J. Engle, P. Raimondi and S. Weisberg. California and the World Ocean Conference, 2010.

Invited plenary address, "Monitoring the success of wetland restoration at Mugu Lagoon, California." Ballona Wetlands Science and Research Symposium, 2010.

Contributed paper, "Carbon storage in southern California's natural and restored wetlands." M.R. Meyer (presenter), R.F. Ambrose and K. Elgin. Coastal Zone 2011.

Contributed paper, "Evaluation of total residual oxidant technologies for use in monitoring ballast water treatment system." A. Zimmer-Fauts (presenter), R.F. Ambrose and M. N. Tamburri. 2nd IMO-GloBallast and IMarEST Shipbuilders' Forum on the Ballast Water Management Convention, 2011.

Contributed paper, "Use of a Rapid Quantitative PCR Assay for Source Identification of Human Fecal Pollution in the Malibu Creek Watershed." V. Thulsiraj (presenter), S. Estes, R. Ambrose, and J. A. Jay. American Society of Microbiology Conference, 2012.

Invited presentation, "Rockweed Abundances in the Rocky Intertidal of the West Coast of the USA: Using Panoramic photographs to assess temporal changes." Multi-Agency Rocky Intertidal Network (MARINE) Annual Meeting, 2012.

Contributed paper, "Carbon Sequestration in Southern California Salt Marshes: Lessons (To Be) Learned." J.K. Keller (presenter), R.F. Ambrose, B.K. Elgin, and M. Meyers. Southern California Academy of Sciences Annual Meeting, 2012.

Invited symposium paper, “Incorporating Carbon Management for Climate Change Mitigation into Coastal Management Planning.” R.F. Ambrose (presenter) and S. Crooks. 9th INTECOL International Wetlands Conference, 2012.

Contributed paper, “Exploring the potential for carbon sequestration in southern California salt marshes.” J.K. Keller (presenter), R.F. Ambrose, B.K. Elgin, and M. Meyers. California Estuarine Research Society Annual Meeting, 2012.

Contributed paper, “Eelgrass restoration at Frenchy’s Cove, Anacapa Island: Recovery ten years after successful transplantation.” J. Altstatt (presenter), R. Ambrose, J. Coyer, J. Engle and J. Wible. 8th California Islands Symposium, 2012.

Contributed paper, “A comparison of ecological rapid assessment scores to a decomposition assay in non-restored and restored stream systems.” L.S. Fong (presenter) and R.F. Ambrose. American Society of Limnology and Oceanography Annual Meeting, 2013.

Contributed paper, “The occurrence of virulence genes among *E. faecalis* and *E. faecium* isolates from beaches, urban runoff, humans, sewage, dogs and birds in southern California.” D.M. Ferguson (presenter), G.N. Talavera, L.A. Ríos Hernández, S.B. Weisberg, R.F. Ambrose, and J.A. Jay. U.S. RWQC: A Vision for the Future, 2013.

Contributed paper, “Reconstructing the long-term record of coastal marsh dynamics in California.” L.N Brown (presenter), G.M MacDonald and R.F. Ambrose. Society for Ecological Restoration California chapter annual meeting, 2013.

Contributed paper, “Accretion, sediment deposition and suspended sediment dynamics in Mugu Lagoon, a southern California coastal estuary.” J. Rosencranz (presenter) and R.F. Ambrose. Coastal and Estuarine Research Federation Annual Meeting, 2013.

Contributed paper, “Stakeholder opinions on management options for future conservation measures for North Pacific striped marlin.” V. Chan (presenter) and R.F. Ambrose. 65th Tuna Conference, 2014.

Contributed paper, “Development of southern California stream restoration performance curves using the California Rapid Assessment Method, and integrative wetland condition index.” L.S. Fong (presenter), E.D. Stein and R.F. Ambrose. Joint Aquatic Sciences Meeting, 2014.

Contributed poster, “Projected tidal marsh response to sea-level rise along the Pacific coast.” K. Buffington (presenter), K. Thorne, B. Dugger, J. Takekawa, G. McDonald, R. Ambrose, G. Guntenspergen, J. Holmquist, C. Freeman, K. Powelson, C. Janousek, J. Rosencranz, L. Brown. Pacific Northwest Climate Science Conference, 2014.

Contributed paper, “Plant Ecology and Function in Stormwater Biofilters in Melbourne, AUS.” B.K. Winfrey, A.S. Mehring, R.F. Ambrose and L.A. Levin. 14th Annual American Ecological Engineering Society Meeting, Charleston, SC. 2014.

Contributed poster, “Does Species Composition Affect Water Quality Improvement in Stormwater Biofilters?” B.K. Winfrey and R.F. Ambrose. 14th Annual American Ecological Engineering Society Meeting, Charleston, SC. 2014.

Invited keynote speaker, “Tides of change: past trends in rocky intertidal communities and prospects for the future.” R.F. Ambrose. Discovery Lecture Series, presented by AltaSea and Cabrillo Marine Aquarium.

Contributed paper, “Scaling UPP the Integration Between Research and Education: Lessons from the Undergraduate PIRE Program (UPP) Down Under.” J. Rowe, M. Schmalstig, J. Martone, S. Jiang, J. Saphores, R. Ambrose and 17 others. Science of Team Science (SciTS) 2015 Conference.

Invited paper, “Comparison of stormwater biofiltration systems in southeast Australia and southern California.” R.F. Ambrose. Indo-US Forum on Transforming Stormwater into a Resource: Design, Risks & Benefits, New Delhi, India. 2015.

Invited presentation, “Natural treatment systems for cleaning storm water and restoring watersheds.” R.F. Ambrose. Our Coastal Environment: Past, Present and Future, University of Southern California, Los Angeles, CA. 2015.

Invited paper, “Lessons from Down Under: Rain Gardens in Southern California.” B.K. Winfrey and R.F. Ambrose. Southern California Academy of Sciences Annual Meeting. 2015.

Contributed paper, “Balanced sediment fluxes in southern California’s Mediterranean-climate zone salt marshes.” J. Rosencranz and others. Coastal and Estuarine Research Federation annual meeting, Portland, OR. 2015.

Contributed paper, “Does pruning affect stormwater function?” B.K. Winfrey, A.S. Mehring, R.F. Ambrose, L.A. Levin, B.E. Hatt and P.L.M. Cook. 15th Annual American Ecological Engineering Society Meeting, Stillwater, OK. 2015.

Contributed paper, “Does pruning affect stormwater biofilter performance?” B.K. Winfrey, A.S. Mehring, R.F. Ambrose, L.A. Levin, B.E. Hatt and P.L.M. Cook. 3rd International Erosion Control Conference and 9th International Water Sensitive Urban Design Conference, Sydney, NSW. 2015.

Contributed paper, “Integrated Model of Ocean Acidification and Hypoxia to Support Ecosystem Prediction and Environmental Management in the California Current Ecosystem.” M. Sutula, J.C. McWilliams, A. Deutsch, R.F. Ambrose, S.R. Alin, N. Bednarsek, D. Bianchi, R.A. Feely and F. Kessouri. American Geophysical Union Meeting, San Francisco, CA. 2016.

Professional Associations

Ecological Society of America
Coastal and Estuarine Research Federation
Society for Ecological Restoration International
Society of Wetland Scientists

Southern California Academy of Scientists
Western Society of Naturalists

Consulting Activities

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| 1982-1983 | Consultant to Channel Islands National Park, VTN, Oregon, Inc. Design and pilot study to determine human impacts on rocky intertidal communities in the Channel Islands National Park. |
| 1983-1984 | Scientific advisor to Cori International for nature films. |
| 1988 | Consultant to Channel Islands National Marine Sanctuary. Environmental Assessment of damage caused by shipwreck of <i>Tortuga</i> on San Miguel Island. |
| 1990 | Consultant to Woodward-Clyde Consultants. Spring assessment of Exxon Valdez oil in intertidal areas in Prince William Sound, Alaska. |
| 1990 | Consultant to California Coastal Commission, City of Chula Vista and City of Carlsbad. Evaluation of alternatives for mitigating impacts of proposed coastal power-plant expansion. |
| 1991-1999 | Consultant to National Oceanic and Atmospheric Administration. Evaluation of restoration alternatives for marine resource damages in Southern California. |
| 1993 | Consultant to California State Coastal Conservancy. Review and evaluation of potential techniques for mitigating environmental impacts of Port development in California. |
| 1996-1997 | Scientific Review Panel for MEC Analytical Systems, Inc., Environmental Mitigation Monitoring project for the Minerals Management Service. |
| 1996-1997 | Consultant to MEC Analytical Systems/ U. S. Dept. of Interior Minerals Management Service. Evaluation of mitigation techniques for oil and gas development projects. |
| 1997 | Consultant to California State Coastal Conservancy. Review of Southern California Wetlands Inventory for Los Angeles County. |
| 1998-1999 | Consultant to Advancia Corporation and the U.S. Army Corps of Engineers. Evaluation of biological effects of electrokinetics demonstration project. |
| 1999 | Consultant to U.S. Army Corps of Engineers. Evaluation of watershed and riparian habitat assessment methodologies. |
| 1999-2000 | Consultant to National Oceanic and Atmospheric Administration. Resource replacement alternatives involving constructed reefs in Southern California. |
| 2004-2009 | Consultant to Aspen Environmental Group/California State Coastal Conservancy. Restoration planning for Ormond Beach wetlands. |
| 2004-2005 | Consultant to the City of Malibu. Wetland restoration planning for Malibu Civic Center region, including wetlands for stormwater treatment. |

- 2007-2009 Consultant to Geosyntec Consultants/RMC Water for the design of the Malibu Legacy Park. Responsible for design of ecological aspects of project. Project won the 2011 American Society of Civil Engineers' Project of the Year Award, the 2012 Water Environment Federation Water Quality Improvement Award, and the 2013 Helen Putnam Award of Excellence from the League of California Cities.
- 2007-2008 Consultant to Psomas for design of South Los Angeles Wetland Park.
- 2007-2008 Consultant to the City of Malibu. Marine resources in the Malibu Area of Special Biological Significance.
- 2010-2011 Academic consultant to the Long Beach Aquarium of the Pacific for the development of an exhibition on environmental issues in Antarctica.
- 2010-2012 Consultant to RMC Water and Environment for the habitat component of the updated Greater Los Angeles County Integrated Regional Water Management Plan.
- 2014-present Consultant to City of Malibu to develop management plan for Malibu Legacy Park.

Seminars, Lectures, and Workshops

Participant, Conference on National Science Foundation Program for Student Originated Studies, Washington, D.C. 1974.

Co-Organizer and Participant, Southern California Marine Ecology Conference, Catalina Marine Science Center. 1979.

Presented paper, "Optimal foraging in *Octopus bimaculatus*," James Reserve Meeting, University of California James Reserve. 1979.

Invited Speaker, Institute for Marine and Coastal Studies, University of Southern California. 1980.

Participant, Workshop on Biological Resources of the Santa Barbara Channel, Santa Barbara. 1988.

Participant, Abalone Mortality Meeting (sponsored by Sea Grant Marine Advisors and Department of Fish and Game), UCSB. 1988.

Invited Speaker, Meeting of California Sea Grant Marine Advisors. 1988.

Participant, Ports of Long Beach and Los Angeles working group on evaluating fish production on artificial reefs. 1988.

Organizing Committee, Proceedings Editor and Participant, Workshop on the fishery and market potential of Octopus in California. 1989.

Session Chair, *Octopus* Fisheries and Biology Session, Workshop on the fishery and market potential of Octopus in California. 1989.

Participant, Workshop on Preliminary Evaluation of Restoration Alternatives for the Montrose Natural Resource Damage Case, National Marine Fisheries Service. 1991.

Invited paper, "Summary of the Marine Review Committee's study on the effects of the San Onofre Nuclear Generating Station on giant kelp," Workshop on design and performance evaluation of a 300-acre artificial reef in Southern California, Fifth International Conference on Aquatic Habitat Enhancement. 1991.

Invited participant and panelist, Second Southern California Artificial Kelp Reef Workshop. 1992.

Invited participant, Santa Monica Bay Monitoring Workshop: Intertidal Section, Santa Monica Bay Restoration Project. 1993.

Invited speaker, "Restoring coastal wetlands: Lessons from the San Onofre Nuclear Generating Station mitigation project", U.S. Army Corps of Engineers, Los Angeles Division. 1993.

Invited participant, Workshop on Restoration of Coastal Marine Habitats, Southwest Regional Marine Research Program. 1993.

Invited participant, Workshop on Coastal Toxicology, U.C. Toxic Substances Research and Teaching Program Coastal Toxicology Component. 1994.

Moderator, Workshop on Coastal Ecological Issues and Oil Production in California, U.S. Minerals Management Service and California State Lands Commission. 1994.

Invited participant, UC Conservation Biology Planning Meeting. 1996.

Invited participant, "Developing the Conceptual Basis for Restoration Biology," Workshop funded by the National Science Foundation at the National Center for Ecological Synthesis and Analysis. 1996.

Co-organizer, Workshop on an Interagency Rocky Intertidal Monitoring Network, UC Santa Barbara. 1997.

Invited speaker, "Wetland Mitigation Practices in the United States," and workshop participant. Workshop on Wetland Mitigation in Australia, Sydney, Australia. 1998.

Organizing Committee, Annual Ballona Wetlands Symposium: Restoring an Urban Coastal Wetland. 2000-2005.

Invited speaker, "Feasibility study for the restoration of natural resources in rocky intertidal habitats in Santa Monica Bay." 2004. Santa Monica Bay Restoration Commission Technical Advisory Committee.

Invited speaker, "Success of wetland mitigation projects in California." 2006. Southern California Wetlands Recovery Project Board of Governors Meeting, Santa Barbara.

Invited speaker, "Success of wetland mitigation projects in California." 2006. U.S. Environmental Protection Agency Workshop on Wetland Assessment, San Francisco.

Invited participant, "Tidal wetland carbon sequestration and greenhouse gas emissions model" National Center for Ecological Analysis and Synthesis (NCEAS) working group. 2010-11.

Invited participant, "Ecotoxicology of the Gulf Oil Spill: A Holistic Framework for Assessing Impacts." NCEAS working group. 2010.

Invited participant, "Novel bay and estuary ecosystems." Working group sponsored by the Sea Grant Healthy Coastal Ecosystems Program. 2011.

Invited participant, "Developing principles and good practice for expert judgments." NCEAS working group. 2012.

Invited participant, "State of Wetlands in the San Diego Region." Informational meeting of the San Diego Regional Water Quality Control Board. August 2014.

Invited participant, Workshop of Ocean Health. Environmental Law Center and the California Ocean Science Trust. September 2015.

Briefings and Testimony

Briefing to the California Coastal Commission, "Ecological evaluation of artificial reefs", San Francisco. 1988.

Testimony to the California Coastal Commission on alternatives for mitigating the coastal impacts of the San Onofre Nuclear Generating Station. 1989.

Testimony to the California Coastal Commission on Marine Review Committee recommendations for mitigating the coastal impacts of the San Onofre Nuclear Generating Station. 1991.

Testimony to the California Senate Committee on Energy and Public Utilities regarding the environmental impacts of the San Onofre Nuclear Generating Station. 1991.

Testimony to the California Regional Water Quality Control Board, San Diego Region, on techniques for mitigating the coastal impacts of the San Onofre Nuclear Generating Station. 1992.

Testimony to the California Legislative Oversight Committee on the California Ocean Resources Management Plan. 1993.

Briefing to the California Coastal Commission, Workshop on the San Onofre Nuclear Generating Station Mitigation Program. 1995.

Testimony to the California Senate Committee on Natural Resources and Wildlife, Oversight Hearing on the California Coastal Commission: What is the coastal impact of Southern California Edison's proposed change in mitigation for the San Onofre Nuclear Generating Station? 1996.

Testimony to the California Coastal Commission on the San Onofre Nuclear Generating Station Mitigation Program. 1996.

Testimony to the Malibu City Council on the evaluation of Marine Life Refuge alternatives. 1996.

Testimony to California Senate Natural Resources and Wildlife Committee and California Assembly Water, Parks and Wildlife Committee on SB 1006 and AB 374, to establish Malibu Marine Life Refuges. 1997.

Testimony to the California Energy Commission on the modernization of the Morro Bay Power Plant. 2002.

Testimony to the California Coastal Commission on the permit application to restore Malibu Lagoon. 2010.

Testimony to the California Coastal Commission on the mitigation plan for the Poseidon Desalination project in Carlsbad, California. 2011.

Testimony to the San Diego Regional Water Quality Control Board, "How to mitigate for wetland impacts." Special informational session, "State of Wetlands in the San Diego Region". September 2014.

Briefing to the State Water Resources Control Board and all nine Regional Water Quality Control Boards at their Wetlands Restoration and Action Plan meeting, "Effective monitoring of wetland restoration." August 2015.

Community Service Activities

Invited Lecturer, Elderhostel Group, Catalina Marine Science Center. 1986.

Faculty-in-Residence at Bruin Woods (presenting three lectures each year). 2000-2004.

Invited speaker at Tarzana Hospital. 2003.

Invited speaker, "Wetland Restoration in Southern California." Research and Education for Students and Teachers about the Ormond Beach Restoration (RESTOR) Project. 2011.

Invited speaker, "Restoring LA's Wetlands - The Road Ahead." Sierra Club, West Los Angeles Chapter. 2012.

Invited speaker for community forum on proposed stormwater biofilters in Oak Park, CA. Organized by Ventura County Supervisor Linda Parks. 2015.

Media interviews

Interview on artificial reefs with the Los Angeles Times. 1987.

Interview on decline of black abalone with KSBY-TV, KCOY-TV, KNX News Radio, KTMS Radio, Santa Barbara News-Press, Underwater USA, Sunset Magazine, A'lul'quoy, and Santa Barbara Independent. 1988

Interview on inventory of coastal resources in Santa Barbara County with KSBY radio. 1991.

Interview on effects of fire on Malibu Lagoon with the Heal the Bay newsletter. 1994.

Interview on inventory of coastal resources in Ventura and Los Angeles Counties and the northern Channel Islands with Ventura County Newspaper and the LA Times. 1994.

Press conference and interview on effects of Tapia Water Reclamation Facility on the ecology of the Malibu Creek Watershed and Malibu Lagoon. Malibu Times, 1994, LA Daily News and LA Times. 1995.

Interviews on Malibu Marine Life Refuge with the LA Times, Evening Outlook, Malibu Times, Outdoor News, Sacramento Bee. 1996. Interviews with Thousand Oaks Star. 1997.

Interview on Southern California Edison's proposed change in mitigation for the San Onofre Nuclear Generating Station with the LA Times. 1996.

Interview on impacts of San Onofre Nuclear Generating Station to marine mammals with the Sacramento Bee. 1997.

Interview on Malibu Watershed management and restoration alternatives with the Malibu Times. 1998.

Interview on Mugu Lagoon sewage pond restoration project with the Los Angeles Times. 1999.

Interview with LA Times (Westside Weekly) on Malibu Watershed management and restoration alternatives. 1999.

Interview with Barbara Dab, KPFK Radio, on Southern California wetlands.

Interview with KCSN-FM on Malibu Creek Watershed. 2000

Interviews with LA Times and Orange County Register on success of wetland mitigation projects. 2000.

Interview with KPCC/Public Radio on coastal ecological effects of urban runoff. 2001.

Interview with PBS/KCET on science and policy issues related to Klamath River water allocations to farmers and impacts on salmon and downstream fishermen. 2002.

Press conference on the restoration of Long Beach wetlands, and interview with KPCC/National Public Radio, LA Times and Long Beach Press-Telegram. 2003.

Interview with Canyon News on Malibu Lagoon Restoration Plan alternatives. 2004.

Interview with KPCC/Public Radio on the state of rocky intertidal resources in Santa Monica Bay, in association with the Santa Monica Bay Restoration Commission's State of the Bay conference. 2005.

Interview with KPCC/Public Radio on human impacts on rocky intertidal resources in Santa Monica Bay. 2005.

Quoted in Ventura County Star on the state of marine resources in southern California. 2005.

Interview with LA Times on the state of wetlands in Louisiana with respect to the damage caused by Hurricane Katrina. 2005.

Interview with *Science* magazine on Supreme Court decision regarding the Clean Water Act and the U.S. Army Corps of Engineers' jurisdiction over wetlands. 2006.

Interview with LA Times on the acquisition and restoration of the Los Cerritos wetlands. 2006.

Guest on live radio show (KPCC/Public Radio) with Patt Morrison discussing Bolsa Chica Wetland restoration project. 2006.

Interview with KPCC/Public Radio on Ballona Wetlands restoration project. 2006.

Interview with KPCC/Public Radio on the predicted effects of increased population in southern California on rocky intertidal resources (“Environmental Stresses Grow as the Population Does”). 2006.

Interview with American Physical Society (APS) News on environmental applications of sensor networks. 2006.

Interview with *Environmental Science and Technology* on U.S. EPA and Army Corps of Engineers Guidance document on U.S. Supreme Court *Rapanos* decision. 2007.

Interview with KTLA television news on the risks of building in California based on the then-widespread wildfires. 2007.

Interview with San Francisco Chronicle on the long-term ecological effects of the 58,000 gallon spill of bunker oil in San Francisco Bay. 2007

Interview with UCLA’s Daily Bruin on global climate change. 2008.

Interview with San Diego Union-Tribune on the Wheeler North Reef, an artificial reef constructed off San Diego County as mitigation for the marine environmental impacts of the San Onofre Nuclear Generating Station. 2008.

Interview with KFVB radio on the ecological effects of the fuel oil spill in Uruguay. 2008.

Interview with *Which Way LA* (KCRW Public Radio) on the completion of the Wheeler North Reef. 2008.

Interview with KFVB radio on Governor’s Schwarzenegger’s participation in the Governors’ Global Climate Summit. 2008.

Expert reviewer, A Moment in Science (an internationally syndicated radio program) on program covering naturally occurring oil spills. 2009.

Interview with Malibu Times on study of bacteria in Malibu Lagoon during wet and dry weather. 2009.

Interview with Los Angeles Times on study of bacteria in Malibu Lagoon during wet and dry weather. 2009.

Interview with UCLA’s Daily Bruin on attitudes about global climate change. 2009.

Interview with Malibu Magazine about bacteria in Malibu Lagoon during wet and dry weather. 2009.

Interviews with ABC News, Associated Press, the New Yorker, Bloomberg News, Xinhua News, Agence France-Presse, Daily Bruin, Periódica Excelsior Newspaper (Mexico), Australian Broadcasting Corporation on ecological impacts of Gulf of Mexico oil spill, with comparisons to Exxon Valdez oil spill. On-camera interviews on ABC World News with Diane Sawyer (3 nights). On air interviews with Australian Broadcasting Company World News radio program (2 times) and Iranian national radio. Quoted in Vancouver Sun, Terra Daily, Daily Bruin, Boston Globe, and numerous web sites including Greenwire. 2010-2011.

Interviews on using human and pet hair as absorbent in oil spills. Quoted in the Florida Sun Sentinel, LaCrosse Tribune, Sacramento Bee, LA Times, and many web sites. 2010.

Interview with LA Times on the controversy over the planned restoration of Malibu Lagoon. 2010.

Interview with the Ventura County Star about study of contaminants in the Santa Clara Estuary. 2010.

Interview (on-air) with Australian Broadcasting Corporation on the state of the Gulf of Mexico ecosystem one year after the BP oil spill. 2011.

Interviews with Outside Magazine and LA Weekly on the controversy over the planned restoration of Malibu Lagoon. Quoted in LA Weekly. 2011.

Interview (on air) with KPCC on the controversy over the Malibu Lagoon restoration project. 2012.

Interview with LA Times on proposed new oil drilling in Hermosa Beach. 2013.

Interview with UCLA Magazine on water management in Los Angeles. 2013; quoted in October 2013 issue.

Interview with San Diego Union Tribune on consequences of San Onofre Nuclear Generating Station decommissioning on marine ecosystem. 2014.

Interviews on seastar wasting disease with KPCC Public Radio, documentary filmmaker. 2014.

Interview with LA Times on seastar wasting disease. 2014; quoted in article published 11-27-14.

Interview (on air) with KCLU Radio on seastar wasting disease. 2014, aired 1-5-14.

Interview with Guardian on seastar wasting disease. 2015; quoted in article published 5-3-15.

Media coverage of threat to North American salamanders and call for temporary ban of live salamander imports, linked to publication of Science paper (Yap et al. 2015). Print, online and radio pieces in more than 150 outlets, including US News and World Report, Los Angeles Times, New York Times, Christian Science Monitor, NPR, UPI, The Guardian, Discovery News, and Wired. July 2015.

Interview with KPCC/Public Radio on the State of the Bay report for Santa Monica Bay. 2015. Aired September 9, 2015; quoted on website.

PUBLICATIONS

*indicates mentored student

**indicated mentored postdoctoral scholar

A. PEER-REVIEWED PAPERS

Published

1. Ambrose, R.F. and T.E. Meehan. 1977. Aggressive behavior of *Perognathus parvus* and *Peromyscus maniculatus*. Journal of Mammalogy 58: 665-668.
2. Meehan, T.E., P.W. Rundel, R. Ambrose, G. Baker and A. Rappoport. 1977. The influence of intensive selective browsing by pocket mice (*Perognathus*) on the spatial distribution of *Polygala deserticum* in Baja California. American Midland Naturalist 97: 489-495.
3. Ambrose, R.F. 1981. Observations on the embryonic development and early post-embryonic behavior of *Octopus bimaculatus* (Mollusca: Cephalopoda). Veliger 24: 139-146.
4. Ambrose, R.F. and B.V. Nelson. 1982. Inhibition of giant kelp recruitment by an introduced brown alga. Botanica Marina 25: 265-267.
5. Ambrose, R.F. 1982. Shelter utilization by the molluscan cephalopod *Octopus bimaculatus*. Marine Ecology Progress Series 7: 67-73.
6. Ambrose, R.F. and B.V. Nelson. 1983. Predation by *Octopus vulgaris* in the Mediterranean. P.S.Z.N. I: Marine Ecology 4: 251-261.
7. Ambrose, R.F. 1983. Midden formation by octopuses: the role of biotic and abiotic factors. Marine Behaviour and Physiology 10: 137-144.
8. Hartwick, E.B., R.F. Ambrose and S.M.C. Robinson. 1984. Den utilization and movements of tagged *Octopus dofleini*. Marine Behaviour and Physiology 11: 95-110.
9. Hartwick, E.B., R.F. Ambrose and S.M.C. Robinson. 1984. Dynamics of shallow-water populations of *Octopus dofleini*. Marine Biology 82: 65-72.
10. Ambrose, R.F. 1984. Food preferences, prey availability and the diet of *Octopus bimaculatus* Verrill. Journal of Experimental Marine Biology and Ecology 77: 29-44.
11. Ambrose, R.F. 1986. Effects of octopus predation on motile invertebrates in a rocky subtidal community. Marine Ecology Progress Series 30: 261-273.
12. Coyer, J.A., J.M. Engle, R.F. Ambrose and B.V. Nelson. 1987. Utilization of purple and red sea urchins (*Strongylocentrotus purpuratus* Stimpson and *S. franciscanus* Agassiz) as food by the white sea urchin (*Lytechinus anamesus* Clark) in the field and laboratory. Journal of Experimental Marine Biology and Ecology 105: 21-38.
13. Ambrose, R.F., B.J. Leighton and E.B. Hartwick. 1988. Characterization of boreholes by *Octopus dofleini* (Wulker) in the bivalve *Saxidomus giganteus* (Deshayes). Journal of Zoology (London) 214: 491-503.

14. Hartwick, E.B., S.M.C. Robinson, R.F. Ambrose, D. Trotter and M. Walsh. 1988. Inshore-offshore comparison of *Octopus dofleini* with special reference to abundance, growth and condition during winter. *Malacologia* 29: 57-68.
15. Ambrose, R.F. 1988. Population dynamics of *Octopus bimaculatus*: influence of life history patterns, synchronous reproduction, and recruitment. *Malacologia* 29: 23-39.
16. Ambrose, R.F. and S.L. Swarbrick. 1989. Comparison of fish assemblages on artificial and natural reefs off the coast of Southern California. *Bulletin of Marine Science* 44: 718-733.
17. Ambrose, R.F. and T.W. Anderson. 1990. The influence of an artificial reef on the surrounding infaunal community. *Marine Biology* 107: 41-52.
18. Holbrook, S.J., R.J. Schmitt and R.F. Ambrose. 1990. Biogenic habitat structure and characteristics of temperate reef fish assemblages. *Australian Journal of Ecology* 15: 489-503. (Also published in: *Ecology of Temperate Reefs*, ed. by M.J. Keough, G. Quinn and A. King. Blackwell Scientific Publications, Melbourne.)
19. Coyer, J.A., R.F. Ambrose, J.M. Engle and J.C. Carroll. 1993. Interactions between corals and algae on a temperate zone rocky reef: mediation by sea urchins. *Journal of Experimental Marine Biology and Ecology* 167: 21-37.
20. Ambrose, R.F., J.A. Coyer, J.M. Engle and B.V. Nelson. 1993. Changes in urchin and kelp densities at Anacapa Island, California. In: F.G. Hochberg, ed. *Third California Islands Symposium: Recent Advances in Research on the California Islands*. Santa Barbara Museum of Natural History, Santa Barbara, CA. pp. 199-209.
21. Ambrose, R.F. 1994. Mitigating the effects of a coastal power plant on a kelp forest community: Rationale and requirements for an artificial reef. *Bulletin of Marine Science* 55 (2): 694-708.
22. Johnson, T.D., A.M. Barnett, E.E. DeMartini, L.L. Craft, R.F. Ambrose and L.J. Purcell. 1994. Fish production and habitat utilization of a southern California artificial reef. *Bulletin of Marine Science* 55 (2): 709-723.
23. DeMartini, E.E., A.M. Barnett, T.D. Johnson and R.F. Ambrose. 1994. Growth and production estimates for biomass-dominant fishes on a southern California artificial reef. *Bulletin of Marine Science* 55 (2): 484-500.
24. Holbrook, S.J., S.L. Swarbrick, R.J. Schmitt and R.F. Ambrose. 1994. Reef architecture and reef fish: correlates of population densities with attributes of subtidal rocky environments. pp. 99-106 in Battershill, C.M. D.R. Schiel, G.P. Jones, R.G. Creese and A.B. MacDiarmid (eds.) *Proceedings of the Second International Temperate Reef Symposium*. National Institute of Water and atmospheric Research, New Zealand Oceanographic Institute, Wellington. 252 pp.
25. Altstatt, J.A., R.F. Ambrose, J.M. Engle, P.L. Haaker, K.D. Lafferty** and P.T. Raimondi. 1996. Recent declines of black abalone *Haliotis cracherodii* on the mainland coast of central California. *Marine Ecology Progress Series* 142: 185-192.
26. Palmer, M.A., R.F. Ambrose and N.L. Poff. 1997. Ecological theory and community restoration ecology. *Restoration Ecology* 5: 291-300.

27. Stein, E.D.* and R.F. Ambrose. 1998. Cumulative impacts of Section 404 Clean Water Act permitting on the riparian habitat of the Santa Margarita, CA watershed. *Wetlands* 18: 379-392.
28. Stein, E.D.* and R.F. Ambrose. 1998. A rapid impact assessment method for use in a regulatory context. *Wetlands* 18: 393-408.
29. Ambrose, R.F. and D. Meffert*. 1999. Fish assemblage dynamics in Malibu Lagoon, a small hydrologically altered estuary in southern California. *Wetlands* 19(2): 327-340.
30. Lafferty, K.D.** , C.C. Swift and R.F. Ambrose. 1999. Post flood persistence and recolonization of endangered tidewater goby populations. *North American Journal of Fisheries Management* 19: 618-622.
31. Lafferty, K.** , C. Swift and R.F. Ambrose. 1999. Extirpation and recovery of local populations of the endangered tidewater goby, *Eucyclogobius newberryi*. *Conservation Biology* 13: 1447-1453.
32. Murray, S.N., R.F. Ambrose, J.A. Bohnsack, L.W. Botsford, M.H. Carr, G.E. Davis, P.K. Dayton, D. Gotshall, D.R. Gunderson, M.A. Hixon, J. Lubchenco, M. Mangel, A. MacCall, D.A. McArdle, J.C. Ogden, J. Roughgarden, R.M. Starr, M.J. Tegner and M.M. Yoklavich. 1999. No-take reserve networks: Protection for fishery populations and marine ecosystems. *Fisheries* 24: 11-25.
33. Miller, A.W.* and R.F. Ambrose. 2000. Optimum sampling of patchy distributions: Comparison of different sampling designs in rocky intertidal habitats. *Marine Ecology Progress Series* 196: 1-14.
34. Stein, E.D.*, F. Tabatabai and R.F. Ambrose. 2000. Wetland mitigation banking: a framework for crediting and debiting. *Environmental Management* 26: 233-250.
35. Ambrose, R.F. 2000. Wetland mitigation in the United States: Assessing the success of mitigation policies. *Wetlands (Australia)* 19: 1-27.
36. Moeller, A.* , R.F. Ambrose and S.S. Que Hee. 2001. A comparison of techniques for preparing fish fillet for ICP-AES multielemental analysis and the microwave digestion of whole fish. *Food Additives and Contaminants* 18: 19-29.
37. Cohen, T.* , S.S. Que Hee and R.F. Ambrose. 2001. Comparison of trace metal concentrations in fish and invertebrates in three Southern California wetlands. *Marine Pollution Bulletin* 42: 224-232.
38. Boyer, K.E., P. Fong, R.R. Vance and R.F. Ambrose. 2001. *Salicornia virginica* in a southern California salt marsh: seasonal patterns and a nutrient enrichment experiment. *Wetlands* 21 (3): 315-326.
39. Stein, E.D.* and R.F. Ambrose. 2001. Landscape-scale analysis and management of cumulative impacts to riparian ecosystems: Past, present and future. *Journal of American Water Resources Association* 37 (6): 1597-1614.
40. Downs, T.* and R. Ambrose. 2001. Syntropic ecotoxicology: a heuristic model for understanding the vulnerability of ecological systems to stress. *Ecosystem Health* 7: 266-283.

41. Sudol, M.F.* and R.F. Ambrose. 2002. The Clean Water Act and habitat replacement: Evaluation of mitigation sites in Orange County, California. *Environmental Management* 30: 727-734.
42. Raimondi P., M. Wilson, R. Ambrose, J. Engle and T. Minchinton. 2002. Continued declines of black abalone along the coast of California: Are mass mortalities related to El Niño events? *Marine Ecology Progress Series* 242: 143-152.
43. Moeller, A.*, S.D. MacNeil*, R.F. Ambrose and S.S. Que Hee. 2003. Elements in fish of Malibu Creek and Malibu Lagoon near Los Angeles, California. *Marine Pollution Bulletin* 46: 424-429.
44. Forrester, G.E., B.I. Fredericks, D. Gerdeman, B. Evans, M.A. Steele, K. Zayed, L.E. Schweitzer, I.H. Suffet, R.R. Vance and R.F. Ambrose. 2003. Correspondence between field-measured growth rates of fish from several California estuaries and the inferred toxicity of multiple sediment contaminants. *Marine Environmental Research* 56: 423-442.
45. Vance, R.R., R.F. Ambrose, S.S. Anderson*, S. MacNeil*, T. McPherson*, I. Beers* and T.W. Keeney. 2003. Effects of sewage sludge on the growth of potted salt marsh plants exposed to natural tidal inundation. *Restoration Ecology* 11: 155-167.
46. Shuman, C.S.* and R.F. Ambrose. 2003. A comparison of remote sensing and ground-based methods for monitoring wetland restoration success. *Restoration Ecology* 11: 325-333.
47. Page, H.M., S. Schroeter, D. Reed, R.F. Ambrose, J. Callaway and J. Dixon. 2003. An inexpensive method to identify the elevation of tidally inundated habitat in coastal wetlands. *Bulletin of the Southern California Academy of Sciences* 102: 130-142.
48. Shuman, C.S.*, G. Hodgson, and R.F. Ambrose. 2004. Managing the Marine Aquarium Trade: Is Eco-Certification the Answer? *Environmental Conservation* 31(4): 339-348.
49. Shuman, C.S.*, G. Hodgson, and R.F. Ambrose. 2005. Population Impacts of Collecting Sea Anemones and Anemone fish for the Marine Aquarium Trade in the Philippines. *Coral Reefs* 24: 564-573.
50. Lin, C.J.* and R.F. Ambrose. 2005. Relations between Fish Assemblages and Urbanization in Southern California Coastal Streams. In: Brown, L.R., R.H. Gray, R.M. Hughes and M. Meador, eds. *Effects of Urbanization on Stream Ecosystems*. American Fisheries Society, Maryland. 423 pp. (American Fisheries Society Symposium 47: 229–238.)
51. Reed, D.C., S.C. Schroeter, D. Huang, T.W. Anderson, and R.F. Ambrose. 2006. Quantitative Assessment of Different Artificial Reef Designs in Mitigating Losses to Kelp Forest Fishes. *Bulletin of Marine Science* 78: 133-150.
52. Evanson, M.* and R.F. Ambrose. 2006. Sources and growth dynamics of fecal indicator bacteria in a coastal wetland system and potential impacts to adjacent waters. *Water Research* 40: 475-486.
53. Smith, J.R.*, R.F. Ambrose, and P. Fong. 2006. Dramatic declines in mussel bed community diversity: Response to climate change? *Ecology* 87: 1153-1161.

54. Smith, J.R.*, R.F. Ambrose, and P. Fong. 2006. Long-term change in mussel (*Mytilus californianus* Conrad) populations along the wave-exposed coast of California. *Marine Biology* 149: 537-545.
55. Armitage, A.R.*, K.E. Boyer, R.R. Vance, and R.F. Ambrose. 2006. Restoring assemblages of salt marsh halophytes in the presence of a rapidly colonizing dominant species. *Wetlands* 26: 667-676.
56. Sagarin, R.D.***, R.F. Ambrose, B.J. Becker, J.M. Engle, J. Kido, S.F. Lee*, C.M. Miner, S.N. Murray, P.T. Raimondi, D.V. Richards, C. Roe. 2007. Ecological impacts on the limpet *Lottia gigantea* populations: human pressure over a broad scale on islands and mainland intertidal zones. *Marine Biology* 150: 399-415.
57. Armitage, A.R.*, S.M. Jensen*, J.E. Yoon, and R.F. Ambrose. 2007. Wintering shorebird assemblages and behavior in restored tidal wetlands in southern California. *Restoration Ecology* 15: 139-148.
58. Harmon, T.C., R.F. Ambrose, R.M. Gilbert*, J.C. Fisher, M. Stealey, and W.J. Kaiser. 2007. High Resolution River Hydraulic and Water Quality Characterization Using Rapidly Deployable Networked Infomechanical Systems (NIMS RD). *Environmental Engineering Science* 24: 151-159.
59. Raimondi, P., R. D. Sagarin**, R. Ambrose, C. Bell, M. George, S. Lee*, D. Lohse, C.M. Miner, and S. Murray. 2007. Consistent frequency of color morphs in the sea star *Pisaster ochraceus* (Echinodermata: Asteroidea) across open-coast habitats in the northeastern Pacific. *Pacific Science* 61: 197-206.
60. Pankratz, S.*, T. Young*, H. Cuevas-Arellano, R. Kumar, R.F. Ambrose and I.H. Suffet. 2007. The ecological value of constructed wetlands for treating urban run-off. *Water Science and Technology* 55: 63-69.
61. Miller, A.W.*, G.M. Ruiz, M.S. Minton and R.F. Ambrose. 2007. Differentiating successful and failed molluscan invaders in marine ecosystems. *Marine Ecology Progress Series* 332: 41-51.
62. Swenson, D.P.* and R.F. Ambrose. 2007. A Spatial Analysis of Cumulative Habitat Loss in Southern California under the Clean Water Act Section 404 Program. *Landscape and Urban Planning* 82: 41-55.
63. Tetreault, I.* and R.F. Ambrose. 2007. Temperate marine reserves enhance targeted but not untargeted fishes in multiple no-take MPAs. *Ecological Applications* 17: 2251-2267.
64. Smith, J.R.*, P. Fong and R.F. Ambrose. 2008. The impacts of human visitation on mussel bed communities along the California coast: Are regulatory marine reserves effective in protecting these communities? *Environmental Management* 41: 599-612.
65. Rothenberg, S.E.*, R.F. Ambrose and J.A. Jay. 2008. Evaluating the potential efficacy of mercury Total Maximum Daily Loads on aqueous methylmercury levels in four coastal watersheds. *Environmental Science and Technology* 42: 5400-5406.
66. Rothenberg, S.E.*, R.F. Ambrose and J.A. Jay. 2008. Mercury cycling in surface water, pore water and sediments of Mugu Lagoon, CA., USA. *Environmental Pollution* 154: 32-45.

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68. Willette, D.A.* and R.F. Ambrose. 2009. The distribution and expansion of the invasive seagrass *Halophila stipulacea* in Dominica, West Indies, with a preliminary report from St. Lucia. *Aquatic Botany* 91:137-142.
69. Myers, M.R.* and R.F. Ambrose. 2009. Differences in benthic cover inside and outside marine protected areas on the Great Barrier Reef: influence of protection or disturbance history? *Aquatic Conservation: Marine and Freshwater Ecosystems* 19: 736-747.
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71. Coffman, G.C.*, R.F. Ambrose and P.W. Rundel. 2011. Wildfire promotes dominance by the invasive Giant Reed (*Arundo donax*) in riparian ecosystems. *Biological Invasions* 12: 2723-2734.
72. Peterson, C.H., S.S. Anderson, G.N. Cherr, R.F. Ambrose, S. Anghera, S. Bay, M. Blum, R. Condon, T.A. Dean, M. Graham, M. Guzy, S. Hampton, S. Joye, J. Lambrinos, B. Mate, D. Meffert, S.P. Powers, P. Somasundaran, R.B. Spies, C.M. Taylor, R. Tjeerdema, and E.E. Adams. 2012. A Tale of Two Spills: Novel Science and Policy Implications of an Emerging New Oil Spill Model. *Bioscience* 62: 461-469.
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74. Willette, D.A.* and R.F. Ambrose. 2012. Effects of the invasive seagrass *Halophila stipulacea* on the native seagrass, *Syringodium filiforme*, and associated fish and epibiota communities in the eastern Caribbean. *Aquatic Botany* 103: 74-82.
75. Altstatt, J., R. Ambrose, J. Carroll, J. Coyer, J. Wible and J. Engle. 2014. Eelgrass meadows return to Frenchy’s Cove, Anacapa Island: Recovery ten years after successful transplantation. *Monographs of the Western North America Naturalist* 7: 500-517.
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