

## Andrew N. Cohen

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## Education

B.A. *cum laude*, Environmental Sciences, 1985, University of California, Berkeley  
M.S., Energy and Resources, 1989, University of California, Berkeley  
Ph.D., Energy and Resources, 1996, University of California, Berkeley

## Positions Held

2003-present Senior Scientist and Director, Biological Invasions Program, San Francisco Estuary Institute, Oakland CA  
1997-2003 Environmental Scientist and Director, Biological Invasions Program, San Francisco Estuary Institute, Oakland CA  
1993-1996 Research Assistant, Maritime Studies Program, Williams College-Mystic Seaport, Mystic CT  
1991-1994 Director and Vice-President, East Bay Municipal Utility District, Oakland CA  
1988-1989 Executive Director, Urban Creeks Council, Berkeley CA

## Technical Publications on Marine Science and Policy

Minchin, D., S. Gollasch, A.N. Cohen and S. Olenin (in press). Characterizing vectors of marine invasions. In: *Marine Bioinvasions: Ecology, Conservation and Management Perspectives*. G. Rilov and J. Crooks (eds.), Springer, Heidelberg, Germany.

Cohen, A.N. (in press). Order Tanaidacea. In: *The Light & Smith Manual: Intertidal Invertebrates of the California and Oregon Coasts*. J.T. Carlton (ed.), University of California Press, Berkeley, CA.

Carlton, J.T. and A.N. Cohen (in press). Introduced Marine and Estuarine Invertebrates. In: *The Light & Smith Manual: Intertidal Invertebrates of the California and Oregon Coasts*. J.T. Carlton (ed.), University of California Press, Berkeley, CA.

Burkholder, J.M., G.M. Hallegraeff, G. Melia, A.N. Cohen, H.A. Bowers, D.W. Oldach, M.W. Parrowa, M.J. Sullivan, P.V. Zimba, E.H. Allen and M.A. Mallin. 2007. Phytoplankton and bacterial assemblages in ballast water of U.S. military ships as a function of port of origin, voyage time, and ocean exchange practices. *Harmful Algae* 6: 486-518.

Bullard, S.G., G. Lambert, M.R. Carman, J. Byrnes, R.B. Whitlatch, G. Ruiz, R.J. Miller, L. Harris, P.C. Valentine, J.S. Collie, J. Pederson, D.C. McNaught, A.N. Cohen, R.G. Asch, J. Dijkstra, and K. Heinonen. 2007. The colonial ascidian *Didemnum* sp. A: Current distribution, basic biology, and potential threat to marine communities of the northeast and west coasts of North America. *Journal of Experimental Marine Biology and Ecology* 342: 99-108.

- Cohen, A.N. and C.J. Zabin. 2006. *Inspection for Live Marine Invertebrates in an Oyster Shell Pile at Drakes Bay Oyster Company*. San Francisco Estuary Institute, Oakland, CA.
- Gollasch, S., B.S. Galil and A.N. Cohen (eds.). 2006. *Bridging Divides: Maritime Canals as Invasion Corridors*, Springer, Dordrecht, The Netherlands.
- Cohen, A.N. 2006. The Panama Canal: Cutting a canal through Central America. In: *Bridging Divides: Maritime Canals as Invasion Corridors*. S. Gollasch, B.S. Galil & A.N. Cohen (eds.), Springer, Dordrecht, The Netherlands.
- Cohen, A.N. 2006. The Panama Canal: Species introductions and the Panama Canal. In: *Bridging Divides: Maritime Canals as Invasion Corridors*. S. Gollasch, B.S. Galil & A.N. Cohen (eds.), Springer, Dordrecht, The Netherlands.
- Takekawa, J. Y., I. Woo, H. Spautz, N. Nur, J. L. Grenier, K. Malamud-Roam, J. C. Nordby, A. N. Cohen, F. Malamud-Roam, and S. E. Wainwright-De La Cruz. 2006. Environmental threats to tidal marsh vertebrates in the San Francisco Bay estuary. *Studies in Avian Biology* 32: 176-197.
- Cohen, A.N., L.H. Harris, B.L. Bingham, J.T. Carlton, J.W. Chapman, C.C. Lambert, G. Lambert, J.C. Ljubenkov, S.N. Murray, L.C. Rao, K. Reardon and E. Schwindt. 2005. Rapid Assessment Survey for exotic organisms in southern California bays and harbors, and abundance in port and non-port areas. *Biological Invasions* 7(6): 995-1002.
- Cohen, A.N. 2005. *Overview of 2004/05 Rapid Assessment Shore and Channel Surveys for Exotic Species in San Francisco Bay*. Final Report for the California State Coastal Conservancy, Association of Bay Area Governments/San Francisco Bay-Delta Science Consortium, National Geographic Society and Rose Foundation. San Francisco Estuary Institute, Oakland, CA.
- Cohen, A.N., D.R. Calder, J.T. Carlton, J.W. Chapman, L.H. Harris, T. Kitayama, C.C. Lambert, G. Lambert, C. Piotrowski, M. Shouse and L.A. Solórzano. 2005. *Rapid Assessment Shore Survey for Exotic Species in San Francisco Bay - May 2004*. Final Report for the California State Coastal Conservancy, Association of Bay Area Governments/San Francisco Bay-Delta Science Consortium, National Geographic Society and Rose Foundation. San Francisco Estuary Institute, Oakland, CA.
- Cohen, A.N. and J.W. Chapman. 2005. *Rapid Assessment Channel Survey for Exotic Species in San Francisco Bay - November 2005*. Final Report for the California State Coastal Conservancy. San Francisco Estuary Institute, Oakland, CA.
- Cohen, A.N. 2005. *Bay Science: A Report to the Science Content Committee of The Bay Center*. San Francisco Estuary Institute, Oakland, CA.
- Holmes, M., Bolland, D., Cohen, A., Fox, A., Herod, J., Jennings, W., Moore, S., Newkirk, S., Ruiz, G., Simkanin, C., Talley, D. and K. Ward. 2005. *Ballast Water Discharge Standards: Report and Recommendation of the California Advisory Panel on Ballast Water Performance Standards*. A Report for the California State Lands Commission and the California Legislature.
- Cohen, A.N. 2005. *A Review of Zebra Mussels' Environmental Requirements*. A report for the California Department of Water Resources, Sacramento CA. San Francisco Estuary Institute, Oakland, CA.
- Cohen, A.N. and P.B. Moyle. 2004. Summary of data and analyses indicating that exotic species have impaired the beneficial uses of certain California waters. Submitted to the California State Water Resources Control Board, Sacramento, CA.
- Cohen, A.N. 2004. *An Exotic Species Detection Program for Puget Sound*. Prepared for the Puget Sound Action Team, Olympia, WA. San Francisco Estuary Institute, Oakland, CA.
- Cohen, A.N. 2004. *An Exotic Species Detection Program for the Lower Columbia River Estuary*. Prepared for the Lower Columbia River Estuary Partnership, Portland, OR. San Francisco Estuary Institute, Oakland, CA.
- Cohen, A.N. 2004. *An Exotic Species Detection Program for Tillamook Bay*. Prepared for the Tillamook Estuaries Partnership, Garibaldi, OR. San Francisco Estuary Institute, Oakland, CA.
- Carlton, J.T. and A.N. Cohen. 2003. Episodic global dispersal in shallow water marine organisms: the case history of the European shore crabs *Carcinus maenas* and *Carcinus aestuarii*, *Journal of Biogeography* 30: 1809-1820.

- Cohen, A.N. 2003. On mitten crabs and lung flukes. *IEP Newsletter* 16(2): 48-51.
- Cohen, A.N. and S.K. Webb. 2002. *Biological Invasions in Aquatic Ecosystems: Impacts on Restoration and Potential for Control*, Proceedings of a Workshop, April 25, 1998, Sacramento, California. San Francisco Estuary Institute, Oakland, California.
- Cohen, A.N. 2002. The release of pest species by marine aquaculture: lessons from a South African parasite introduced into California waters. Pages 9-13 in: *Invasions in Aquatic Ecosystems: Impacts on Restoration and Potential for Control*, Proceedings of a Workshop, April 25, 1998, Sacramento, California, A.N. Cohen, and S.K. Webb (eds.). San Francisco Estuary Institute, Oakland, California.
- Silva, P.C., R.A. Woodfield, A.N. Cohen, L.H. Harris and J.H.R. Goddard. 2002. First report of the Asian kelp *Undaria pinnatifida* in the Northeastern Pacific Ocean. *Biological Invasions* 4(3): 333.
- Cohen, A.N. 2002. Success factors in the establishment of human-dispersed organisms. Pages 374-394 in: *Dispersal Ecology*. J.M. Bullock, R.E. Kenward and R.S. Hails (eds.). Blackwell Publishing, Oxford, for the British Ecological Society, London.
- Cohen, A.N. and A. Weinstein. 2001. *The Potential Distribution of Chinese Mitten Crabs (Eriocheir sinensis) in selected waters of the Western United States with U.S. Bureau of Reclamation Facilities*. United States Department of the Interior, Bureau of Reclamation, Mid-Pacific Region and the Technical Service Center, Tracy Fish Collection Facilities Studies Vol. 21.
- Cohen, A.N., H. Berry, C. Mills, D. Milne, K. Britton-Simmons, M. Wonham, D. Secord, J.A. Barkas, B. Bingham, B. Bookheim, J. Byers, J.W. Chapman, J. Cordell, B. Dumbauld, A. Fukuyama, L.H. Harris, A. Kohn, K. Li, T. Mumford, V. Radashevsky, A. Sewell, K. Welch. 2001. *Report of the Washington State Exotics Expedition 2000: A Rapid Assessment Survey of Exotic Species in the Shallow Waters of Elliot Bay, Totten and Eld Inlets, and Willapa Bay*. Nearshore Habitat Program, Washington State Department of Natural Resources, Olympia WA.
- A.N. Cohen and A. Weinstein. 2001. *Zebra Mussel's Calcium Threshold and Implications for its Potential Distribution in North America*. A report for the California Sea Grant College Program, La Jolla CA, and the Department of Energy, National Energy Technology Center, Morgantown WV. San Francisco Estuary Institute, Richmond CA.
- Cohen, A.N., A. Weinstein, M.A. Emmett, W. Lau and J.T. Carlton. 2001. *Investigations into the Introduction of Non-indigenous Marine Organisms via the Cross-Continental Trade in Marine Baitworms*. A report for the U.S. Fish and Wildlife Service, San Francisco Bay Program, Sacramento CA. San Francisco Estuary Institute, Richmond CA.
- Cohen, A.N. and B. Foster. 2000. The regulation of biological pollution: Preventing exotic species invasions from ballast water discharged into California coastal waters. *Golden Gate University Law Review* 30(4): 787-883.
- Cohen, A. N. 2000. Invasions status and policy on the U. S. west coast. Pages 440-45 in: *Proc. First Nat'l Conf. on Marine Bioinvasions*, Jan. 24-27, 1999, Cambridge MA, J. Pederson (ed.). MIT Sea Grant College Program, Cambridge MA.
- Mills, C.E., A.N. Cohen, H.K. Berry, M.J. Wonham, B. Bingham, B. Bookheim, J.T. Carlton, J.W. Chapman, L.H. Harris, T. Klinger, A. Kohn, C. Lambert, G. Lambert, K. Li, D. Secord and J. Toft. 2000. The 1998 Puget Sound Expedition: a rapid assessment survey for nonindigenous species in the shallow waters of Puget Sound. Pages 130-183 in: *Proc. First Nat'l Conf. on Marine Bioinvasions*, Jan. 24-27, 1999, Cambridge MA, J. Pederson (ed.). MIT Sea Grant College Program, Cambridge MA.
- McGann, M., D. Sloan and A.N. Cohen. 2000. Invasion by a Japanese marine microorganism in western North America. *Hydrobiologia* 421(1-3): 25-30.
- Cohen, A.N. 1998. *Ships' Ballast Water and the Introduction of Exotic Organisms into the San Francisco Estuary: Current Status of the Problem and Options for Management*. CALFED and California Urban Water Agencies/San Francisco Estuary Institute, Richmond CA.
- Cohen, A.N. 1998. Exotic organisms. Pages 5-9 to 5-13 in: *California's Emerging Environmental Challenges; Proceedings of a Workshop*, June 25-26, 1998, Sacramento CA, C. Milanese, D. Morry, T. Parker and K. Ricker (eds.). California Environmental Protection Agency/Office of Environmental Health Hazard Assessment, Sacramento CA.

Cohen, A.N., C.E. Mills, H. Berry, M.J. Wonham, B. Bingham, B. Bookheim, J.T. Carlton, J.W. Chapman, J.R. Cordell, L.H. Harris, T. Klinger, A. Kohn, C.C. Lambert, G. Lambert, K. Li, D. Secord and J. Toft. 1998. *Report of the Puget Sound Expedition, September 8-16, 1998; A Rapid Assessment Survey of Nonindigenous Species in the Shallow Waters of Puget Sound*. Washington State Department of Natural Resources, Olympia WA and United States Fish and Wildlife Service, Olympia WA.

Cohen, A.N. 1998. Biological invasions and opportunities for their regulation on the west coast of the United States. Pages 96-99 in: *Proc. Eighth Int'l Zebra Mussel and Aquatic Nuisance Species Conf.*, Mar. 16-19, 1998, Sacramento CA, J.L. Cassell and P.G. Olin (eds.). California Sea Grant College System, University of California, La Jolla CA.

Cohen, A.N. 1998. The invasion of the Pacific Coast by the European green crab *Carcinus maenas*. Pages 173-177 in: *Proc. Eighth Int'l Zebra Mussel and Aquatic Nuisance Species Conf.*, Mar. 16-19, 1998, Sacramento CA, J.L. Cassell and P.G. Olin (eds.). California Sea Grant College System, University of California, La Jolla CA.

Grossinger, R., J. Alexander, A.N. Cohen and J.T. Collins. 1998. *Introduced Marsh Plants in the San Francisco Estuary: Regional Distribution and Priorities for Control*. CALFED and California Urban Water Agencies/San Francisco Estuary Institute, Richmond CA.

Carlton, J.T. and A.N. Cohen. 1998. Periwinkle's progress: the Atlantic snail *Littorina saxatilis* (Mollusca: Gastropoda) establishes a colony on Pacific shores, *Veliger* 41(4): 333-338.

Cohen, A.N. 1998. The exotic species threat to California's coastal resources. *California and the World Ocean '97*, American Society of Civil Engineers, Reston, VA, pp. 1418-1426.

Cohen, A.N. and J.T. Carlton. 1998. Accelerating invasion rate in a highly invaded estuary. *Science* 279: 555-558.

Weinstein, A. and A.N. Cohen. 1998. The potential distribution and abundance of zebra mussels in California. *Dreissena!* (New York Sea Grant) 9(1): 1-3.

Cole, B. and A.N. Cohen. 1998. Red tide in Berkeley Marina raises concern for toxic blooms in Central Bay. *Interagency Ecological Program Newsletter* 11(1): 11-13.

Cohen, A.N. and A. Weinstein. 1998. *The Potential Distribution and Abundance of Zebra Mussels in California*. CALFED and California Urban Water Agencies/San Francisco Estuary Inst., Richmond CA.

Cohen, A.N. and A. Weinstein. 1998. *Methods and Data for Analysis of Potential Distribution and Abundance of Zebra Mussels in California*. CALFED and California Urban Water Agencies/ San Francisco Estuary Institute, Richmond CA.

Cohen, A.N. 1998. Biological invasions in the San Francisco Estuary. Pages 7-8 in: *Marine and Aquatic Nonindigenous Species in California: An Assessment of Current Status and Research Needs*, P.G. Olin, and J.L. Cassell, California Sea Grant College System, University of California, La Jolla CA.

Cohen, A.N. 1997. Biological invasions in the estuary. *Interagency Ecological Program Newsletter* 10(2): 22-23.

Cohen, A.N. 1997. The invasion of the estuaries. Pages 6-9 in: *Proc. Second International Spartina Conf.*, Mar. 20-21, 1997, Olympia WA, K. Patten (ed.). Washington State University/Cooperative Extension, Long Beach WA.

Cohen, A.N. and J.T. Carlton. 1997. Transoceanic transport mechanisms: the introduction of the Chinese mitten crab *Eriocheir sinensis* to California. *Pac. Sci.* 51(1): 1-11.

Robilliard, G. and A.N. Cohen. 1996. *Potential Introduction of Nonindigenous Species to Prince William Sound, Alaska Via Discharge of Tanker Ballast Water*. A report for B.P. Exploration (Alaska) Inc., Anchorage AK, 23 pp.

Cohen, A.N. 1996. Biological invasions of the San Francisco Bay and Delta. Pages 16-17 in: *Proc. Nat'l Forum on Nonindigenous Species Invasions in U. S. Marine and Fresh Waters*, U. S. Capitol Building, Washington DC, Mar. 22, 1996, P. Cicero (ed.).

Reprinted in *National Invasive Species Act of 1996, Hearing before the Subcommittee on Drinking Water, Fisheries and Wildlife of the Committee on Environment and Public Works, U. S. Senate, 104th Congress, Washington DC, Sept. 19, 1996, pp. 212-213.*

Cohen, A.N. 1996. *Fishing for Food in San Francisco Bay: An Environmental Health and Safety Report*. Save San Francisco Bay Association, Oakland CA, 24 pp.

Cohen, A.N. and J.T. Carlton. 1995. *Nonindigenous Aquatic Species in a United States Estuary: A Case Study of the Biological Invasions of the San Francisco Bay and Delta*. U.S. Fish and Wildlife Service, Washington DC.

Executive summary reprinted in *H. R. 3217, The National Invasive Species Act of 1996, Hearing before the Subcommittee on Water Resources and Environment and the Subcommittee on Coast Guard and Maritime Transportation, Committee on Transportation and Infrastructure, House of Representatives, 104th Congress, Washington DC, July 17, 1996*, pp. 87-94. Also reprinted in *National Invasive Species Act of 1996, Hearing before the Subcommittee on Drinking Water, Fisheries and Wildlife of the Committee on Environment and Public Works, U. S. Senate, 104th Congress, Washington DC, Sept. 19, 1996*, pp. 178-185.

Cohen, A.N., J.T. Carlton and M.C. Fountain. 1995. Introduction, dispersal and potential impacts of the green crab *Carcinus maenas* in San Francisco Bay. *Mar. Biol.* 122: 225-237.

### **Technical Publications on Water Policy**

Cohen, A.N. 1996. *Environmental Review and Mitigation of a Water Supply Project in California*. A report for the Japanese Ministry of Construction, Tokyo, 69 pp.

Cohen, A.N. 1994. What to do when the well runs low: Linking water supply and land development decisions, *California Land Use Law & Policy Reporter* 3(1): 268-271.

Reprinted in *California Water Law & Policy Reporter* 4(10): 187-191, 1994.

Cohen, A.N. 1992. Water supply and land use planning: Making the connection, *Land Use Forum* 1(5): 341-344.

Gottlieb, R. and A.N. Cohen. 1991. *Water and Growth: Restructuring the Relationship*. Public Officials for Water and Environmental Reform, Sacramento CA.

### **General Publications on Marine Science and Environmental Policy**

Cohen, A.N. 2005. *Guide to the Exotic Species of San Francisco Bay*. At: <http://www.exoticguide.org>. San Francisco Estuary Institute, Oakland, CA.

Cohen, A.N. 2004. Invasions in the sea. *Park Science* 22(2): 37-41.

Cohen, A. N. 2001. *An Introduction to the San Francisco Estuary*. Third Edition. San Francisco Estuary Project, Oakland CA, Save The Bay, Oakland CA and San Francisco Estuary Institute, Richmond CA.

Cohen, A. N. 1999. Extent and impacts of ballast water invasions. *Ballast Exchange* (West Coast Ballast Outreach Project) 1: 2-3.

Cohen, A.N. 1997. Have claw, will travel. *Aquatic Nuisance Species Digest* 2(2): 1, 16-17.

Reprinted in *U. S. Water News* 14(9): 7, 1997.

Cohen, A.N. 1996. *Gateway to the Inland Coast: The Story of the Carquinez Strait*. California State Lands Commission, Sacramento CA.

Cohen, A.N. 1996. Stopping ballast water invaders. *Native Species Network* 1(2): 1.

Cohen, A.N. 1996. Damming the Bay. *Watershed* 35(3): 6-8.

Cohen, A.N. 1995. Chinese mitten crabs in North America. *Aquatic Nuisance Species Digest* 1(2): 20-21.

Cohen, A.N. and J.T. Carlton. 1995. Intruders in the Estuary. *Watershed* 34(4): 1, 8.

Cohen, A.N. 1994. The hidden costs of California's water, pages 288-302 in *Life on the Edge: A Resource Guide to California's Endangered Wildlife*, Biosystems Books, Santa Cruz CA.

Cohen, A.N. 1994. Storming the Bay. *Terrain* 24(10): 4, 7.

Cohen, A.N. 1993. Place invaders. *Pacific Discovery* (Calif. Acad. Sci.) 46(3): 22-26.

Reprinted in the *Sacramento Bee*, Nov. 28, 1993.

- Cohen, A.N. 1993. Enough water for growth? *Estuary* 2(5): 2.
- Cohen, A.N. 1992. Weeding the garden. *Atlantic Monthly* 270(5): 76-86.  
 Reprinted in *Environmental Viewpoints*, Vol. 2, 1993.  
 Reprinted in *Preserving Wildlife*, Prometheus Books, Amherst NY, 2000.
- Cohen, A.N. 1991. *An Introduction to the Ecology of the San Francisco Estuary*. Second Edition. San Francisco Estuary Project, Oakland CA.
- Cohen, A.N. 1990. *An Introduction to the Ecology of the San Francisco Estuary*. First Edition. San Francisco Estuary Project, Oakland CA.
- Cohen, A.N. 1990. A salt marsh guide. *Pacific Discovery* (Calif. Acad. Sci.) 44(1): 24-29.
- Cohen, A.N. 1989. Threatened in the nest. *Pacific Discovery* (Calif. Acad. Sci.) 42(4): 6-13.

### Invited Presentations

*Scientific & professional meetings:* British Ecological Society (2001); Bay Area Society for Conservation Biology (2001, plenary speaker); National Shellfisheries Association (2000); American Association for the Advancement of Science (1997, 1999, 2001), American Fisheries Society (1997, 1998), Association of Environmental Professionals (1997), Bay Area Biosystematists (1997), American Institute of Fisheries Research Biologists (1996), American Planning Association (1993)

*Conferences:* National Conference on Marine Bioinvasions (1999), Puget Sound Research '98 (1998, plenary speaker), International Zebra Mussel and Aquatic Nuisance Species Conference (1998), Monterey Bay National Marine Sanctuary Research Conference (1998), International *Spartina* Conference (1997, plenary speaker), California and the World Ocean '97 (1997), State of the Estuary Conference (1996, 2001, 2005), Interagency Estuarine Study Program Conference (1994, plenary speaker)

*Workshops and Symposiums on:* West Coast Native Oyster Restoration Workshop (2006), Humboldt Bay Restoration Symposium (2005), Marine Biosecurity in New Zealand (2002, plenary speaker); Coastal Law Symposium (2000), Symposium on California's Emerging Environmental Challenges (1998), Diversification of Aquaculture in Chile (1998), The Exotic Green Crab Workshop (1998), San Francisco Bay Biological Invasions Study Workshop (1997), Workshop on Landscape Alteration Effects Across the Americas (1996), Nonindigenous Species: Current Status and Research Needs (1996), Workshop on Invasions in Western North and South America (1996)

*Seminars at:* University of California at Berkeley, University of California-Bodega Marine Laboratory, Stanford University-Hopkins Marine Station, Moss Landing Marine Laboratories, San Francisco State University, California State University at Hayward, University of the Pacific, University of Redlands, Vista College, University of Washington, Duke University Marine Laboratory-Nicholas School of the Environment, North Carolina State University-Center for Applied Aquatic Ecology, Williams College-Maritime Studies Program, U.S. Geological Survey, U.S. Food and Drug Administration, California Coastal Conservancy, Smithsonian Environmental Research Center, Smithsonian Tropical Research Institute, University of the West Indies, Universidad Austral de Chile, University of Puerto Rico

*Public Forums:* Conference on Ballast Water and Marine Invasions, National Forum on Nonindigenous Species Invasions, California Academy of Sciences, Commonwealth Club of San Francisco, International Forum on Globalization, Monterey Bay Aquarium, San Francisco Natural History Society, Central Coast Biological Society, Sea Grant Briefing on Marine Invasions, The Nature Conservancy, Water Education Foundation, Association of California Water Agencies, Global Cities Conference, California State Parks Association

*Expert testimony/presentations before policy bodies and agencies:* California Legislative Assembly Select Committee on Coastal Protection, California Legislative Assembly Committee on Environmental Safety and Toxic Materials, California State Water Resources Control Board, San Francisco Bay Regional Water Quality Control Board, San Francisco Bay Conservation and Development Commission, California State Lands Commission, California State Coastal Conservancy, U.S. Senate Committee on Energy and Natural Resources - Subcommittee on Water and Power, U.S. Fish & Wildlife Service: National Directorate and Western Regional Directorate, National Aquatic Nuisance Species Task Force, Western Regional Panel on

Aquatic Nuisance Species, National Sea Grant College Program, California Sea Grant Extension Program, League of California Cities, Delta Vision Stakeholder Coordination Group

### **Committees and Panels**

Chair, California Quagga Mussel Science Advisory Panel, 2007; Member, California Ballast Water Performance Standards Advisory Committee, 2005; Member, Scientific Advisory Committee for the Golden Gate Audubon East Bay Education Program, 2004-2007; Scientific Advisor, Southern California Caulerpa Action Team, 2000-present; Member, National Working Group on Invasive Species Research, 2000; Member, Advisory Panel of the National Aquatic Nuisance Species Clearinghouse, 1999-present; Co-Chair, Western Regional Panel on Aquatic Nuisance Species, 1997-2000; Alternate Representative, National Aquatic Nuisance Species Task Force, 1996, 2003-present

### **Awards and Fellowships**

Environmental Achievement Award (San Francisco BayKeeper), 1999; Pew Fellow in Marine Conservation (Pew Charitable Trust), 1998-2002; Environmental Leadership Grants (Switzer Foundation), 1997, 1998, 1999; Best Public Official for the Environment (San Francisco Bay Sierra Club), 1994; National Audubon Society Graduate Student Research Award, 1989; University of California Club Scholar, 1989; Switzer Fellow, 1988; University of California Regents Fellow, 1985