

CURRICULUM VITAE -- MICHAEL K. ORBACH

CURRENT POSITIONS

Professor Emeritus in the Practice of Marine Affairs and Policy

Duke University Marine Laboratory
Nicholas School of the Environment
Duke University
135 Duke Marine Lab Road
Beaufort, NC 28516-9721
E-Mail: mko@duke.edu

Research Professor
Institute of Marine Sciences
University of California, Santa Cruz

Affiliated Researcher
Center for Ocean Solutions
Stanford University

Senior Fellow
Center for the Blue Economy
Middlebury Institute of International Studies at Monterey

EDUCATION

1975 -- Ph.D., University of California, San Diego, Cultural Anthropology
1973 -- M.A., University of California, San Diego, Cultural Anthropology
1969 -- B.A. -- University of California, Irvine, Economics

PREVIOUS POSITIONS

1993-2014 – Professor of the Practice of Marine Affairs and Policy and
Director, Coastal Environmental Management Program
Nicholas School of the Environment, Duke University

1998-2006 – Director, Duke University Marine Laboratory

1983-93 -- Professor of Anthropology, Department of Sociology and
Anthropology;
Senior Scientist, Institute for Coastal and Marine Resources;
East Carolina University

1979-82 -- Associate Director, Center for Coastal Marine Studies;
Adjunct Professor, Anthropology Board of Studies;
Adjunct Professor, Environmental Board of Studies;
University of California, Santa Cruz

1976-79 -- Social Anthropologist, Office of Resource Conservation and
Management, National Marine Fisheries Service;
Social Science Advisor, Office of Sea Grant;
National Oceanic and Atmospheric Administration,
Washington, D.C.

1975-76 – Instructor, Department of Anthropology, University of California, San Diego

1969-70 -- Instructor in Mathematics and German, Santa Ana Union High
School District, Santa Ana, CA

COURSES TAUGHT

- | | |
|---|---|
| -Introduction to Anthropology
(Four Field) | -Social Systems and the Environment |
| -Theory in Anthropology | -Anthropology of Maritime People |
| -Ethnographic Methods | -Marine Policy |
| -Applied Anthropology | -Marine Fisheries Policy |
| -Protected Species in a Changing
Coastal Environment | -Economic Development and Social Change |
| -Community-Based
Environmental Management | -Human Values and Environmental Ethics |
| | -Marine Conservation Biology and Policy |
| | -Urban Tropical Ecology (in Singapore) |

PUBLICATIONS

1) Orbach, M., 1977. Hunters, Seamen and Entrepreneurs: The Tuna Seiners of San Diego. Berkeley: University of California Press, 304 pp

2) Orbach, M., 1980. Social and Cultural Aspects of Limited Entry. In B. Rettig and J. Ginter, eds., Limited Entry as a Tool for Fisheries Management. Seattle: University of Washington Press, pp 148-56

3) Orbach, M., 1980. Fishery Cooperatives on the Chesapeake Bay: Advantage or Anachronism? *Anthropological Quarterly* 53:1:48-55

4) Orbach, M., 1980. The Human Dimension. In R. Lackey and R. Nielsen, eds., Fisheries Management. London: Blackwell's Scientific Publishers, Ltd., pp 58-67

5) Orbach, M., 1980. Fishing in Troubled Waters. *Environment* 22:1:27-52

- 6) Maiolo, J. and M. Orbach, eds., 1982. Modernization and Marine Fisheries Policy. Ann Arbor: Ann Arbor Science Publishers, 329 pp
- 7) Orbach, M. and J. Beckwith, 1982. Indochinese Adaptation and Local Government Policy. *Anthropological Quarterly* 55:3:78-90
- 8) Orbach, M., 1982. U.S. Marine Policy and the Ocean Ethos. *Marine Technology Society Journal* 16:4:41-49
- 9) Orbach, M., 1983. The Success in Failure of the Vietnamese Fishermen of Monterey Bay. *Coastal Zone Management Journal* 10:4:331-46
- 10) Orbach, M., 1984. Anthropologists in the Administrative Process. In W. Millsap, ed., Anthropology and Environmental Planning. Boulder: Westview Press, pp 328-42
- 11) Orbach, M., 1985. The Anthropologist and the Fishermen: Common Property, Common Problems and the Peasantry. *Reviews in Anthropology* 11:4:368-82
- 12) Orbach, M. and B. Holmes, 1985. Tentative Players in a Hybrid Economy: The Pribilof Island Aleuts. In S. Langdon, ed., Contemporary Native Alaskan Economies. New York: Academic Press, pp 167-93
- 13) Johnson, J. and M. Orbach, 1986. The Culture of Low-Capital Ocean Leisure Uses. *Journal of Leisure Sciences* 8:3:319-339
- 14) Orbach, M. and B. Cicin-Sain, 1986. Mutual Mysteries: Washington/Regional Interaction in the Implementation of Fisheries Management Policy. *Policy Studies Review* 6:2:348-357
- 15) Cicin-Sain, B., M. Orbach et al, 1986. Conflictual Interdependence: U.S.-Mexico Relations on Fishery Resources. *Natural Resources Journal* 26:4:769-92
- 16) Orbach, M., 1987. Independent State Fishery Commissions: The North Carolina Example. In A. Reiser and J. Bubier, eds., East Coast Fisheries Law and Policy. Portland: University of Maine Press, pp 67-78
- 17) Blomo, V., J. Maiolo and M. Orbach, 1988. Competition and Conflict in the Menhaden Industry. *American Journal of Sociology and Economics* 7:41-61
- 18) Orbach, M. and J. Maiolo, 1989. United States Tuna Policy: A Critical Assessment. *Marine Policy Report* 1:1:307-332
- 19) Orbach, M., 1989. Of Mackerel and Menhaden: A Public Policy Perspective on Fishery Conflict. *Ocean and Shoreline Management* 12:1:1-18
- 20) Orbach, M. and W. Queen, 1990. Ocean Policy Initiatives in Coastal States: North Carolina's Experience. *Coastal Management* 18:267-281

- 21) Johnson, J. and M. Orbach, 1990. Migratory Fishermen: A Case Study in Interjurisdictional Fisheries Management. *Ocean and Shoreline Management*, 13:3:231-252
- 22) Johnson, J. and M. Orbach, 1991. A Fishery in Transition: The Impact of Urbanization on Florida's Spiny Lobster Fishery. *City and Society* 2:1:95-112
- 23) Johnson, J. and M. Orbach, 1992. A Study of Coastal Fishermen Using Network Analysis and Other Multivariate Techniques. In M. Boone and J. Woods, eds., Computer Applications for Anthropologists. Belmont: Wadsworth Publishing Company, pp 178-92
- 24) Orbach, M., 1996. The South Atlantic Fishery Management Council: Policy and Management Issues Related to the Potential 1996 Amendments to the Magnuson Fisheries Conservation and Management Act. *Tulane Environmental Law Journal* 9:2:258-265
- 25) Orbach, M., 1997. Ecology and Public Policy. In D. Simpson and N. Christensen, eds., Ecosystem Function and Human Activities: Reconciling Economics and Ecology. New York: Chapman and Hall, pp 255-271
- 26) Committee on Individual Fishing Quotas (committee co-author), 1998. Sharing the Fish: Toward a National Policy on Individual Fishing Quotas. Washington, D.C.: National Academy Press, 673pp
- 27) Ecosystem Principles Advisory Panel (panel co-author), 1999. Ecosystem-Based Fishery Management. Report to Congress of the Ecosystem Principles Advisory Panel. Washington, D.C.: NOAA. 54 pp
- 28) Hanna et al (Senior Project Advisor), 2000. Improving Fisheries Management: A National Report. Washington, D.C.: Heinz Center for Science, Economics and the Environment. 255 pp
- 29) Committee Co-author, 2002. Human and Environmental Links to Natural Disasters: Strengthening Coastal Communities. Washington, D.C.: Heinz Center for Science, Economics and the Environment (through Island Press)
- 30) Orbach, M. 2002, "Beyond the Freedom of the Seas: Ocean Policy for the Third Millennium". Washington, D.C. National Academy Press (Revelle Memorial Lecture, also published in Oceanography)
- 31) Co-Author (with K. Gjerde and M. Gorina-Ysern), 2005, "Ocean Governance", in Conservation International, Defying Ocean's End. Washington, D.C.: Island Press
- 32) Orbach, M., 2008, Cultural Context of Ocean Fertilization", Marine Ecology Progress Series 364:235-242

- 33) Poulter, B., Feldman, R., Brinson, M., Horton, B., Orbach, M., Pearsall, S., Reyes, E., Riggs, S. and Whitehead, J., 2009. Sea Level Rise Research and Dialogue in North Carolina: Creating Windows for Policy Change. *Ocean and Coastal Management* 52:147-153
- 34) Frazão Santos, C., Teixeira, Z.G., Janeiro, J., Gonçalves, R.S., Bjorkland, R. and Orbach, M., 2012. The European Marine Strategy: Contribution and challenges from a Portuguese perspective. *Marine Policy* 36:963-968
- 35) Frazão Santos, C., Michel, J., Neves, M., Janeiro, J., Andrade, F. and Orbach, M., 2013. Marine spatial planning and oil spill risk analysis: finding common grounds. *Marine Pollution Bulletin* 74:73-81
- 36) Frazão Santos, C., Domingos, T., Ferreira, M.F., Orbach, M. and Andrade, F., 2014. How sustainable is sustainable marine spatial planning? Part I–Linking the concepts. *Marine Policy* 49:59-65
- 37) Frazão Santos, C., Domingos, T., Ferreira, M.F., Orbach, M. and Andrade, F., 2014. How sustainable is sustainable marine spatial planning? Part II–The Portuguese experience. *Marine Policy* 49:48-58
- 38) Orbach, M., 2014. A brief essay on the nature of (and in) environmental policy. *Journal of Environmental Studies and Sciences*, DOI: 10.1007/s13412-014-0170-3
- 39) Frazão Santos, C., Orbach, M., Calado, H. and Andrade, F., 2015. Challenges in implementing sustainable marine spatial planning: The new Portuguese legal framework case. *Marine Policy* 61:196-206
- (40 to 45 are a Special Theme Issue of *Coastal Management* V.43:2)
- 40) Jesse G. Hastings, M. Orbach, L. Karrer, L. Kaufman, 2015. Multi-Site, Interdisciplinary Applications of Science to Marine Policy: The Conservation International Marine Managed Area Science Program. *Coastal Management* 43:105-121
- 41) Jesse G. Hastings, M. Orbach, L. Karrer, L. Kaufman, 2015. MMAS in Brazil. *Coastal Management* 43: 122-137
- 42) Jesse G. Hastings, M. Orbach, L. Karrer, L. Kaufman, 2015. MMAS in Belize. *Coastal Management* 43: 138-154
- 43) Jesse G. Hastings, M. Orbach, L. Karrer, L. Kaufman, 2015. MMAS in Fiji. *Coastal Management* 43: 155-171
- 44) Jesse G. Hastings, M. Orbach, L. Karrer, L. Kaufman, 2015. MMAS in Eastern Tropical Pacific Seascape. *Coastal Management* 43: 172-188

45) Jesse G. Hastings, M. Orbach, L. Karrer, L. Kaufman, 2015. Lessons Learned from the Marine Managed Area Science Program: Insights for Global Conservation Science Programs. *Coastal Management* 43: 189-216

REPORTS, PROCEEDINGS AND BRIEF CONTRIBUTIONS (Selected)

1) Orbach, M., ed., 1977. Report of the National Workshop on the Concept of Optimum Yield in Fisheries Management. Washington, D.C.: U.S. Department of Commerce, 343 pp

2) Orbach, M., 1977. Federal Employment. *Practicing Anthropology* 1:2:4-5

3) Cato, J., M. Orbach et al, 1978. Social and Economic Aspects of Fisheries Management. Charleston, SC: South Atlantic Fisheries Management Council, 37 pp

4) Freeman, M., M. Orbach et al, 1979. Report of the Panel to Consider Cultural Aspects of Aboriginal Whaling in Contemporary North Alaskan Eskimo Culture. London: International Whaling Commission, 245 pp

5) Orbach, M. and L. King, 1979. The Social Sciences in the Sea Grant Program. Report to the Sea Grant Association Executive Committee, Washington, D.C., 29 pp

6) Orbach, M. and V. Harper, 1979. United States Fishery Systems and Social Science: An Annotated Bibliography and Directory of Researchers. Washington, D.C.: U.S. Department of Commerce, 109 pp

7) Orbach, M. et al, 1980. An Annotated Bibliography of Social, Cultural and Economic Material Related to Fishery Development in Hawaii, American Samoa and Micronesia. Portland, OR: Pacific Marine Fisheries Commission, 178 pp

8) Orbach, M., 1982. Marine Mammals and Man: The Human Dimension. In B. Cicin-Sain et al, eds., *Social Science Perspectives on Managing Conflicts Between Marine Mammals and Fisheries*. Santa Barbara, CA: Marine Policy Program, UC Santa Barbara, pp 123-38

9) Orbach, M. K., 1984. The Anthropologist and the Bear: A Fable for the Modern Anthropologist. *Practicing Anthropology* 5:4:1-18

10) Orbach, M., D. Moffitt et al, 1984. North Carolina and the Sea: An Ocean Policy Analysis; Report of the Marine Science Council. Raleigh: North Carolina Department of Administration, 64 pp

11) Orbach, M., 1987. An Overview of Social Science in Fisheries Management. In G. Waugh and M. Goodwin, eds., *Proceedings of the Gulf and Caribbean Fisheries Institute*, Charleston, SC, pp 187-98

- 12) Orbach, M. and J. Johnson, 1989. The Transformation of Fishing Communities: A Public Policy Perspective. In S. Thomas et al, eds., Marine Resource Utilization: A Conference on Social Science Issues. Mobile, AL: University of South Alabama, pp 63-66
- 13) Marine Science Council (committee co-author), 1991. Debris in the Sea: Report of the North Carolina Marine Science Council. Raleigh, NC: NC Office of Marine Affairs, 49 pp
- 14) Committee on Tuna-Porpoise Mortality (committee co-author), 1992. Dolphins and the Tuna Industry. Washington, D.C.: National Academy Press, 176 pp
- 15) Environmental Science Review Panel (committee co-author), 1992. Report on the Adequacy of Scientific Data for the North Carolina Outer Continental Shelf. Report of the NC Environmental Science Review Panel to the Secretary of Interior, 104 pp
- 16) Orbach, M., 1994. Social Science in the Magnuson Fishery Conservation and Management Act. In R. Stroud, ed., Conserving America's Fisheries: The Proceedings of a National Symposium on the Magnuson Act. Atlanta: National Coalition for Marine Conservation, pp 25-34
- 17) Committee on the National Sea Grant College Program (committee co-author), 1994. The National Sea Grant College Program: A Critical Review. Washington, D.C.: National Academy Press.
- 18) Orbach, M., 1995. Social Science Contributions to Managing Ecosystems. In B. Cicin-Sain, ed., Improving Interactions Between Coastal Science and Policy: Proceedings of the Gulf of Maine Symposium. Washington, D.C.: National Academy Press, pp 27-35
- 19) Orbach, M., 1995. Social Scientific Contributions to Coastal and Marine Policy-Making. In B. Cicin-Sain, ed., Science and Policy in the Coastal Zone: The California Example. Washington, D.C.: National Academy Press. pp 49-61
- 20) Committee on Science and Policy in the Coastal Ocean (committee co-author), 1995. Science and Policy in the Coastal Ocean. Washington, D.C.: National Academy Press. 124pp
- 21) NOAA (committee co-author), 1995. The Use of Marine Fishery Reserves in the U.S. Southeastern Atlantic. Miami, FL: NOAA Technical Memorandum NMFS-SEFSC-376, 54pp
- 22) Orbach, M., 1996. Social Science Contributions to Managing Ecosystems. In B. Cicin-Sain, ed., Improving Interactions Between Coastal Science and Policy: Proceedings of the Gulf of Mexico Symposium. Washington, D.C.: National Academy Press, pp-37-49
- 23) Orbach, M., 1996. Social Science in the Coastal Zone. In J. Taussik and J. Mitchell, eds., Partnership in Coastal Zone Management, Proceedings of LITTORAL '96, the Third International Conference of the European Coastal Association for Science and Technology. Cardigan, UK: Samara Publishing Limited, pp 45-54

- 24) Johnson, J. and M. Orbach, 1996. Effort Management in North Carolina Fisheries: A Total Systems Approach. Fishery Research Report to the NC Fisheries Moratorium Steering Committee, University of North Carolina Sea Grant College Program Technical Report UNC-SG-96-02, 155pp
- 25) Orbach et al, 2006. *Ecosystem Social Science Workshop Report*. Honolulu, HI: Western Pacific Regional Fisheries Management Council. 142pp.
- 26) Co-Author with E. Glazier and J. Petterson, 2007. *Report of the Western Pacific Fishery Ecosystems Workshop*. Honolulu, HI: Western Pacific Regional Fishery Management Council, 86pp.
- 27) Co-Author with G. Samonte-Tan and L. Karrer, 2010. *People and Oceans*. Science and Knowledge Division, Conservation International, 19pp.
- 28) Co-Author with L. Karrer, 2010. *Marine Managed Areas: What, Where and Why?* Science and Knowledge Division, Conservation International, 15pp.
- 29) Lead Co-Author, 2011, with Sandra Cavalieri, Emily McGlynn, Ralph Piotrowski, Andrew Reid; Meridian Institute: Laura Cantral, Elizabeth Lee, Ingrid Irigoyen, Kirsten Howard; Institute for Sustainable Development and International Relations – IDDRI: Raphaël Billé, Marie Bourel, Julien Rochette, Matthieu Wemaëre; Duke University: Michael Orbach; University of Delaware: Biliانا Cicin-Sain, Miriam Balgos, Gwenaëlle Hamon, *A Comparison: EU and US Ocean Policy*. Report of the Cooperation Across the Atlantic for Marine Governance Integration (CALAMAR) Project. Berlin: Ecologic Institute, 94pp.
- 30) Lead Co-Author, 2011, Meridian Institute: Laura Cantral, Elizabeth Lee, Ingrid Irigoyen, Mallorie Bruns, Kirsten Howard; Ecologic Institute: Sandra Cavalieri, Franziska Stuke, Elena von Sperber, Ralph Piotrowski; Institute for Sustainable Development and International Relations – IDDRI: Raphaël Billé, Marie Bourel, Julien Rochette, Matthieu Wemaëre; Duke University: Michael Orbach; University of Delaware: Biliانا Cicin-Sain, Miriam Balgos, Gwenaëlle Hamon. *Opportunities and Challenges in the EU and US for Marine Governance Integration*. Report of the Cooperation Across the Atlantic for Marine Governance Integration (CALAMAR) Project. Berlin: Ecologic Institute, 72pp.
- 31) Lead Co-Author, 2011, Lisa Speer (Co-Chair), Emanuel Gonçalves (Co-Chair), Jeff Ardron, Salvatore Arico, Peter Auster, Matthew Gianni, Kristina Gjerde, Dan Laffoley, Michael Lodge, Mike Orbach, Shirley Pomponi, Julien Rochette, Sebastian Unger. *CALAMAR Expert Paper High Seas Working Group*. Report of the Cooperation Across the Atlantic for Marine Governance Integration (CALAMAR) Project. Berlin: Ecologic Institute, 20pp.
- 32) Michael K. Orbach, Sub-Chapter Lead Co-Author (with a Nicholas School graduate Orbach recruited as co-author), 2012. Oceans and Marine Resources in a Changing Climate: Technical Input to the 2013 National Climate Assessment. This is an electronic version of an article published in *Oceanography and Marine Biology Annual Review*, Volume 51. The final version

will be published June 2013 and available online at:

http://www.crcpress.com/browse/series/?series_id=1791 and by Island Press, 2013.

33) Amber Himes-Cornell, Mike Orbach, Lead Authors, Section 4: *Impacts of Climate Change on Human Uses of the Ocean*, in Griffis, R. and Howard, J., Eds., 2013. Oceans and Marine Resources in a Changing Climate: A Technical Input to the 2013 National Climate Assessment. Washington, DC: Island Press.

CONTRACTS, GRANTS AND FUNDRAISING

Major External Fundraising (in role as Director, Duke University Marine Laboratory)

2000 -- \$3,000,000 for two Endowed Professorships in 1) Marine Conservation Biology and 2) Marine Affairs and Policy, Oak Foundation

2003 -- \$1,000,000 for Lawrence E. Blanchard Society of Fellow and Scholars, Blanchard Family

2004 -- \$2,000,000 for Endowed Professorship in Marine Conservation Technology, Randy Repass and Sally-Christine Rodgers

2004 -- \$1,000,000 for construction of Ocean Science Teaching Center, Randy Repass and Sally Christine Rodgers

2002-2004 -- \$600,000 for construction of Ocean Science Teaching Center, various sources

Contracts and Grants

2013, Lenfest Foundation, The Effectiveness of the Lenfest Forage Fish Report, \$37,145

2011, Oak Foundation, Global Fellow and Mini-Grant Program, \$388,787

2010, European Union/Ecologic Institute, Enhanced Cooperation and Coherence in the Transatlantic Implementation of Integrated Governance, \$75,753.00

2009, with L. Campbell, North Carolina Sea Grant College Program, Change in Coastal Communities: Perspectives from Down East, \$60,000

2008 – M. Orbach, Conservation International, Cultural Roles Related to marine management Areas in Coiba Island, Panama, \$42,234

2008 – M. Orbach, Conservation International, Cultural Roles Related to Marine Management Areas in Fiji, \$42,234

2008 – M. Orbach, Conservation International, Cultural Roles of the Abrolhos Marine Reserve Region, including the Abrolhos Marine Reserve, the Corumbao Extractive Reserve, the Canavieiras Marine Reserve, and the Cassuruba Extractive Reserve, \$39,421

2006 – M. Orbach. Conservation International, Cultural Roles Related to Marine Management Areas in Belize, \$46,747

2005 – B. Murray, T. Crowley, M. Orbach, J. Ramus, M. Smith, National Science Foundation, Coupling Human and Natural Influences on Coastline Evolution as Climate Changes, \$1,198,138

2002 – C. Bonaventura and M. Orbach, National Science Foundation, NSF Graduate Teaching Fellows Program of the Duke University Marine Laboratory, \$988,850

2001 – M. Orbach, NOAA Coastal Services Center, Cooperative Program for Coastal Program Development and Coordination, \$161,797

2001– M. Orbach, NC Department of Environment and Natural Resources, Development of Marine Fisheries Habitat Protection Plans, \$25,000

2000– M. Orbach, NOAA Coastal Services Center, Cooperative Program for Coastal Program Development and Coordination, \$120,879

1998 – M. Orbach, Cooperative Agreement on Science and Policy, Coastal Services Center, NOAA, \$97,000

1998 – M. Orbach, Human Use Mapping and User Coordination Plan for Core Sound, North Carolina, NC Department of Environment and Natural Resources, \$98,000

1996 -- M. Orbach, Limited Entry Alternatives for the Georgia Blue Crab Fishery, State of Georgia, \$49,000

1996 -- M. Orbach, Data Analysis in the Pacific Longline Fishery, National Marine Fisheries Service, \$10,000

1996 -- M. Orbach, Policy Analysis and Application for the Coastal Services Center, NOAA Coastal Services Center, \$54,000

1996 -- M. Orbach, The Island Design Project, Turner Foundation, \$20,000

1996 -- M. Orbach and J. Johnson, Emerging Fisheries Policy: A Longitudinal Analysis, North Carolina Sea Grant College Program, \$28,000

1995 -- M. Orbach and J. Johnson, Limited Entry in North Carolina Fisheries: A Total Systems Approach, North Carolina Sea Grant College Program, \$76,000

1994 -- M. Orbach and J. Johnson, Social Network Analysis of Emerging Fisheries Policy, North Carolina Sea Grant College Program, \$28,890

1993 -- M. Miller and M. Orbach, Small-Scale Pelagic Fisheries in Hawaii, Pacific Pelagics Research Program, University of Hawaii, \$35,000

1993 -- M. Orbach and J. Johnson, Limited Entry in the Florida Stone Crab Fishery: A Multi-Species Approach, Year II. National Marine Fisheries Service, \$87,007

1992 -- M. Orbach and J. Johnson, Multi-Fishery Direct Effort Management: Development of Techniques. North Carolina Sea Grant College Program, \$58,000

1991 -- M. Orbach and J. Johnson, Limited Entry in the Florida Stone Crab Fishery: A Multi-species Approach. National Marine Fisheries Service, \$100,699

1990-92 -- M. Orbach, A Citizen's Water Quality Monitoring Program for the Albemarle-Pamlico Region. Albemarle-Pamlico Estuarine Study, \$120,000 (cumulative)

1989 -- M. Orbach and J. Johnson, An Industry-Derived Framework for Limited Entry in the Florida Spiny Lobster Fishery. Gulf and South Atlantic Fishery Development Foundation, \$65,000

1986 -- M. Orbach and J. Johnson, Socio-Cultural and Economic Aspects of the Florida Spiny Lobster Fishery. Office of Sea Grant, NOAA, \$60,000

1985 -- M. Orbach, Archaeological Investigations of the Pomeiooc Site. North Carolina Division of Archives and History and Friends of North Carolina Archaeology, \$53,000

1984-87 -- M. Orbach and J. Johnson, The Movement of Commercial Fishermen and Vessels among Atlantic Coastal States: Management and Policy Implications. North Carolina Sea Grant College Program, \$95,311 (cumulative)

1984-92 -- W. Queen and M. Orbach, North Carolina Marine Policy Fellowship. North Carolina Sea Grant College Program, \$80,000 (Cumulative)

1982 -- M. Orbach, Social and Cultural Impacts of Management Alternatives for the Monterey Bay Sablefish Fishery. National Marine Fisheries Service, \$6,500

1981 -- R. Gaudino and M. Orbach, A Day on the Bay: Celebration of Italian-American Heritage in the Santa Cruz, CA Fishing Community. Various private individual and foundation contributions, \$60,000

1981 -- B. Cicin-Sain and M. Orbach, U.S.-Mexico Relations on Fisheries Policy. University of California Sea Grant College Program, \$50,023

1981 -- M. Orbach, The Social Impact of Land Use Changes in Moss Landing, CA. U.S. Army Corps of Engineers, \$6,500

1981 -- M. Orbach, Social and Cultural Aspects of the Renegotiation of the North Pacific Fur Seal Convention. Center for Marine Conservation, \$35,000

1980 -- M. Orbach, Social and Cultural Aspect of Fisheries Development in the U.S. Trust Territories of the Pacific. Pacific Marine Fisheries Commission, \$17,500

1980 -- M. Orbach and B. Cicin-Sain, The Role of Individual Perception and Structural Position in the Development of Fisheries Management Policy. University of California Sea Grant College Program, \$10,889

1980 -- M. Orbach, Indochinese Adaptation to the Monterey Bay Fishing Community. University of California Sea Grant College Program, \$9,672

COMMITTEES AND APPOINTMENTS (Selected)

External -- Policy

Member, National Research Council Life Sciences Board Postdoctoral Proposal Review Panel, 2009-present

Member, North Carolina Legislative Task Force on Ocean Energy, 2009-2010 (appointed by Senate Pro Tempore Marc Basnight)

Review Coordinator for National Academies studies, beginning in 2005

National Science Foundation Committee to review the National Ecological Observatory Network (member, first review panel; Chair, "Reverse Review" panel), 2006

Scientific Advisory Panel, U.S. Commission on Ocean Policy (Presidential Commission), 2002-2004

Pew Oceans Commission, Social Science Advisor, 2001-2004

Ocean Studies Board, National Research Council, 1997-2000

National Research Council Committee on Individual Transferable Fishing Quotas, 1997-1999

Panel on Ecosystem Principles in Fisheries, National Marine Fisheries Service (Congressionally-mandated, National Academy of Science-recommended panel), 1997-1999

National Research Council Committee on Science and Policy in the Coastal Ocean, 1995-96

Chair (elected), Carteret County Beach Preservation Task Force, 1996-1999; member, 1996-present

North Carolina Marine Fisheries Commission, 1985-1995 (Governor's Appointment);

Commission Vice Chair (elected), 1994-1995;
Chair, Saltwater Recreational License Committee, 1994-95;
Chair, Blue Crab Committee, 1994-95;
Chair, Bycatch Review Committee, 1990-91
Chair, License Review Committee, 1988-89;
Chair, Regulation Review Committee, 1986-88;

Chair, North Carolina Ocean Affairs Council, 1985-1993 (Governor's appointment)

Board of Directors, Partnership for the Sounds, 1992-present

National Academy of Science Committee on the Sea Grant College Program, 1994

Technical Committee, Albemarle-Pamlico Estuarine Study; Chair, Public Involvement Subcommittee, 1986-1994

North Carolina State-Federal Ocean Phosphates Task Force, 1986-1992 (Governor's appointment)

National Academy of Science Committee on Tuna-Porpoise Mortality, 1989-91

Environmental Science Review Panel (National Academy of Science-based panel to review Mobil Oil Consortium proposal for OCS development off North Carolina; joint Governor-Secretary of Interior appointment), 1990-92

Scientific and Statistical Committee, Pacific Fisheries Management Council, 1979-82

Santa Cruz City Museum Commission, 1980-82

External – Professional

Member, Board of Directors, Partnership for the Sounds, 1988-1998, 2009-present

Member, Board of Directors, East Carolina Community Development Foundation, 2011-present

Chair, Gordon and Betty Moore Foundation Marine Program Initiative Review Committee, 2008-2009

Member, National Sea Grant Advisory Board, 2008-present

Member, Board of Directors, The Ocean Conservancy, 2006-present

Member, Board of Directors, National Ocean Economics Program, 2006-present; Chair 2007-2008

Member, South Carolina Sea Grant College Program Advisory Board, 2006-present

Member, Science Advisory Board, Gulf of Maine Research Institute, 2006-present

Member, Board of Directors, National Association of Marine Laboratories, 2005-present

President, Southern Association of Marine Laboratories, 2005-6

Board of Directors, Surfrider Foundation, 2001-2007; Chair, 2002-2005

Board of Directors, North Carolina Beaches, Inlets and Waterways Association (NCBUW), 1998-present

Board of Directors, Carolina Coastal Classrooms Foundation, 2002-2009

President, The Coastal Society (1995-1998; Past President, 1998-2001)

Advisory Board, Pew Scholars Program, 1996-2000

Board of Directors, Marine Affairs and Policy Association, 1991-present

National Advisory Board, National Coastal Resources Institute, 1985-1995

Nominations Committee, American Anthropological Association, 1980-81; Chair, 1981

Chair, Social Impact Assessment Committee, Society for Applied Anthropology, 1979-85

Publications Policy Committee, Society for Applied Anthropology, 1979-85

University

Duke University, Nicholas School of the Environment

Admissions and Awards Committee, 1993-present
Education Committee, 1993-present
Coastal and Marine Science and Policy Task Force, 1998-2000
Faculty Advisory Council, 2001-present

East Carolina University

Chancellor's Committee on the Status of Women, 1990-93
Vice-Chair 1992-93 (elected)
Vice-Chancellor's Committee on Tenure and Promotion, 1987-92

University of California, Santa Cruz

Chancellor's Advisory Committee for Ethnic Studies, 1980-82
Chancellor's Advisory Committee on Academic Administrators, 1981-82
Advisory Committee, Merrill College Field Program for Experiential Learning, 1979-82
Chancellor's Advisory Committee for the Board of Environmental Studies, 1980-82
Career Planning and Placement Advisory Committee, 1981-82

Editorial

Editorial Review Board, *Coastal Management Journal*, 1980-present

Anthropology Editor, *Journal of Contemporary Ethnography*, 1985-89

Contributing Editor, *Practicing Anthropology*, 1979-85

LEGISLATIVE INVOLVEMENT

Assistance in Drafting of Legislation

Georgia General Assembly, Blue Crab Fishery Limited Entry Legislation, 1997

North Carolina General Assembly, Marine Fisheries Moratorium Legislation, 1994; Fisheries Reform Act, 1997

North Carolina General Assembly, Legislation to abolish the Marine Science Council and establish the Ocean Affairs Council, 1992

Florida Legislature, Spiny Lobster Trap Certificate Program Legislation, 1991

Testimony

U.S. Senate, Committee on Science, Commerce and Transportation, National Ocean Policy Study, Hearing on Ocean Policy, September, 2006

Moderator and Summary Speaker, Symposium on "The Coral Reef Crisis", U.S. House of Representatives, May 31, 2002 (sponsored by the House Oceans Caucus)

U.S. Senate, Committee on Science, Commerce and Transportation, Subcommittee on Fisheries and Wildlife, on the reauthorization of the Magnuson-Stevens Fishery Conservation and Management Act, May, 2001

North Carolina General Assembly, Joint Study Commission on Seafood and Aquaculture, on the Core Sound Human Uses Mapping Project, January, 1999

North Carolina General Assembly, Joint Study Commission on Seafood and Aquaculture, on provisions for a saltwater recreational fishing license, February, 1997

North Carolina General Assembly, Shellfish Task Force, Joint Study Commission on Seafood and Aquaculture, on the documentation of human use of marine resources, November-December, 1996

North Carolina General Assembly, Joint Study Commission on Seafood and Aquaculture, on the potential for a commercial fisheries license moratorium, April-May 1994

North Carolina General Assembly, Joint Study Commission on Seafood and Aquaculture, on the proposal for a saltwater recreational fishing license, December, 1993

U.S. Senate, Committee on Science, Commerce and Transportation, on marine fisheries policy, June, 1992

North Carolina General Assembly, House Environment Committee, on the restructuring of the North Carolina Marine Science Council, May, 1992

Florida Legislature, House and Senate Natural Resource Committees, on the Florida Spiny Lobster Trap Certificate System, February-March, 1991

U.S. House of Representatives, Committee on Merchant Marine and Fisheries, on behalf of the State of North Carolina concerning the extension of coastal state jurisdiction, May, 1989

CONSULTANCIES

Chair, Social Science Review Panel, California Marine Managed Area Central California Project, 2007-2009

Mote Marine Laboratory, Marine Policy Institute, 2006-present

Pew Oceans Commission, Marine Fisheries Policy and Ocean Governance, 2001-2004

Pew Charitable Trusts and Rockefeller Brothers Foundation, Constituent-Based Marine Fisheries Policy and Management, 1995-97

South Atlantic and Western Pacific Fishery Management Councils, Policy for Highly Migratory Marine Fish Species, periodically 1986-92.

Gulf of Mexico Fisheries Management Council, Effort Management in Gulf of Mexico Fisheries, 1992-present

State of Hawaii, Ocean Management Planning, 1990-91

University of New Orleans, Social Impacts of Turtle Excluder Devices, 1990-91

North Pacific Fisheries Management Council, Social Impact Assessment and Effort Management, 1993-present

Minerals Management Service, U.S. Department of Interior, North Carolina OCS Socioeconomic Study, 1992-94

Member, Board of Advisors, "The Blue Revolution", documentary film series on man's relationship with the sea, Mare Nostrum Foundation, Washington, D.C., 1982-89

Island Resources Foundation, St. Thomas/Washington, D.C., Fisheries Development in the Caribbean, 1985-87

Honorary Consultant, Survival Service Commission, International Union for the Conservation of Nature, 1981-84

Social Science Advisor to Gulf of Mexico Shrimp and Menhaden Management Plan Task Forces, 1977-79

California Coastal Commission, Socio-economic Impact of OCS Development, 1980

Reviewer for:

National Science Foundation
Office of Sea Grant and Sea Grant College Programs
Social Science Research Board of Canada
American Anthropologist
Human Organization
American Ethnologist
Fisheries
North American Journal of Fisheries Management

Various Presses and Specialty Journals

HONORS AND AWARDS

Honor Scholar in Economics, University of California, Irvine, 1969

Regents Fellow, University of California, San Diego, 1973

Nominated to the Center for Advanced Study in the Social Sciences, Stanford University, 1978

Nominated for the Margaret Mead Award, Society for Applied Anthropology, 1982

National Praxis Award (with J. Johnson), Washington Association of Practicing Anthropologists (for outstanding contributions to the application of anthropological knowledge), for research, design and implementation of a new policy and management system for the Florida spiny lobster fishery), 1991

Nominated for Pew Scholars Program, 1994-95; 1995-96

Visiting Regent's Scholar, University of California, Santa Cruz, Spring, 1995

Plenary Speaker, American Fisheries Society Annual Meeting, Baltimore, MD, August 2002

Roger Revelle Memorial Lecture Speaker, National Academy of Science and Engineering, Washington, D.C., November 2002

Bevin Lecturer, School of Fisheries and Aquatic Sciences, University of Washington, 2003-4

National Associate of the National Research Council, appointed 2008

The Coastal Society Lifetime Service Award (awarded 2012)

PROFESSIONAL ASSOCIATIONS

Fellow, American Anthropological Association

Fellow, Society for Applied Anthropology

Member, American Fisheries Society

Member, Marine Affairs and Policy Association

Member, The Coastal Society

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