

# CURRICULUM VITAE

## Evamaria Wysk Koch

### Horn Point Laboratory

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### I. Education

1984	B.Sc.	Universidade de Rio Grande, Brazil	Oceanography
1988	M.S.	University of South Florida, Tampa	Biology
1993	Ph.D.	University of South Florida, St. Petersburg	Marine Science

### II. Professional Background

1988-1989	Biological Scientist, Florida Marine Research Institute, St. Petersburg, FL
1993-1995	Research Scientist, Department of Marine Sciences, University of Connecticut.
1995-2001	Assistant Professor, Horn Point Laboratory, University of Maryland Center for Environmental Science, Cambridge, MD.
1999	Visiting Scientist, Max Planck Institute for Marine Microbiology, Bremen, Germany (Oct/Nov).
2001-present	Associate Professor, Horn Point Laboratory, University of Maryland Center for Environmental Science, Cambridge, MD.
1995-2001	Courtesy Assistant Professor, College of Arts and Sciences, University of South Florida.

### Awards and Special Recognition

1992	Best Student Presentation Award – XIV <sup>th</sup> International Seaweed Symposium, Brest and Saint-Malo, France
1991-1993	Elsie and William Knight Jr. Fellowship, University of South Florida, St. Petersburg, FL
1994-2002	Who is Who in Science and Engineering
1999	NSF panelist
2001	Thesis examiner, University of Western Australia
2002 - 2005	Marine Ecology Progress Series Staff Reviewer
2005 - present	Editorial board of Marine Ecology, Blackwell Verlag
2005	Thesis Examiner, Stockholm University, Sweden
2006	NSF panelist invitation
2006 – 2007	Peer reviewer for the European Science Foundation

### III. Research

#### A. Areas of Professional Expertise

Seagrass ecology, hydrodynamically-mediated processes in meadows of aquatic plants, global changes in coastal plant systems, tissue culture of marine macrophytes, ecophysiology of marine plants.

#### B. Peer Refereed Publications

##### 1. Papers in Refereed Journals (last 5 years)

Stevenson, J.C., M.S. Kearney and E.W. Koch. 2002. Impacts of Sea Level Rise on Tidal Wetlands and Shallow-Water Habitats: A Case Study from Chesapeake Bay. In: N.A. McGinn (Ed.) Fisheries in a Changing Climate. American Fisheries Society, Symposium 32, Bethesda, Maryland, pages 23-36. UMCES contribution # 3583.

Koch, E.W. 2002. The impact of boat-generated waves on a seagrass habitat. *Journal of Coastal Research* 37:66-74. UMCES contribution # 3614.

Larkum, A.W.D., E.W. Koch and M. Kuhl. 2003. Diffusive boundary layers and photosynthesis of the epilithic algal community of coral reefs. *Marine Biology* 142:1073-1082.

Koch, E.W. and R.J. Orth 2003. Seagrasses of the Mid-Atlantic Coast, USA. *World Atlas of Seagrasses*, University of California Press, pp 216-223. UMCES contribution # 3613.

Brandt, L.A. and E.W. Koch 2003. Periphyton as a UV-B filter on seagrass leaves: a result of different transmittance in the UV-B and PAR ranges. *Aquatic Botany* 76:317-327. UMCES contribution # 3615.

Kemp, W.M., R. Batiuk, R. Bartleson, P. Bergstrom, V. Carter, C. Gallegos, W. Hunley, L. Karrh, E.W. Koch, J. Landwehr, K. Moore, L. Murray, M. Naylor, N. Rybicki, J.C. Stevenson and D. Wilcox. 2004. Habitat requirements for submerged aquatic vegetation in Chesapeake Bay: Water quality, light regime, and physical-chemical factors. *Estuaries* 27(3):363-377.

Newell, R.I.E. and E.W. Koch. 2004. Modeling seagrass density and distribution in response to changes in turbidity stemming from bivalve filtration and seagrass sediment stabilization. *Estuaries* 27:793-806. UMCES contribution # 3812.

MacIntyre, H.L., M.W. Lomas, J. Cornwell, D.J. Suggett, E.W. Koch and T.M. Kana. 2004. Mediation of benthic-pelagic coupling by microphytobenthos: an energy- and material-based model for initiation of blooms of *Aureococcus anophagefferens*. *Harmful Algae* 3:403-437

Di Carlo, G., F. Badalamenti, A.C. Jensen, M. Toccaceli, G. Di Stefano and E.W. Koch

2005. Colonization process of vegetative fragments of *Posidonia oceanica* (L.) Delile on rubble mounds. *Marine Biology* 147:1261-1270.
- Koch, E.W., J. Ackerman, M. van Keulen and J. Verduin. 2006. Fluid Dynamics in Seagrass Ecology: from Molecules to Ecosystems. In: Larkum, A.W.D., R.J. Orth and C.M. Duarte (eds), *Seagrasses: Biology, Ecology and Conservation*. Springer Verlag, pp 193-225.
- van den Belt, M., O.A. Bianciotto, R. Costanza, S. Demers, S. Diaz, G.A. Ferreyra, E.W. **Koch**, F.R. Momo and M. Vernet. 2006. Mediated Modeling of the Impacts of enhanced UV-B radiation on Ecosystem Services. *Photochemistry and Photobiology* 82:865-877.
- Costa, C.S.B., Armstrong, R., Detrés, Y., **Koch**, E.W., M. Bertiller, A. Beeskow, L.S. Neves, G.M. Tourn, O.A. Bianciotto, L.B. Pinedo, A.Y. Blessio, and N. San Roman. 2006. Effect of UV-B radiation on salt marsh vegetation: trends of the genus *Salicornia* along the Americas. *Photochemistry and Photobiology* 82:878-886.
- Short, F.T., E.W. **Koch**, J.C. Creed, K.M. Magalhães, E. Fernandez and J.L. Gaeckle. 2006. SeagrassNet monitoring across the Americas: case studies of seagrass decline. *Marine Ecology* 27:277-289.
- Short, F.T., E.W. **Koch**, J.C. Creed, K.M. Magalhães. 2006. SeagrassNet monitoring of habitat change across the Americas. *Biologia Marina Mediterranea* 13:
- Chen, S.-N., L.P. Sanford, E.W. **Koch**, F. Shi, E.W. North. 2007. A nearshore model to investigate the effects of seagrass bed geometry on wave attenuation and suspended sediment transport. *Estuaries* 30(2):
- van den Belt, M., S. Demers, S. Diaz, G.A. Ferreyra, S.M.F. Giancesella, E.W. Koch, F.R. Momo and M. Vernet. 2007. Impacts of enhanced Ultraviolet B Radiation on ecosystem services: mediated modeling for integration of science and stakeholders. In:

#### Technical Reports

- Batiuk, R.A., P. Bergstrom, M. Kemp, E. Koch, L. Murray, J.C. Stevenson, R. Bartleson, V. Carter, N. Rybicki, J. Landwehr, C. Gallegos, L. Karrh, M. Naylor, D. Wilcox, K. Moore and S. Ailstock. 2000. Chesapeake Bay Submersed Aquatic vegetation Water Quality and habitat-based requirements and restoration targets: a second technical synthesis. U.S. EPA Chesapeake Bay Program. (<http://www.chesapeakebay.net/pubs/sav/06.pdf>)
- Moore, K., M. Naylor, S. Marion, N. Rybicki, E. Koch, R. Orth and J. Bortz. 2003.

A strategy to accelerate the protection and restoration of submersed aquatic vegetation in the Chesapeake Bay. SAV Taskgroup Report.  
([http://www.chesapeakebay.net/info/pressreleases/ec2003/SAV\\_strategy.pdf](http://www.chesapeakebay.net/info/pressreleases/ec2003/SAV_strategy.pdf))

Koch, E.W., K.A.M. Englehardt, J.K. Bortz, R.F. Murphy, R.M. Thur, K.A. Yee, and K.G. Sellner. 2004. SAV Restoration Handbook: a guide for restoring SAV on DoD installations; US Department of Defense.

Koch, E.W., L.P. Sanford, S.N. Chen, D.J. Shafer and J.M. Smith. 2006. Waves in seagrass systems: review and technical recommendations. US Army Corps of Engineers Technical Report. Engineer Research and Development Center, ERDC TR-06-15, 82 p. (<http://el.ercd.usace.army.mil/elpubs/pdf/tr06-15.pdf>)

Contributed to the report entitled “Mitigating Shore Erosion Along Sheltered Coasts” of the National Research Council. 2006. National Academy Press, Washington, D.C.

### C. Invited Seminars and Presentations (last 5 years)

Koch, E.W. 2001. Boat-generated waves and SAV habitat quality. SAV Taskgroup, Chesapeake Bay Program.

Koch, E.W. 2001. What can sediments tell us about seagrass habitats? International Seagrass-Watch Volunteers Forum Queensland Fisheries Service, Northern Fisheries Centre, Cairns, Australia. (declined due to Sept 11, 2001 events)

Koch, E.W. 2002. What is limiting the distribution of seagrasses in the coastal bays? Workshop on ‘Understanding the Role of Macroalgae in Shallow Estuaries’. Maryland Department of Natural Resources, Annapolis, MD. (declined due to car accident)

Koch, E.W. 2002. Seagrass-induced transport of particulate matter into permeable sediments. Invited speaker at ASLO Ocean Science Meeting – Special Session on ‘Biophysical Factors Affecting the Growth and Survival of Aquatic Organisms’, Hawaii.

Koch, E.W., R. Newell and R. Hood. 2003 Understanding the relationship between bivalve molluscs and seagrass habitat: new tools for restoration planning. Invited talk at the 4th annual Chesapeake Bay Restoration Workshop, Baltimore, MD.

Koch, E.W, R.R. Hood, M.W. Radcliffe and R.I.E. Newell. 2003. Modeling the influence of filtration by restored bivalve stocks on seagrass growth via sediment dynamics and turbidity in shallow waters. Invited presentation at the Restore America's Estuaries Conference, Baltimore, MD.

Newell, R., E.W. Koch, and R. Hood. 2003 The effects of man-made and biogenic breakwaters on adjacent seagrasses. Invited talk at the special session “Impacts of shoreline modifications on the estuarine nearshore habitat and functions”, Invited talk at the ERF meeting, Seattle, WA.

- Koch, E.W. and J.C. Stevenson. 2003. Linking sea level rise and seagrass distribution via marsh retreat. Invited talk at the “Impacts of Shoreline Modifications on the Estuarine Nearshore“ special session at the ERF meeting, Seattle, WA.
- Koch, E.W. and M. Huettel. 2003. Hydrodynamics in Seagrass Ecology: from Molecules to Ecosystems. Distinguished Guest Lecturer at the University of Maine's Estuary and Coastal Process seminar series
- Koch, E.W. 2003. Seagrasses in Flowing Water: from Molecules to Ecosystems. Invited speaker at EPA, Newport, Oregon.
- Koch, E.W. 2004. Linking adjacent plant and animal communities in Chesapeake Bay: a case study for marshes, seagrasses and oysters. Seminar Series Department of Ocean, Earth and Atmospheric Sciences, at Old Dominion University.
- Koch, E.W. 2004. Water flow in seagrass ecology: from molecules to ecosystems. Invited speaker at the Stazione Zoologica di Napoli (Italy) Seminar Series.
- Koch, E.W. 2005. Key note speaker at the BioFlow workshop in Sylt, Germany. Declined due to personal conflicts.
- Koch, E.W. 2006. SAV habitat requirements other than light. Invited speaker at the Chesapeake Bay Sediment Workgroup meeting, June 29, 2006.
- Koch, E.W. and D. Shaffer. 2006. Sediment dynamics and sediment composition: the key to healthy habitats shoreward of wave-attenuating structures? Invited speaker at the Living Shorelines Summit, Williamsburg, VA, December 2006.
- Koch, E.W. 2006. “Living shorelines: design considerations”. Invited speaker and panel member at the “Design and Technical Considerations for Living Shorelines” session at the Living Shorelines Summit, Williamsburg, VA, December 2006.

#### D. Symposia Organized/Chaired for Professional Meetings

- Organizer, Bi-annual Marine Science Consortium Board of Directors Meeting, Horn Point Laboratory, April 4, 1998.
- Organizer, 1<sup>st</sup> International Workshop on the Effect of UV-B Radiation on Salt Marsh vegetation, Horn Point Laboratory, October 29 – September 4, 1999.
- Chair, Seagrass/SAV growth session, Estuarine Research Federation Meeting, New Orleans, September 29, 1999.
- Co-Chair (Beer and Koch), Biology Session, 4<sup>th</sup> International Seagrass Biology Workshop, Corsica, France, September 26 – October 1, 2000.
- Co-Organizer (MacIntyre and Koch) of a special session on Processes at the Benthic Interface, American Society for Limnology and Oceanography meeting, Albuquerque, February 2001.
- Co-Organizer (Koch and Stevenson) of a special session on Processes Linking Seagrasses and Adjacent Plant and Animal Communities, Estuarine Research Federation Meeting, St. Petersburg, November 2001.

Member of organizing committee of the 7<sup>th</sup> International Seagrass Biology Workshop, Zanzibar, Tanzania, September 2006.

#### E. Active Membership in Professional Societies

Estuarine Research Federation  
 American Society of Limnology and Oceanography  
 American Geological Union  
 Sigma Xi Scientific Research Society

#### IV. Teaching and Training

1995- Member, Graduate Faculty, University of Maryland, MEES.  
 1995- Affiliate Member, Graduate Faculty, University of Maryland, UMCEES.

##### A. University of Maryland Courses Taught

Course No.	Title	Institution	Semester	Enrollment	Credit Hrs	Co-Instructors	No. Lectures
MEES 608W	Wetlands Systems Seminar	HPL	Fall '95	14	1	Kana	2
MEES 698D	Benthic Ecology	HPL	Fall '95	16	3	Tenore, Newell	3
			Fall '97	12	3	Tenore, Newell	4
			Fall '99	11	3	Tenore, Newell	4
			Fall '01	4	3	Marinelli	2
			Spring '04		3	Marinelli	2
MEES 621	Biological Oceanography	HPL	Spring '96	21	3	Fisher, Stoecker	2
			Spring '97	17	3	Stoecker, Hood	6
			Spring '98	21	3	Hood, Stoecker	4
			Spring '99	13	3	Hood, Stoecker	5
			Spring '00	19	3	Hood, Stoecker	7
			Spring '01	11	3	Hood, Stoecker	3
			Spring '02	20	3	Hood, Stoecker	3
			Fall '03	34	3	Hood, Stoecker	4
			Fall '04	8	3	Hood, Stoecker	4
Fall '05	8	4	Hood, Stoecker	4			

			Fall '06	11	4	Hood, Stoecker	4
MEES 622	Biological Oceanographic Methods	HPL	Spring '99	5	1	Hood, Stoecker	1
			Spring '00	6	1	Hood, Stoecker	1
			Spring '01	3	1	Hood, Stoecker	1
			Spring '02	6	1	Hood, Stoecker	1
MEES 645	Ecol. Manag. Wetland SAV Systems	HPL	Spring '96	22	3	Stevenson, Cornwell	2
			Fall '98	8	3	Stevenson	5
			Spring '01	5	3	Stevenson	5
			Fall '04	6	3	Stevenson, Cornwell	2
MEES 608J	Fluid Dynamics in Ecology	HPL	Spring '97	11	1	Sanford	15
			Spring '02	3	1	Sanford	14
MEES 608G	Current Topics in Seagrass and Marsh Ecology	HPL	Spring '98	11	1		16
MSCI 656	Seagrass Ecosystems	VIMS	Spring '05	6	2	Orth, Moore	1

## B. Graduate Students Supervised as Major Advisor

### 1. Degrees Completed

Guarraci, Meredith J. 1999. M.S.; Ecology, Horn Point Laboratory. "Interaction between epiphyte biomass and resuspended inorganic material on leaves of natural and artificial submersed aquatic vegetation."

Kluenenberg, Alycia. 2000. M.S.; Ecology, Horn Point Laboratory. "The effect of UV-B radiation on salt-marsh vegetation."

Chiscano, Carina. 2000. M.S.; Environmental Science, Horn Point Laboratory. "The effects of wave exposure on submersed aquatic vegetation."

Huber, Caroline. 2003. M.S.; Technische Universität Hamburg-Harburg, Germany.  
“Wave attenuation in canopies of *Zostera marina*.” Co-advisor with Dr. Pasche.  
Award: best graduate thesis in 2003.

Magalhães, Karine. 2004. Ph.D.; Universidade Federal Rural de Pernambuco, Brazil.  
“Habitat requirements of the seagrass *Halodule wrightii* in Pernambuco, Brazil.”  
Co-advisor with Dr. Sonia Barreto Pereira)

Wicks, Elinor Caroline. 2005. M.S. Environmental Science, Horn Point Laboratory.  
“The effect of sea level rise on seagrasses: is sediment adjacent to retreating  
marshes suitable for seagrass growth?”

DiCarlo, Giuseppe. 2006. Post-doctoral fellow.

## 2. Students Currently Supervised

Jordan, Terry. 2008. Ph.D. Environmental Science, Horn Point Laboratory.  
“Hydrodynamically mediated acclimation in marine macrophytes.”

McKone, Katie. 2009. M.S. Environmental Science, Horn Point Laboratory. “Flow,  
flapping and light availability on *Zostera marina* leaves”

## 3. Current Graduate Student Committee Memberships

Lauren McChesney	M.S.	MEES	Appalachian Laboratory
Todd Beser	M.S.	MEES	Appalachian Laboratory
Stephanie Toro	M.S.	Dauphin Marine Laboratory,	Alabama

## 4. Research Internships Supervised

Chris Raleigh	undergraduate student, Kutztown University	Summer 1996	REU Fellow	The effect of UV-B on marsh vegetation
Julie Vecchio	undergraduate student, Albion College	Summer 1998	REU Fellow	Resuspension of microphytobenthos
Randy Lee	undergraduate student, California State Univ.	Summer 1999	REU Fellow	Interaction between seagrass epiphytes and water flow
Jennifer Sallee	undergraduate student Roger Williams Univ.	Summer 2000	REU Fellow	The effect of sedimenta- tion on the growth of SAV meadows and canopies
Leslie Brandt	undergraduate student Gustavus Adolphus Coll.	Summer 2001	REU Fellow	Epiphytic layers as UV-B filters on seagrass leaves

Sarah R. Stein	undergraduate student University of Vermont	Summer 2002	REU Fellow	The demise and recovery of a seagrass habitat due to a barrier island overwash
Christina Geirman	undergraduate student Michigan State University	Summer 2003	REU Fellow	The effect of a breakwater on a seagrass habitat

## V. Outreach and Service

### A. Editorships

Articles Reviewed for: AMBIO, American Journal of Botany, Aquatic Botany, Aquatic Sciences, Botanica Marina, Bulletin of Marine Sciences, Continental Shelf Research, Estuaries, Estuarine Coastal and Shelf Science, Harmful Algae, Journal of Coastal Research, Journal of Experimental Biology, Journal of Experimental Marine Biology and Ecology, Journal of Marine Systems, Journal of Phycology, Journal of Plant Ecology, Limnology and Oceanography, Marine Biology, Marine Ecology Progress Series, Restoration Ecology, Wetlands

### B. Public Service

- 1999 Dorchester County Teachers Inservice Seminars (2), Americans for the Competitive Enterprise System.  
 SAV in Chesapeake Bay – presentation for the REU Summer Students.  
 The impact of wave energy on SAV habitats in Chesapeake Bay – SAV Workgroup Presentation, Gloucester Point, VA.  
 SAV Problems in the Smith Island Area – Public Information Meeting, Tylerton, MD.  
 SAV and dredging in Chesapeake Bay – Coordination Meeting, US Corps of Engineers, Baltimore, MD.
- 2004 Guest lecturer in the course entitled “Perspectives on the Chesapeake Bay” taught at Washington College – “Submerged Aquatic Vegetation – Keystone for habitat, bellweather for healthy systems.”

### C. Federal/State/Local Government

- 1996 SAV Workgroup - Chesapeake Bay Program (CBP)  
 SAV Habitat Requirements Review Workgroup/Technical Synthesis II (CBP)  
 Workshop on using a risk-based approach to consider dispersant use in the upper 10 meters of coastal waters - Scientific Environmental Associates, Inc., VA.
- 1997 SAV Workgroup (CBP)  
 SAV Habitat Requirements Review Workgroup/Technical Synthesis II (EPA-CBP)  
 Workshop on SAV restoration in Chesapeake Bay (MD DNR)  
 SAV exclusion zone taskforce (CBP)
- 1998 NSF Scientific Advisory Committee, Inter-American Institute for Global Change

- Research (declined the invitation due to conflict in scheduled activities)
- SAV Workgroup (Chesapeake Bay Program – CBP)
- SAV Habitat Requirements Review Workgroup/Technical Synthesis II (EPA-CBP)
- SAV/Claming Taskforce (MD DNR)
- Tangier Sound SAV Workgroup (Chesapeake Bay Foundation)
- 1999 NSF Panel, GEO - Professional Opportunities for Women in Research and Education
- SAV Workgroup (Chesapeake Bay Program – CBP)
- SAV Habitat Requirements Review Workgroup/Technical Synthesis II (EPA-CBP)
- Tangier Sound SAV Workgroup (Chesapeake Bay Foundation)
- SAV and Dredging Workgroup (US Corps of Engineers)
- 2000 Chesapeake Bay SAV Task Group
- Chesapeake Bay Tidal Habitat Steering Committee
- Chesapeake Bay Tidal Habitat Workgroup
- SAV Workgroup for the Coastal Bays (Coastal Bays Program)
- SAV Workgroup for the Coastal Bays Comprehensive Management Plan
- 2001 Chesapeake Bay SAV Task Group
- Chesapeake Bay Tidal Habitat Steering Committee
- Chesapeake Bay Tidal Habitat Workgroup
- 2002 Chesapeake Bay SAV Task Group
- Chesapeake Bay Tidal Habitat Steering Committee
- Development of new SAV restoration strategy for the Chesapeake Bay
- 2003 Chesapeake Bay SAV Task Group
- 2004 Maryland Coastal Bays STAC
- Chesapeake Bay SAV Task Group
- 2005 Maryland Coastal Bays STAC
- Chesapeake Bay SAV Task Group
- 2006 Maryland Coastal Bays STAC
- Chesapeake Bay SAV Task Group
- SAV Seed Ecology Workshop Steering Committee

#### D. International

- 1996 Seagrass Ecology and Physiology Course at the University of Dar es Salaam, Zanzibar, Tanzania.
- 1997 Training of Brazilian and Argentinian scientists in studies on the effect of UV radiation on salt-marsh vegetation.
- 1998 Development of the Global Seagrass Network, initiated in the Philipinnes.
- 1999 Organized the 1<sup>st</sup> Workshop on the Effect of UV-B on Salt Marshes, held at Horn Point in August/September 1999
- 1999 Global Seagrass Network (SeagrassNet) Steering Committee
- 2000 World Seagrass Association (member-at-large)
- 2001 World Seagrass Association (member-at-large)
- 2001 Thesis examiner, University of Western Australia.
- 2001 Invited member of the Seagrass Working Group for the creation of a report on the Global Status of Seagrass Ecosystems, World Conservation Monitoring Centre.

- 2002 World Seagrass Association (member-at-large)
- 2003 World Seagrass Association (member-at-large)
- 2004 World Seagrass Association (member-at-large)
- 2005 World Seagrass Association (member-at-large)  
International representative of the organizing committee for the 7<sup>th</sup> International Seagrass  
Biology Workshop to take place in Zanzibar, Africa in 2006.
- 2006 Training Course in Seagrass Research Methods, Zanzibar, September 2006

University System of Maryland

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E. UMCES and Laboratory (last 5 years)

- 2000 Scuba-diving committee (Chair)  
UMCES Dive Safety Board  
Marine Science Consortium Board of Directors  
UMCES Forum on Restoration Ecology
- 2001 UMCES Graduate Faculty Council  
Scuba-diving committee (Chair)  
UMCES Dive Safety Board  
Post-doctoral Search Committee (Chair)  
Marine Science Consortium Board of Directors  
UMCES Forum on Wetlands
- 2002 Scuba-diving committee (Chair)  
UMCES dive safety board  
Post-doctoral search committee (Chair)  
Open House committee
- 2003 Scuba-diving committee (Chair)  
UMCES dive safety board
- 2004 Scuba-diving committee (Chair)  
UMCES dive safety board  
Education committee  
Boating committee  
Ecology AOS selection committee  
Restoration section of the UMCES strategic plan (discussion and write up)  
Tenure evaluation committee  
Recycling team
- 2005 Scuba-diving committee (Chair)  
UMCES dive safety board  
Education committee  
Boating committee  
Ecology AOS selection committee  
Tenure evaluation committee  
Coastal Sedimentologist search committee  
Recycling team
- 2006 Education committee (Chair)  
Ecology AOS selection committee  
Recycling team

F. Other Professional Services

- 1999 Judge at the Estuarine Research Federation Meeting, New Orleans.