

CURRICULUM VITAE

PATRICIA MARGUERITE GLIBERT

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I. Education

1974	BA	Skidmore College, Saratoga Springs, NY, Biology [<i>Phi Beta Kappa</i>]
1976	MS	University of New Hampshire, Earth Sciences
1982	PhD	Harvard University, Organismal and Evolutionary Biology

II. Professional Background

1981 - 1982	Postdoctoral Scholar, Woods Hole Oceanographic Institution
1982 - 1986	Assistant Scientist, Woods Hole Oceanographic Institution
1986 - 1989	Assistant Research Scientist, University of Maryland Center for Environmental Science, Horn Point Laboratory.
1989 - 1993	Associate Professor, University of Maryland Center for Environmental Science, Horn Point Laboratory.
1993 - present	Professor, University of Maryland Center for Environmental Science, Horn Point Laboratory.

III. Recent Honors and Awards

2006. Recipient of the University of Maryland Board of Regents Award for Excellence in Research, Scholarship and Creative Activity

IV. Research

A. Research Interests

Transformations and fate of inorganic and organic nitrogen in marine and estuarine systems; ecology of phytoplankton in coastal and oceanic environments; stable isotope techniques; eutrophication, its effects and global changes therein; growth and physiology of marine cyanobacteria and harmful algal bloom species; “top-down” control of nitrogen cycling; primary productivity and its regulation by environmental factors; impacts of harmful algae on oysters.

B. Peer-Reviewed Publications (2003-2007)

2003

Fan, C., P.M. **Glibert**, J. Alexander, M.W. Lomas. 2003. Characterization of urease activity in three marine phytoplankton species. *Mar. Biol.* 142: 949-958.

Mulholland, M.R., C. Lee, and P.M. **Glibert**. 2003. Extracellular enzyme activity and uptake of carbon and nitrogen along an estuarine nutrient and salinity gradient. *Mar. Ecol. Prog. Ser.* 258: 3-17.

Fan, C., P.M. **Glibert**, and J. M. Burkholder. 2003. Characterization of the nitrogen uptake kinetics of *Prorocentrum minimum* in natural blooms and laboratory cultures. *Harmful Algae*.2: 283-299.

2004

Glibert, P.M., C.A. Heil, D. Hollander, M. Revilla, A. Hoare, J. Alexander, and S. Murasko. 2004. Evidence for dissolved organic nitrogen and phosphorus uptake during a cyanobacterial bloom in Florida Bay. *Mar. Ecol. Prog. Ser.* 280: 73-83

Dennison, W.C., T.J.B. Carruthers, J.E. Thomas, and P.M. **Glibert**. 2004. A comparison of issues and management approaches in Chesapeake Bay, USA, and Moreton Bay, Australia. In: W.H. Wong (ed), *Developments in ecosystems*, Vol. 1, Elsevier.

Trice, T.M., P.M. **Glibert**, C. Lea, and L. Van Heukelem. 2004. HPLC pigment records provide evidence of past blooms of *Aureococcus anophagefferens* in the Coastal Bays of Maryland and Virginia, USA. *Harmful Algae*. 3: 295-304.

Wazniak, C.E. and P.M. **Glibert**. 2004. Potential impacts of brown tide, *Aureococcus anophagefferens*, on juvenile hard clams, *Mercenaria mercenaria*, in the Coastal Bays of Maryland, USA. *Harmful Algae*. 3: 321-329.

Glibert, P.M. and R.E. Magnien. 2004. Harmful algal blooms in the Chesapeake Bay, USA: Common species, relationships to nutrient loading, management approaches, successes, and challenges, pp. 48-55. In: Hall, S., D. Anderson, J. Kleindinst, M. Zhu, and Y. Zou (eds), *Harmful Algae Management and Mitigation*. Asia-Pacific Economic Cooperation (Singapore): APEC Publication #204-MR-04.2.

Zhang, X., R.E. Hood, M.R. Roman, P.M. **Glibert**, and D. K. Stoecker. *Pfiesteria piscicida* population dynamics: A modeling study. 2004. In: K.A. Steidinger, J.H. Landsberg, C.R. Tomas, and G.A. Vargo (eds), *Harmful Algae 2002, Proceedings of the Xth International Conference on Harmful Algae*. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceanographic Commission of UNESCO. Pp. 528-530.

Glibert, P.M., J. Alexander, T.M. Trice, B. Michael, R.E. Magnien, L. Lane, D. Oldach, and H. Bowers. Chronic urea nitrogen loading: A Correlate of *Pfiesteria* spp. in the Chesapeake and Coastal Bays of Maryland. 2004. In: K.A. Steidinger, J.H. Landsberg, C.R. Tomas, and G.A. Vargo (eds), *Harmful Algae 2002, Proceedings of the Xth International Conference on Harmful Algae*. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceanographic Commission of UNESCO. Pp. 74-76.

2005

Glibert, P.M. and K.G. Sellner. 2005. Preface to the special issue on *Prorocentrum minimum*. *Harmful Algae* 4: 446.

Heil, C.A., P. M. **Glibert** and C. Fan. 2005. *Prorocentrum minimum* (Pavillard) Schiller –A review of a harmful algal bloom species of growing worldwide importance. *Harmful Algae* 4: 449-470.

- Springer, J.J., J.M. Burkholder, H.B. Glasgow, P.M. **Glibert**, and R.E. Reed. 2005. Use of a real-time monitoring network (RTRM) and shipboard sampling to characterize a dinoflagellate bloom in the Neuse Estuary, North Carolina, U.S.A. *Harmful Algae* 4: 553-574.
- Fan, C., and P.M. **Glibert**. 2005. Effects of light on carbon and nitrogen uptake during a *Prorocentrum minimum* bloom. *Harmful Algae* 4: 629-642.
- Glibert**, P.M., T.M. Trice, B. Michael, and L. Lane. 2005. Urea in the tributaries of the Chesapeake and Coastal Bays of Maryland. *Water, Air and Soil Poll.* 160: 229-243.
- Glibert**, P.M. and G.C. Pitcher. 2005. Special issue on Harmful Algal Blooms. *Oceanography* 18(2): 134-135.
- Glibert**, P.M., D.M. Anderson, P. Gentien, E. Graneli, and K.G. Sellner. 2005 The global, complex phenomena of harmful algal blooms. *Oceanography* 18 (2): 136-147 [Contribution No. 3836]
- Glibert**, P.M. S. Seitzinger, C.A. Heil, J.M. Burkholder, M.W. Parrow, L.A. Codispoti, and V. Kelly. 2005. The role of eutrophication in the global proliferation of harmful algal blooms: new perspectives and new approaches. *Oceanography* 18 (2): 198-209.
- Revilla, M., J. Alexander, and P.M. **Glibert**. 2005. Urea analysis in coastal waters: comparison of enzymatic and direct methods. *Limnol. Oceanogr. Methods*. 3: 290-299
- Kemp, W.M., W.R. Boynton, J.E. Adolf, D.F. Boesch, W.C. Boicourt, G. Brush, J.C. Cornwell, T.R. Fisher¹, P.M. **Glibert**, J.D. Hagy, L.W. Harding, E.D. Houde, D.G. Kimmel, W.D. Miller, R.I.E. Newell, M. R. Roman¹, E.M. Smith, J.C. Stevenson. 2005. Eutrophication in Chesapeake Bay: Historical trends and ecological interactions. *Mar. Ecol. Prog. Ser.* 303: 1-29.
- Glibert**, P.M. and C. Heil. 2005. Use of urea fertilizers and the implications for increasing harmful algal blooms in the coastal zone. Science Press USA Inc., 541

2006

- Glibert**, P.M. and C. Legrand. 2006. The diverse nutrient strategies of HABs: Focus on osmotrophy. pp 163-176 in: E. Graneli and J. Turner (eds), *Ecology of Harmful Algae*. Springer.
- Glibert**, P.M. and J.M. Burkholder. 2006. The complex relationships between increasing fertilization of the earth, coastal eutrophication and proliferation of harmful algal blooms. pp 341-354 in: E. Graneli and J. Turner (eds), *Ecology of Harmful Algae*. Springer.
- Glibert**, P.M. and J.M. Burkholder. 2006. The emerging consensus on the ecology of *Pfiesteria*: Preface to the special issue. *Harmful Algae*. 5: 339-341.
- Glibert**, P.M., J.M. Burkholder, M.W. Parrow, A.J. Lewitus, and D. Gustafson. 2006. Rates of direct uptake of nitrogen and nitrogen nutritional preferences by functional types of *Pfiesteria piscicida* and *Pfiesteria shumwayae*. *Harmful Algae*. 5: 380-394.
- Hood, R., X. Zhang, P.M. **Glibert**, M.R. Roman and D. Stoecker. 2006. Modeling the influence of nutrients, turbulence and grazing on *Pfiesteria* dynamics. *Harmful Algae*. 5: 459-479.

Glibert, P.M., C.A. Heil, J.M. O'Neil, W.C. Dennison and M. J.H. O'Donohue. 2006. Nitrogen, phosphorus, silica and carbon in Moreton Bay, Queensland, Australia: Differential limitation of phytoplankton biomass and production. *Estuaries and Coasts* 29: 107-119.

Glibert, P.M., J. Harrison, C. Heil, and S. Seitzinger. 2006. Escalating worldwide use of urea – a global change contributing to coastal eutrophication. *Biogeochemistry* 77:441-463.

Wiegner, T.N., S.P. Seitzinger, P.M. **Glibert** and D.A. Bronk. 2006. Bioavailability of dissolved organic nitrogen and carbon from nine rivers in the eastern United States. *Aq. Microb. Ecol.* 43: 277-287.

Burkholder, J.M. and P. M. **Glibert.** 2006. Intraspecific variability: An important consideration in forming generalizations about toxigenic algal species. *S. Africa J. Mar. Sci.* 28: 177-180. [

2007 and In press

Heil, C.A., M. Revilla, **P.M. Glibert** and S. Murasko. 2007. Nutrient quality drives phytoplankton community composition on the West Florida Shelf. *Limnology Oceanogr.* 52: 1067-1078.

Kennish, M., S.B. Bricker, W.C. Dennison, **P.M. Glibert**, R.J. Livingston, K.A. Moore, R.T. Noble, H.W. Paerl, J. Ramstack, S. Seitzinger, D.A. Tomasko, and I. Valiela. 2007. Barnegat Bay-Little Egg Harbor Estuary: Case study of a highly eutrophic coastal bay system. *Ecol. Applications.* 17(5):S3-S16.

Glibert, P.M., C.E. Wazniak, M. Hall and B. Sturgis. 2007. Seasonal and interannual trends in nitrogen in Maryland's Coastal Bays and relationships with brown tide. *Ecol. Applications* 17 (5): S79-S87.

Solomon, C.M., J.A. Alexander and **P.M. Glibert.** 2007. Measuring urease in environmental samples. *Limnol. Oceanogr. Methods.* 5: 280-288.

Glibert, P.M., J. Alexander, D.W. Meritt, E.W. North and D.K. Stoecker. 2007. Harmful algae pose additional challenges for oyster restoration: Impacts of the harmful algae *Karlodinium veneficum* and *Prorocentrum minimum* on early life stages of the oysters *Crassostrea virginica* and *Crassostrea ariakensis*. *J. Shellfish Res.* 26(4): 1-7

Li, J., **P.M. Glibert,** S. Lu, X. Shi and C. Zhang. Nitrogen uptake rates during a *Karenia mikimotoi* bloom in the East China Sea, 2005, and variation with nitrogen and phosphorus status. Proceedings XII International HAB Conference.

Alexander, J.A. D. K. Stoecker, D. W. Meritt, S. T. Alexander, A. Padeletti, D. Johns, L. Van Heukelem and **P. M. Glibert.** Differential feces and pseudofeces production by the oyster *Crassostrea ariakensis* when exposed to diets containing harmful dinoflagellate and raphidophyte species. *J. Shellfish Res.* In press.

Glibert, P.M. Eutrophication and Harmful Algal Blooms: A Complex Global Issue, Examples from the Arabian Seas including Kuwait Bay, and an Introduction to the Global Ecology and Oceanography of Harmful Algal Blooms (GEOHAB) Programme. *International Journal of Oceans and Oceanography.* In press.

Stoecker, D.K., J.E. Adolf, A.R. Place, **P.M. Glibert,** and D. Meritt. Effects of the dinoflagellates *Karlodinium veneficum* and *Prorocentrum minimum* on early life history stages of the Eastern Oyster, *Crassostrea virginica*. *Marine Biology.* In Press.

Heisler, J., **P. Glibert**, J. Burkholder, D. Anderson, W. Cochlan, W. Dennison, Q. Dortch, C. Gobler, C. Heil, E. Humphries, A. Lewitus, R. Magnien, H. Marshall, K. Sellner, D. Stockwell, D. Stoecker, and M. Suddleson. 2008. Eutrophication and harmful algal blooms: A scientific consensus. *Harmful Algae*. In press.

Glibert, P.M. and G.M. Berg. Nitrogen form, fate and phytoplankton composition. In: Kennedy, V.S., W.M. Kemp, J.E. Peterson and W.C. Dennison (eds), *Experimental Ecosystems and Scale: Tools for Understanding and managing coastal ecosystems*. Springer.

C. Peer-Reviewed Reports

2003

GEOHAB, 2003. Global Ecology and Oceanography of Harmful Algal Blooms, Implementation Plan. P. Gentien, G. Pitcher, A. Cembella and P. **Glibert** (eds.). SCOR and IOC, Baltimore and Paris. 36 pp.

EU-US Scientific Initiative on Harmful Algal Blooms: Workshop Report. 2003. P. **Glibert** et al. (eds). European Commission- Environment and Sustainable Development Programme and the U.S. National Science Foundation, Luxembourg, 57 pp.

Innovation in agricultural conservation for the Chesapeake Bay- evaluating progress and addressing future challenges. 2003. T. Simpson et al. (eds). USDA-ARS

2005

HARRNESS 2005. Ramsdell, J.S., D.M. Anderson, and P.M. **Glibert**, eds. Harmful Algal Research and Response: A National Environmental Science Strategy 2005-2015. Ecological Society of America, Washington D.C., 100 pg.

2006

GEOHAB 2006. Global Ecology and Oceanography of Harmful Algal Blooms: Eutrophication and HABs. P. **Glibert**, ed. IOC and SCOR, Paris and Baltimore. In press.

2008

EPA, Estuarine Nutrient Criteria Development, State of the Science. **P. Glibert**, C. Madden, W. Boynton, C.D. Flemer, C. Heil and J. Sharp (eds). 200 pg. In review.

Research, Development, Demonstration and Technology Transfer on Methods to Reduce the Impacts of Harmful Algal Blooms. Q. Dortch, D. Anderson, P. Glibert, and D. Ayers (eds). 100 pg. In review.

E. Contracts and Grants

1. Awarded

a. Active

NOAA. MERHAB 2004: *In situ* Nutrient Monitoring and Eutrophication-related Blooms. P. Glibert and L. Codispoti. \$299,842. 4/1/04-3/30/07.

NOAA Chesapeake Bay Program Office. The use of non-native oysters in the restoration of Chesapeake Bay oyster populations and the potential threats posed by harmful algae. P. Glibert, P.I., D. Stoecker and D. Meritt, co-P.I.'s. \$156,130. 9/1/04-8/31/05

NOAA, South Florida Program. SFP2006: Measuring and modeling nutrient uptake in Florida Bay. P. Glibert, P.I., C. Madden, C. Heil and S. Seitzinger, co-PI.s. \$400,000. 4/1/06-3/31/08.

UMCES Foundation. HAB Culture Studies. \$20,000. 1/1/07- 12/31/08.

MD DNR. In situ nutrient monitoring. P. Glibert, L. Codispoti, co-PI's \$8665 . 7/1/07-6/30/08

b. Terminated (2003-2007)

NSF Biol. Oceanogr. A Joint ECOHAB-EUROHAB Workshop. P.Glibert, P.I. 1 March 2002 – 28 February 2003. \$65,000. [5% effort]

NOAA SFP2002: From source to sink: Assessment and monitoring of dissolved nitrogen cycling within Florida Bay. C. Heil, D. Hollander, P. Glibert, co-P.I.'s 1 March 2002- 28 February 2004. \$87,578 (P. Glibert component). [10% effort]

NOAA ECOHAB. Toxic dinoflagellates and nutrients. Toward a mechanistic understanding of outbreaks of *Pfiesteria* and related dinoflagellates: A regional comparative study. P. Glibert, P.I., 11 co-P.I.'s. July 1, 1998 - June 30, 2003. \$ 6,035,205. [35% effort]

NSF Biol. Oceanogr. Biocomplexity of aquatic microbial systems: Relating diversity of microorganisms to ecosystem function. P. Glibert, T. Kana component. 1 April, 2000- 31 March, 2005. \$1,457,352. [20% effort]

NSF-OCE. Student support. \$12,000 [to support Carrie Solomon's needs]

MD Sea Grant. Producing and Deploying an Autonomous Urea Monitor. P. Glibert and L. Codispoti. 1 March 2004-28 February 2005. \$78,573. [10% effort]

NJ Sea Grant. Harmful Algal Blooms (HABs) in Coastal Waters of New Jersey and the Mid-Atlantic Region: Importance of dissolved organic nitrogen in stimulating growth. S. Seitzinger and P. Glibert. 1 May 2004-30 April 2006. \$56,000. [5% effort]

NOAA. SFP2004: From source to sink: Linking inorganic and bioavailable organic nutrients to microbial dynamics in Florida Bay. C. Heil, P. Glibert and D. Hollander. 1 May 2004-30 April 2006. \$67,579. [15% effort]

MD Sea Grant. Tracking the source of nutrients fueling brown tides in the Coastal Bays of Maryland. P. Glibert, P.I., L. Codispoti, co-PI. \$ 157,170. 2/1/05-1/31/07.

2. Pending

NOAA ECOHAB. Eutrophication and HABs on the US East Coast: A cross-regional comparison. : \$5,117,187 . **P. Glibert**, PI, 11 co-PI's. 6/1/08-5/31-13

NOAA ECOHAB. HABs and oyster larvae: Incorporating early life stage impacts into a larval transport model for Chesapeake Bay. **P. Glibert**, PI, D. Stocker, D. Meritt and E. North, co-PIs. \$373557 (all PIs). 6/1/08-5/31/11.

NOAA Mid Atlantic, MA08: Cumulative development stressors in the Mid-Atlantic: From measurements to forecast models and integrated assessments. **P. Glibert**, PI, 11 co-PI's. \$4,991,940. 6/1/08-5/31/13.

NOPP. Transitioning Autonomous *In Situ* Nutrient Monitoring to Operational Status for HAB Modeling and Forecasts. **P. Glibert**, PI, L. Codispoti, R. Hood, co-PI's. \$1,452,265. 6/1/08-5/31/11.

NSF. RIG: Broadening Participation of Deaf and Hard-of-Hearing Scientists through Laboratory Studies of a Harmful Algal Species. C. Solomon, PI, **P. Glibert**, subcontractor. \$50,000. 6/1/08-5/31/10.

MD Sea Grant. Impacts of several harmful algal blooms species on early life stages of the oyster *Crassostrea virginica*. **P. Glibert**, PI, D. Meritt, co-PI. : \$149,403. 2/1/08-1/31/10.

F. Seminars and Presentations (2003-2007)

Glibert, P.M. 2003. The composition – not just the total quantity- of the nutrient pool impacts HAB development. Special symposium on Eutrophication and HABs, January 2003. Cambridge, MD. **Invited.**

Glibert, P.M. 2003. New technologies for coastal and estuarine monitoring: Applications for harmful algal blooms. ASLO Salt Lake City. Feb. 2003. **Invited Tutorial.**

Glibert, P.M. 2003. Potential direct and indirect living resource impacts of *Prorocentrum minimum* blooms, Part 2. Maryland DNR Special Symposium on *Prorocentrum* spp., April 2003. **Invited**

Glibert, P.M. 2003. Stoichiometry of the dissolved and particulate nutrient pools, phytoplankton uptake rates, and their relationship with phytoplankton community composition in Florida Bay. Joint conference on the science and restoration of the greater Everglades and Florida Bay ecosystem. April 2003. Palm Harbor, Florida.

Glibert, P.M. 2003. The value of *in situ* nutrient detection in studies of harmful algal blooms. Special symposium, Maryland DNR. **Invited**

Glibert, P.M. 2003. Harmful algal blooms and ecosystem health. The Oceanography Society. New Orleans, June 2003. **Invited.**

- Glibert, P.M. 2003. The second worst environmental disaster in Kuwait. Union College. April 2003. **Invited.**
- Glibert, P.M. 2003. International programs and opportunities. Second Symposium on harmful marine algae in the U.S., Woods Hole, December 2003. **Invited**
- Glibert, P.M. 2003. Direct uptake of inorganic and organic nitrogen by *Pfiesteria piscicida* and *Pfiesteria shumwayae*.
- Glibert, P. 2004. Urea got a hold on me! Woods Hole Oceanographic Institution, Feb 2004
- Glibert, P. 2004. Urea got a hold on me! Horn Point Laboratory, March 2004
- Glibert, P. 2004. Nutrient inputs and phytoplankton blooms: It's quality not just quantity that counts. Impacts to coastal systems Symposium 2004, Rutgers University, March 2004
- Glibert, P.M. 2004. The global increase in use of urea fertilizers and the implications for increasing harmful blooms in the coastal zone. N2004, Nanjing China.
- Glibert, P.M. 2004. Eutrophication and HABs – Impacts of Global Changes in Fertilizer Use. XI Conference on HABs, Cape Town, S. Africa. **Invited Plenary.**
- Glibert, P.M. J.J. Evans, P.H. Klesius, C.A. Shoemaker, and J.A. Alexander. 2005. Comparison of two fish kill events involving human bacterial pathogens: Influence of environmental stressors and harmful algae AGU-ASLO, Salt Lake City.
- Glibert, P.M. C. A. Heil, J. Alexander, M. Revilla, and S. Musasko. 2005. Urea is a good predictor of cyanobacteria in Florida Bay and on the western Florida Shelf. 3rd Symposium on HABs in the U.S., Monterey CA, October 2005.
- Glibert, P.M., J. Ramsdell and D. Anderson. 2005. Harmful Algal research and Response: An environmental science strategy. 3rd Symposium on HABs in the U.S., Monterey CA, October 2005. **Invited.**
- Glibert, P.M. HABs and eutrophication- a synthesis. ERF Meeting, Norfolk, VA, October 2005. **Invited.**
- Glibert, P.M. 2005. Brown tides and Eutrophication. Brown tide symposium for managers, Yapank, NY, November 2005. **Invited**
- Glibert, P.M. 2005. National and international programs on HABs. Brown tide symposium for managers, Yapank, NY, November 2005. **Invited**
- Glibert, P.M. C. A. Heil, J. Alexander, M. Revilla, S. Murasko, A. Hoare, J. O'Neil, W.C. Dennison and D. Hollander. 2005. Organic and Inorganic Nutrients, Rates of Phytoplankton Nutrient Uptake, and Their Relationship with Phytoplankton Community Composition in Florida Bay and in a Comparative Subtropical Ecosystem in Australia. Florida Bay Science Conference, Duck Key, FL, December 2005.
- Glibert, P.M. Maryland's Coastal Bays. EPA Expert Workgroup on Nutrients in Estuaries Meeting, San Francisco, May 2006.

- Glibert, P.M., C.A. Heil, J. Alexander, M. Revilla, and S. Murasko. 2006. Urea uptake is positively correlated with the fraction of cyanobacteria in Florida coastal waters. ASLO, Victoria, Canada, June 2006.
- Glibert, P.M. Maryland's Coastal Bays. Coastal Bay's STAC Meeting, July 2006.
- Glibert, P.M., S. Seitzinger, R.W. Howarth, J. Burkholder. 2006. Eutrophication and HABS- A Global Change Perspective. 12th International HAB Symposium. Copenhagen, Sept. 2006.
- Glibert, P.M. 2006. HABS and Eutrophication. Cornell University, **Invited seminar**, Nov. 2006.
- Glibert, P.M. 2007. Effects of several common HAB species from Chesapeake Bay on early life history stages of *Crassostrea virginica* and *C. ariakensis*. February 2007. Web-seminar from Horn Point Laboratory.
- Glibert, P.M. 2007. HABS and Eutrophication. University of Helsinki, **Invited seminar**, January 2007.
- Glibert, P.M. 2007. HABS and Eutrophication and Introduction to the GEOHAB Programme. The Arabian Seas International Conference on Science and Technology of Aquaculture, Fisheries and Oceanography, Kuwait, February 2007. **Invited plenary**.
- Glibert, P.M. 2007. A review of the 2001 Kuwait Fish Kill. The Arabian Seas International Conference on Science and Technology of Aquaculture, Fisheries and Oceanography, Kuwait, February 2007
- Glibert, P.M. 2007. Harmful Algal Blooms- Increasing prevalence of microbial toxins and impacts. American Museum of Natural History, Special Symposium on Microbes, New York City, April 2007. **Invited Plenary**.
- Glibert, P.M. 2007. Harmful Algal Blooms- Increasing prevalence of microbial toxins and impacts. International Whaling Commission Science Symposium, Alaska, May 2007. **Invited**.
- Glibert, P.M. 2007. Eutrophication and HABS: Linking new insights in HAB physiology with trends in coastal nutrient loading. Hong Kong Conference on Enhancing Cross-Border Environmental Cooperation, June 2007. **Invited**.
- Glibert, P.M. 2007. HARRNESS: The US National Plan for Harmful Algae. Workshop on Research, Development, Demonstration and Technology Transfer, Woods Hole, June 2007. **Invited**.
- Glibert, P.M. 2007. HABS and Eutrophication. Hong Kong University of Science and Technology, **Invited seminar**, June 2007.
- Glibert, P.M. 2007. Aquatic eutrophication and Harmful Algal Bloom global expansion. Fourth International Conference on Nitrogen, Brazil, October 2007.
- Glibert, P.M., J. Alexander, D. Stoecker, E. North and D. Meritt. 2007. Impacts of eutrophication-related blooms of *Prorocentrum minimum* and *Karlodinium veneficum* on early life stages of oysters in Chesapeake Bay. 4th US Symposium on Harmful Algae, Woods Hole, October 2007.
- Glibert, P.M., C. Heil, J. Alexander, S. Murasko, M. Revilla and M. Neely. 2007. Role of Dissolved Organic Material in Supporting Microalgal Communities in Florida Bay. ERF 2007, Providence, November 2007.

Glibert, P.M. and C. Heil. 2008. Role of Dissolved Organic Material in Supporting Microalgal Communities in Florida Bay. Special DOM Workshop on Florida Bay, Miami, January 2008. **Invited.**

G. Meetings and symposia organized (2003-2007)

Co-convener, Roundtable Discussion of the Link Between Water Quality and Harmful Algal Blooms January 29-30, 2003, Hyatt Chesapeake Bay, Cambridge, MD. 25 attendees.

Co-convener, Special symposium on the impacts of *Prorocentrum minimum*, April 2003, Maryland DNR. 25 attendees.

Steering committee member, The Oceanography Society Meeting, New Orleans, June 2003.

Steering committee member, Second Symposium on Harmful Marine Algae in the U.S., Woods Hole, December 2003. 210 attendees.

Convener, GEOHAB Open Science Meeting on HABs and Eutrophication, Baltimore, March 2005. 130 attendees.

Special session chair. HABs and eutrophication. ASLO 2005, Santiago

Steering committee member, Third Symposium on Harmful Marine Algae in the U.S., Monterey, CA. 180 attendees.

Special session chair. Harmful algal blooms. ERF 2005, Norfolk, VA.

Co-convener, ASLO 2006, Victoria Canada. ~1500 attendees.

Steering Committee member, NOAA workshop on Research, Development and Technology Transfer of Harmful Algal Blooms, Woods Hole, July 2007, 45 attendees.

Special session chair, Florida Bay, ERF 2007, Providence

Steering Committee Member, 2nd Asian GEOHAB Meeting, Nha Trang, Vietnam, January 2008.

H. Membership in Professional Societies

American Society for Limnology and Oceanography;
American Geophysical Union;
The Oceanography Society;
Estuarine Research Federation- **Secretary 2007-2010**;
International Society for the Study of Harmful Algae

V. Teaching and Training

1986- present Member, UMCES Graduate Faculty
1986- present Member, USM Graduate Faculty

A. Courses Taught at U. MD

1. Credit

Course No	Title	Institution	Semester	Enrollment	Credit Hrs.	Co-Instruc.	No. lectures
MEES 721	Plankton Dynamics	UMCP	Spring 2001	10	3	M. Roman	6
			Spring 2005	6	3	M. Roman	9
MEES 608K	Classical Readings	UMCP	Fall 2001	6	1	Sole instructor	12
MEES 608E	Eutrophication	UMCP	Fall 2006	7	1	Sole instructor	12
MEES 698B,C	Phytoplankton Ecological Physiology	UMCP	Winter 2007	5	3	T. Kana	6

B. Graduate Student Training

1. Students Supervised

a. Degrees completed recently

Chunlei Fan, PhD 2002. Nitrogen uptake and metabolism in estuarine bloom-forming phytoplankton, with particular emphasis on *Prorocentrum minimum*.

Kitty Fielding. MS 2002. Differential substrate limitation in small tributaries of Chesapeake Bay, Maryland, influenced by non-point source nutrient loading.

Caroline M. Solomon. PhD 2006. Regulation of estuarine phytoplankton and bacterial urea uptake and urease activity by environmental factors.

b. Currently supervised

Ji Li, MS Student.

Desmond Johns, PhD Student

2. Recent Student Committees

Anne Thessen, MS, MEES Program, 2001-present

Goefrey Sinclair, PhD, University North Carolina, 2005-present

Kristian Spilling, PhD, University of Helsinki, *International opponent*, Jan. 2007.

Rachel Sipler, Rutgers University, 2006-present

3. International exchange students and post-docs

Marta Revilla, University of Bilbao, Spain 2002-2004

Elin Lindehoff, University of Kalmar, Sweden, January 2006

VII. Outreach and Service

A. Editorships

Subject Editor, *Aquatic Microbial Ecology*, 1995-2001, 2007-present
Member of Editorial board of *Estuaries*, 2004- present
Member of Editorial Board, *Harmful Algae*, 2001-present
*Guest Editor, special issue of Harmful Algae on *Prorocentrum minimum*, 2005*
Guest Editor, special ½ issue of Oceanography on HABs, 2005
*Guest Editor, special issue of Harmful Algae on the ecology of *Pfiesteria*, 2006*
Guest Editor, special issue of Harmful Algae on HABs and Eutrophication, in final prep.
Guest Editor, special issue of Contributions in Marine Science on Florida Bay, in prep.

B. Federal, State, Local Government

Member, Harmful Algal Technical Advisory Committee, 1999- present
Panelist, NIH Oceans and Human Health proposal evaluation, 2004
Panelist, NSF Biocomplexity panel, 2005
Member, EPA Working Group on nutrient criteria for estuaries, 2005-present, lead editor

C. International

GEOHAB Scientific Steering Committee and Focus Leader on Eutrophication, 1999-present
Co-chair, SCOR working group on land based pollution and HABs, 2008- present

D. University System of Maryland

MEES Review Committee, 2000-2001

E. UMCES and Laboratory

Faculty Senate, Secretary, 1987 - 1990; *Chair*, 1993-1996; **2002- present; sec'y 2005-present**
Analytical Services, *Chair*, 1986 – 2002, 2006-present
AOS (Oceanography, Ecology) admissions committees, 1996-2001
Education Committee, *Chair*, 2002-2004, member 2005-present
IAN Faculty Oversight Committee, 2004-present
Promotion review committee, AL faculty member, 2006
Post-tenure review committee, 2007

F. Other Professional Service

Member, Board of Trustees, Gunston Day School, 1999-present
Panelist, International Fellowship Awards, American Association of University Women, 2006