

# ***CURRICULUM VITAE***

**PATRICIA M. 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; global changes in the nitrogen cycle by anthropogenic activities; 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; effects of harmful algae on early stages of shellfish growth; primary productivity and its regulation by environmental factors.

### ***B. Peer-Reviewed Publications (2004-2009)***

#### **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
- 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. Fisher<sup>1</sup>, P.M. **Glibert**, J.D. Hagy, L.W. Harding, E.D. Houde, D.G. Kimmel, W.D. Miller, R.I.E. Newell, M. R. Roman<sup>1</sup>, 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., 541-544.

## 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

Heil, C.A., M. Revilla, **P.M. Glibert** and S. Murasko. 2007. Nutrient quality drives phytoplankton community composition on the West Florida Shelf. *Limnol. 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: 919-925.

## 2008

Stoecker, D.K., J.E. Adolf, A.R. Place, **P.M. Glibert**, and D. Meritt. 2008. Effects of the dinoflagellates *Karlodinium veneficum* and *Prorocentrum minimum* on early life history stages of the Eastern Oyster, *Crassostrea virginica*. *Marine Biology* 154: 81-90.

Alexander, J.A. D. K. Stoecker, D. W. Meritt, S. T. Alexander, A. Padeletti, D. Johns, L. Van Heukelem and **P. M. Glibert**. 2008. Differential feces and pseudofeces production by the oyster *Crassostrea ariakensis* when exposed to diets containing harmful dinoflagellate and raphidophyte species. *J. Shellfish Res.* 27: 567-579.

**Glibert, P.M.,** R. Azanza, M. Burford, K. Furuya, E. Abal, A. Al-Azri, F. Al-Yamani, P. Andersen, D.M. Anderson, J. Beardall, G. M. Berg, L. Brand, D. Bronk, J. Brookes, J. M. Burkholder, A. Cembella, W. P. Cochlan, J. Collier, Y. Collos, R. Diaz, M. Doblin, T. Drennen, S. Dyhrman, Y. Fukuyo, M. Furnas, J. Galloway, E. Granéli, D. V. Ha, G. Hallegraeff, J. Harrison, P. J. Harrison, C. A. Heil, K. Heimann, R. Howarth, C. Jauzein, A. A. Kana, T. M. Kana, H. Kim, R. Kudela, C. Legrand, M. Mallin, M. Mulholland, S. Murray, J. O'Neil, G. Pitcher, Y. Qi, N. Rabalais R. Raine, S. Seitzinger, P. Salomon, C. Solomon, D.K. Stoecker, G. Usup, J. Wilson, K. Yin, M. Zhou, M. Zhu. 2008. Ocean urea fertilization for carbon credits poses high ecological risks. *Marine Pollution Bulletin* 56: 1049-1056.

**Glibert, P.M.** 2008. Ocean urea fertilization: A high risk plan and a unified international response. *Coastal and Estuarine Research Federation Newsletter* 34 (2): 4-5.

Solomon, C.M., and **P.M. Glibert**. 2008. Urease activity in five phytoplankton species. *Aq. Microb. Ecol.* 52: 149-157.

**Glibert, P.M.,** J.M. Burkholder, E. Graneli and D.M. Anderson. 2008. Advances and insights in the complex relationships between eutrophication and HABs : Preface to the special issue. *Harmful Algae* 8: 1-2.

Heisler, J., **P. M. 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.* 8: 3-13.

**Glibert, P.M.,** E. Mayorga and S. Seitzinger. 2008. *Prorocentrum minimum* tracks anthropogenic nitrogen and phosphorus inputs on a global basis: application of spatially explicit nutrient export models. *Harmful Algae.* 8: 33-38.

Anderson, D.A., J.M. Burkholder, W. Cochlan, **P. M. Glibert**, C. Gobler, Heil, R. Kudela, T. Parsons, V. Trainer and G. Vargo. 2008. Harmful algal blooms in the United States: Linkages to eutrophication. *Harmful Algae.* 8: 39-53.

Burkholder, J.M., **P.M. Glibert**, H. Skelton. 2008. Mixotrophy, a major mode of nutrition for harmful algal species in eutrophic waters. *Harmful Algae.* 8: 77-93.

**Glibert, P.M.,** V. Kelly, L.A. Codispoti, W.C. Boicourt, T.M. Trice and B. Michael. 2008. *In situ* nutrient monitoring: A tool for capturing nutrient variability and the antecedent conditions that support algal blooms. *Harmful Algae.* 8: 175-181.

**Glibert, P.M.** 2008. Why the global change in nitrogen should concern us. *Public Affairs Journal.* November 2008: 44-51.

Li, J., **P.M. Glibert**, S. Lu, X. Shi and C. Zhang. 2008. Nitrogen uptake rates during a *Karenia mikimotoi* bloom in the East China Sea, 2005, and variation with N:P ratio. In: O. Moestrop, ed., Proceedings XII International Conference on Harmful Algae. IOC of UNESCO, Copenhagen, pp. 40-44.

## 2009

**Glibert, P.M.** and G.M. Berg. 2009. 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.

**Glibert, P.M.**, J.M. Burkholder, T.M. Kana, J.A. Alexander, C. Schiller, and H. Skelton. Grazing by *Karenia brevis* on *Synechococcus* enhances their growth rate and may help to sustain blooms. *Aquat. Microb. Ecol.* 55: 17-30.

Wazniak, C.A., M.R. Hall, E.A. Bailey, D.M. Boward, W.R. Boynton, J.F. Bratton, T.J.B. Carruthers, R.J. Chalmers, L.W. Cole, J.C. Cornwell, **P.M. Glibert**, A.B. Jones, T.E. Jordan, J. McCoy, M. McGinty, R.J. Shedlock, J. Sherwell, R.B. Sturgis, J.E. Thomas, T.M. Trice, and D.V. Wells. 2009. Water quality responses to nutrients. In: W.C. Dennison, J.E. Thomas, C.J. Cain, T.J.B. Carruthers, M.R. Hall, R.V. Jesien, C.A. Wazniak, and D.E. Wilson [eds.], *Shifting Sands: Environmental and cultural change in Maryland's Coastal Bays*.

## In Press

Sinclair, G., D. Kamykowski and **P.M. Glibert**. 2009. Growth, uptake and assimilation of ammonium, nitrate and urea by three strains of *Karenia brevis* under low light conditions. *Harmful Algae*.

Johnson, P., A. Townsend, C.C. Cleveland, **P.M. Glibert**, R. Howarth, V. Mackenzie E. Rejmankova and M. Ward. Linking environmental nutrient enrichment and disease emergence in humans and wildlife. *Ecol. Applications*.

**Glibert, P.M.** and J. Oliver. A framework for estuarine nutrient criteria development in the US. *Tearmann: the Irish Journal of Agri-environmental Research*.

**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*.

**Glibert, P.M.**, P.W. Boyd, and J.J. Cullen. Commercial ocean fertilization: Implications for harmful algal blooms. 13<sup>th</sup> International HAB Symposium proceedings.

Li, J., **P. M. Glibert**, M. Zhou, S. Lu, and D Lu. 2009. Relationships between nitrogen and phosphorus forms and ratios and the development of dinoflagellate blooms in the East China Sea. *Mar. Ecol. Prog. Ser.*

**Glibert, P.M.**, J. Boyer, C. Heil, C. Madden, B. Sturgis, and C. Wazniak. Blooms in Lagoons: Different from those of river-dominated estuaries. In: M. Kennish and H. Paerl (eds.), *Coastal Lagoons: Critical habitats of environmental change*. Taylor and Francis.

**Glibert, P.M.**, C.A. Heil, D. Rudnick, C.J. Madden, J. Boyer, and S. Kelly. Florida Bay: Status, trends, new blooms, recurrent problems. *Contrib. Mar. Sci.*

## C. Peer-Reviewed Reports since 2004

### 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.

**2008**

Dortch, Q, D. Anderson, D. Ayers and P. Glibert. 2008. Harmful Algal Bloom Research, Development, Demonstration and Technology Transfer. NOAA.

*In press*

Glibert, P.M., C. Madden, W. Boynton, D. Flemer, C. Heil and J. Sharp (eds.), *Estuarine Nutrient Criteria Development: State of the Science*. EPA Office of Water, in press.

**D. Seminars and Presentations (2004-2008)**

Glibert, P. 2004. Urea got a hold on me! Woods Hole Oceanographic Institution, Feb 2004

Glibert, P. 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. Murasko. 2005. Urea is a good predictor of cyanobacteria in Florida Bay and on the western Florida Shelf. 3<sup>rd</sup> 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. 3<sup>rd</sup> 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. 12<sup>th</sup> International HAB Symposium. Copenhagen, Sept. 2006.
- Glibert, P.M. 2006. HABs and Eutrophication. Cornell University, **Invited seminar**, Nov. 2006.
- Glibert, P.M. 2007. HABs and Eutrophication. University of Helsinki. **Invited seminar**. January 2007.
- Glibert, P.M. 2007. Effect 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 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. 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. June 2007. **Invited**.
- 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. 4<sup>th</sup> Symposium on Harmful Algae, Woods Hole, October 2007.
- Glibert, P.M., C. Heil, J. Alexander, S. Murasko, M. Revilla and M.B. Neely. 2007. Role of dissolved organic material in supporting microalgal communities in Florida Bay. ERF 2007. Providence, RI, 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. South Florida Water Management District, Miami, January 2008. **Invited**.
- Glibert, P.M. and J. Li. 2008. Nitrogen uptake rates during the HAB events of 2005 in the East China Sea and comparisons with recent dinoflagellate blooms in the western Florida Shelf. 2<sup>nd</sup> Asian GEOHAB Meeting, Nha Trang, Vietnam, January 2008.
- Glibert, P.M. 2008. Overview of the GEOHAB core research project on HABs in Eutrophic Systems. 2<sup>nd</sup> Asian GEOHAB Meeting, Nha Trang, Vietnam, January 2008.
- Glibert, P.M. 2008. Eutrophication and HABs: Focus on the Mid Atlantic. Ocean Sciences Meeting, Orlando, Florida. February 2008.

- Glibert, P.M. 2008. Chesapeake and Coastal Bay HABs and nutrients: Global models and ecosystem comparisons. Harmful Algal Bloom Task Force Meeting, Annapolis, April 2008.
- Glibert, P.M. 2008. A review of HABs of the Mid-Atlantic. DE Sea Grant-sponsored symposium of HABs. Lewis, DE. April 2008. **Invited keynote.**
- Glibert, P.M. 2008. *Prorocentrum minimum* tracks global nitrogen export. SCOR/LOICZ Working Group 132 Annual Meeting. Geeschacht, Germany, July 2008.
- Glibert, P.M., 2008. Complexity in the relationship between eutrophication and HABs. New College, FL, September 2008. **Invited seminar.**
- Glibert, P.M. 2008. Global nutrient over-enrichment: What's the relevance for the Florida coast? New College, FL, September 2008. **Invited seminar.**
- Glibert, P.M. 2008. Commercial ocean fertilization: Implication for harmful algal blooms. 13<sup>th</sup> International HAB Meeting, Hong Kong, November 2008.
- Glibert, P.M. 2008. A framework for estuarine nutrient criteria development in the U.S. Teagasc grassland and EU Water Framework Conference 2008. Wexford, Ireland, November 2008. **Invited keynote.**
- Glibert, P.M. C.A. Heil, S. Murasko, J. Alexander, MB Neely, and C. Madden. 2008. Dissolved organic material and the adaptive physiology of *Synechococcus* help to sustain blooms in Florida Bay. Florida Bay and Adjacent Marine Systems Science conference, Naples FL, December 2008.
- Glibert, P.M., J. Boyer, C.A. Heil, C. Madden, B. Sturgis and C. Wazniak. 2009. Blooms in lagoons. Atlantic Estuarine Research Society, Ocean City, MD, March 2009. **Invited.**
- Glibert, P.M. 2009. HABs in estuaries and coastal lagoons. Ecosystem Based Management; The Chesapeake and Other Systems conference, Baltimore MD, March 2009, **Invited.**

#### ***E. Meetings and symposia organized since 2004***

- 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.
- Steering Committee member, GEOHAB Modeling Workshop, June 2009. 60 attendees expected.
- Co-convener, 2<sup>nd</sup> Open Science Meeting on HABs and Eutrophication. Beijing, October 2009. ~200 attendees expected.
- Session Co-Chair, CERF 2009, Portland, Oregon, Estuarine Nutrient Criteria.
- Session Co-chair, CERF 2009, Portland, Oregon, Long-term Perturbations in Nutrients and Productivity
- Steering Committee member, 14<sup>th</sup> International HAB Conference, Greece, 2011.

#### ***F. Membership in Professional Societies***

American Society for Limnology and Oceanography  
 American Geophysical Union  
 The Oceanography Society  
 Estuarine Research Federation  
 International Society for the Study of Harmful Algae



## **V. Outreach and Service**

### **A. Editorships**

Subject Editor, *Aquatic Microbial Ecology*, 1995-2001, 2007-present  
Member of Editorial board of *Estuaries and Coasts*, 2004- present  
Member of Editorial Board, *Harmful Algae*, 2001-present  
Member of the Reader Review Panel, *Nature*, 2008-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*, 2008  
Guest Editor, special issue of *Harmful Algae* on *Strain Differences in Harmful Algae*, 2009  
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 and lead report editor, EPA Working Group on nutrient criteria for estuaries, 2005-2008  
Co-Chair, US National HAB Committee

### **C. International**

GEOHAB Scientific Steering Committee and Focus Leader on Eutrophication,  
1999-present  
Co-chair, SCOR/LOICZ Working Group 132, Land based nutrient pollution and HABs, 2008-2011,  
Steering Committee Member, UNESCO Global Nutrient Export from Watersheds- User Scenario  
Evaluation Working Group, 2009-present  
Consultant to Kuwait Environment Public Authority on harmful algal blooms, 1999-2003

### **D. Other Professional Service**

Member, Board of Trustees, Gunston Day School, 1999-2008; 2009- present  
Panelist, International Fellowship Awards, American Association of University Women, 2006  
Panelist and reviewer, Heinz Center evaluation of ecological effects of air quality, 2008-2009.  
Expert Reviewer, Florida nutrient criteria development, 2009.