

BIOGRAPHICAL SKETCH - DIANE K. STOECKER

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Professional Preparation:

University of New Hampshire, Botany, BS 1969
University of Hawaii, Microbiology, MS 1970
State University of New York at Stony Brook, Ecology & Evolution, Ph.D. 1979
Woods Hole Oceanographic Institution, Biological Oceanography, Postdoctoral Scholar 1979-1980

Appointments:

Professor, University of Maryland Center for Environmental Science 1995-present
Associate Professor, Center for Environmental & Estuarine Science, Univ. of Maryland System, 1991-1995
Associate Scientist, Woods Hole Oceanographic Institution, 1984-1991
Assistant Scientist, Woods Hole Oceanographic Institution, 1980-1984

Publications –Last three years:

- Stoecker DK, Long A, Suttles SE, Sanford LP. 2006. Effect of small-scale shear on grazing and growth of the dinoflagellate *Pfiesteria piscicida*. *Harmful Algae* 5: 407-418
- Stoecker DK, Tillman U, Granéli E. 2006. Chapter 18. Phagotrophic Harmful Algae. Pp. 177-187 in Granéli E and Turner J (eds) *Ecology of Harmful Algae*, Springer-Verlag, Berlin.
- Adolf JE, Stoecker DK, Harding LW. 2006. The balance of autotrophy and heterotrophy during mixotrophic growth of *Karlodinium micrum* (Dinophyceae). *J Plankton Res* 28: 737-751
- Hood, RR, Zhang X, Glibert PM, Roman MR, Stoecker, DK. 2006. Modeling the influence of nutrients, turbulence and grazing on *Pfiesteria* population dynamics. *Harmful Algae* 5: 459-479
- Johnson MD, Tengs T, Oldach D, Stoecker DK. 2006. Sequestration, performance and functional control of cryptophyte plastids in the ciliate *Myrionecta rubra* (Ciliophora). *J Phycol* 42: 1235-1246
- Johnson MD, Oldach D, Delwiche CF, Stoecker DK. 2007. Retention of transcriptionally active cryptophyte nuclei by the ciliate *Myrionecta rubra*. *Nature*. 445: 426-428
- Reaugh, ML, Roman M.R., Stoecker D.K. 2007. Changes in plankton community structure and function in response to variable freshwater flow in two tributaries of the Chesapeake Bay, USA. *Estuaries and Coasts*. 30(3): 403-417
- Fehling J, Stoecker D, Baldauf S.L. 2007. Photosynthesis and the Eukaryote Tree of Life. Pp 76-107 in Falkowski P.G. & Knoll A.H. (eds) *The Evolution of Primary Producers in the Sea*. Elsevier, Academic Press. NY

- Adolf JE, Place AR, Stoecker DK, Harding Jr., LW. 2007. Modulation of polyunsaturated fatty acids in mixotrophic *Karlodinium veneficum* (Dinophyceae) and prey *Stoeatula major* (Cryptophyceae). *J Phycol* 43: 1259-1270
- Glibert PM, Alexander J, Meritt DW, North EW, Stoecker DK. 2007. Harmful algae May Pose Additional Challenges for Oyster Restoration: Impacts of the Harmful Algae *Karlodinium veneficum* and *Prorocentrum minimum* on early life history stages of the oysters *Crassostrea virginica* and *Crassostrea ariakensis*. *J Shellfish Res*. 26: 919-925
- Stoecker DK, Adolf JE, Place AR, Glibert PM, Meritt D. 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
- Thessen AE, Stoecker DK. 2008. 2008. Distribution, abundance and domoic acid analysis of the toxic diatom genus *Pseudo-nitzschia* from the Chesapeake Bay. *Estuaries and Coasts*. 31: 664-672
- Alexander JA, Stoecker DK, Meritt DW, Alexander ST, Padeletti A, Johns D, Van Heukelem L, Glibert PM. 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
- Stoecker, DK, Thessen AE, Gustafson, DE. 2008. "Windows of opportunity" for dinoflagellate blooms: Reduced microzooplankton net growth coupled to eutrophication. *Harmful Algae* 8: 158-166
- Heisler J, Glibert P, Burkholder J, Anderson D, Cochlan W, Dennison W, Gobler C, Dortch Q, Heil C, Humphries E, Lewitus A, Magnien R, Marshall H, Sellner K, Stockwell D, Stoecker D, Suddleson ME. 2008. Eutrophication and harmful algal blooms: A scientific consensus. *Harmful Algae* 8: 3-13
- Salerno M, Stoecker DK. 2009. Ectocellular glucosidase and peptidase activity of the mixotrophic dinoflagellate *Prorocentrum minimum* (Dinophyceae). *J. Phycol.* 45: (in press)

Five Other Relevant Publications

- Stoecker, DK, Gustafson Jr., DE. 2003. Cell-surface proteolytic activity of photosynthetic dinoflagellates. *Aquat Microb Ecol* 30: 175-183
- Johnson, MD, Rome, M, Stoecker, DK. 2003. Microzooplankton grazing on *Prorocentrum minimum* and *Karlodinium micrum* in Chesapeake Bay. *Limnol. Oceanogr.* 48: 238-248
- Johnson MD, Stoecker DK. 2005. Role of feeding in growth and photophysiology of *Myrionecta rubra*. *Aquatic Microbial Ecology* 39: 303-312
- Smalley, GW, Coats DW, Stoecker, DK. 2003. Feeding in the mixotrophic dinoflagellate *Ceratium furca* is influenced by intracellular nutrient concentrations. *Mar. Ecol. Prog. Ser.* 262:153-162
- Stoecker, DK, Gustafson Jr, DE. 2002. Predicting grazing mortality of an estuarine dinoflagellate, *Pfiesteria piscicida*. *Mar Ecol Prog Ser* 233: 31-38