

RESUME

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Academic Degrees

A.B., 1955 -- Kansas State Teachers College, Emporia
M.S., 1956 -- Kansas State Teachers College, Emporia
Ph.D., 1961 -- University of Michigan

Professional Experience

Adjunct Research Professor, Department of Geological Sciences, Land Use and Environmental Change Institute, University of Florida, 2001-
Eminent Scholar Emeritus, 2001-
Carl S. Swisher Eminent Scholar Chair and Professor of Water Resources, University of Florida, 1987-2000.
Affiliate Professor of Geology, University of Florida, 1995.
Affiliate Professor of Soil and Water Science, University of Florida, 1994.
Affiliate Professor of Zoology, University of Florida, 1988.
Affiliate Professor, College of Natural Resources and Environment, 1998
Emeritus Professor of Natural Resources, 1987, Professor of Natural Resources 1986-1987, Associate Professor of Natural Resources, School of Natural Resources - 1976-1986; The University of Michigan.
Emeritus Associate Professor of Limnology, 1987, Associate Professor of Limnology, Department of Atmospheric and Oceanic Science, The University of Michigan, 1976-1987.
Research Limnologist, Great Lakes Research Division, The University of Michigan, 1971-1987.
Acting Director, Great Lakes Research Division, The University of Michigan, 1973-1976.
Lecturer, University of Michigan Biological Station, Summer 1970.
Assistant Director, Great Lakes Research Division, The University of Michigan, 1970-1972.
Associate Research Limnologist, Great Lakes Research Division, The University of Michigan, 1969-1971.
Assistant Professor of Radiological Health, Department of Environmental Health, School of Public Health and Assistant Research Limnologist, Great Lakes Research Division, Institute of Science and Technology, The University of Michigan, 1967-1968.
Technical Assistant, Office of Science and Technology, Executive Office of the President, Washington, D.C., 1966-1967.
Adjunct Assistant Professor, Department of Zoology, North Carolina State University, Raleigh, 1964-1966.
Fishery Biologist, Supervisory Fishery Biologist, Chief of Estuarine Ecology Program, Bureau of Commercial Fisheries, Radiobiological Laboratory, Beaufort, North Carolina, 1962-1966.
Research Associate, University of Georgia Marine Institute, 1960-1962.
Visiting Instructor, Kansas State Teachers College, Emporia, Summer 1960.
Research Fellowship, Institute for Fisheries Research, Michigan Department of Conservation, 1957-1960.
Teaching Fellowship, Department of Zoology, University of Michigan, 1955-1957.
Teaching and Research Assistantships, Department of Biology, Kansas State Teachers College, Emporia, 1952-1955.

Special Honors and Awards

Who's Who in America
American Men and Women in Science
Distinguished Alumnus, Emporia State University, 1989
Edward S. Deevey Award, Florida Lake Management Society, 2002
Ruth Patrick Award for Environmental Problem Solving, American Society
of Limnology and Oceanography, 2003

Scientific and Professional Societies

American Society of Limnology and Oceanography
Societas Internationalis Limnologiae
American Association for Advancement of Science (Fellow)
American Geophysical Union
American Institute of Fishery Research Biologists (Fellow)
International Association for Great Lakes Research
North American Benthological Society
North American Lake Management Society

Miscellaneous

A. Offices:

National Representative, International Society for Applied and
Theoretical Limnology, 1999-
Past-President, 1991-1992, President, 1989-1991, Vice President, 1988-
1989, and Secretary, 1976-1985, American Society of Limnology and
Oceanography
Director, South-Central Great Lakes District, American Institute of
Fishery Research Biologists, 1977-1980
Associate Editor, Ecology and Ecological Monographs, 1972-1975
Member of Editorial Board, International Association for Great Lakes
Research, 1970-1973
Associate Editor, Journal of Great Lakes Research, 1984-1993.

B. Consulting:

Consultant, Illinois Attorney General, 1977-1980
Consultant, WAPORA, Washington, D.C., 1977-1980
Consultant, Department of Health, State of Colorado, 1981-1982
Consultant, Union Lakes Community Association, Union Lake, MI, 1982-1983
Consultant, Wisconsin Center for Public Policy, 1984
Consultant, National Environmental Policy & Law Center, Inc. 1995

C. Professional Activities:

Member of Chemical and Biological Scientific Panel for International
Field Year for the Great Lakes.
Member of Standing Committee on Eutrophication, Research Advisory Board,
International Joint Commission.
Member of Standing Committee on Analytical Sampling and Measurement
Methods, Research Advisory Board, International Joint Commission.
Member, National Research Council's Ocean Sciences Board Site Review
Team for Great Lakes Environmental Research Laboratory, NOAA, 1976.
Coordinator, Wisconsin Center for Public Policy, Madison, Information
Verification Project, Panel on Phosphates Ban, 1984.
National Research Council, Committee on Restoration of Aquatic Systems:
Science, Technology, and Public Policy, 1989-1991.
Rookery Bay National Estuarine Research Reserve Advisory Committee -
1991-1994.
Panel on the NOAA Coastal Ocean Program, Ocean Studies Board, National
Research Council.
Upper Ocklawaha River Basin Technical Advisory Group, St. Johns River
Water Management District, 1989.

Orange Creek Basin Advisory Council, St. Johns River Water Management District, Scientific Advisory Committee, 1995-
Ocklawaha Study Group, 1998.
North American Lake Management Society, Program Committee for 20th Annual Meeting, Miami Florida, 1999-2000.
Florida Department of Environmental Protection, Technical Advisory Committee, Total Maximum Daily Load (TMDL) for Total Phosphorus in Lake Okeechobee, 2000-2001.
Florida Defenders of the Environment, Advisor, 2001-
Annis Water Resources Institute, Grand Valley State University, Science Advisory Board, 2002-

Principal Research Interests

Research on biological productivity, nutrient enrichment, biogeochemistry and eutrophication; effects of nutrients and other factors on biological production; and paleolimnology of lakes.

Publications

A. Refereed Journals and Major Principal Proceedings:

- Schelske, C. L., F. J. Aldridge; H. J. Carrick, and M. F. Coveney. 2003. Phytoplankton community photosynthesis and primary production in a hypereutrophic lake, Lake Apopka, Florida. *Archiv. Hydrobiol.* 157:145-172.
- Kenney, W. F., M. N. Waters, C. L. Schelske, and M. Brenner. 2002. Sediment records of phosphorus-driven shifts to phytoplankton dominance in shallow Florida lakes. *J. Paleolimnol* 27:367-377.
- Shumate, B. C., C. L. Schelske, T. L. Crisman, and W. F. Kenney. 2002. Response of the cladoceran community to trophic state change in Lake Apopka, Florida. *J. Paleolimnol.* 27:71-77.
- Brenner M., C. L. Schelske, and L. W. Keenan. 2001. Historical rates of sediment and nutrient accumulation in marshes of the Upper St. Johns River Basin, Florida, USA. *J Paleolimnol.* 26:241-257.
- Kenney, W. F., C. L. Schelske and A. D. Chapman. 2001. Changes in polyphosphate sedimentation: A response to excessive phosphorus enrichment in a hypereutrophic lake. *Can J. Fish. Aquat. Sci.* 58:879-887.
- Schelske, C. L. and W. F. Kenney. 2001. Model erroneously predicts failure for restoration of Lake Apopka, a hypereutrophic, subtropical lake. *Hydrobiologia* 448:1-5.
- Lowe, E. F., L. E. Battoe, M. F. Coveney, C. L. Schelske, K. E. Havens, E. R. Marzolf, and K. R. Reddy. 2001. The restoration of Lake Apopka in relation to alternative stable states: an alternative view to that of Bachmann et al. (1999). *Hydrobiologia* 448:11-18
- Havens, K. E, and C. L. Schelske. 2001. The importance of considering biological processes when setting total maximum daily loads (TMDL) for phosphorus in shallow lakes and reservoirs. *Environ. Pollut.* 113:1-9.
- Fahnenstiel, G. L., R. A. Stone, M. J. McCormick, C. L. Schelske, and S. E. Lohrenz. 2000. Spring isothermal mixing in the Great Lakes: evidence of nutrient limitation and nutrient-light interactions in a suboptimal light environment. *Can. J. Fish. Aquat. Sci.* 57:1901-1910.

- Myers, P. and C. L. Schelske. 2000. An inexpensive, optical (infrared) detector to measure water depth in lakes with flocculent sediments. *J. Paleolimnol.* 23:201-205.
- Brenner, M., J. M. Smoak, M. S. Allen, C. L. Schelske, and D. A. Leeper. 2000. Biological accumulation of ^{226}Ra in a groundwater-augmented Florida lake. *Limnol. Oceanogr.* 45:710-715.
- Edlund, M. B., C. M. Taylor, C. L. Schelske, and E. F. Stoermer. 2000. *Thalassiosira baltica* (Bacillariophyta), a new exotic species in the Great Lakes? *Can. J. Fish. Aquat. Sci.* 57:610-615.
- Schelske, C. L., M. F. Coveney, F. J. Aldridge, W. F. Kenney and J. E. Cable. 2000. Wind or nutrients: Historic development of hypereutrophy in Lake Apopka, Florida. *Limnology and Lake Management 2000+*. *Arch. Hydrobiol. Spec. Issues Advanc. Limnol.* 55:543-563.
- Brenner, M., L.W. Keenan, S.J. Miller, and C. L. Schelske. 1999. Spatial and temporal patterns of sediment and nutrient accumulation in shallow lakes of the Upper St. Johns River Basin, Florida. *Wetlands Ecology and Management* 6:221-240.
- Brenner, M., T. J. Whitmore, J. H. Curtis, D. A. Hodell, and C. L. Schelske. 1999. Stable isotope ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) signatures of sedimented organic matter as indicators of historic lake trophic state. *J. Paleolimnol.* 22:205-221.
- Hodell, D. A. and C. L. Schelske. 1998. Production, sedimentation, and isotopic composition of organic matter in Lake Ontario. *Limnol. Oceanogr.* 43:200-214.
- Hodell, D. A., C. L. Schelske, G. L. Fahnenstiel, and L.L. Robbins. 1998. Biologically induced calcite and its isotopic composition in Lake Ontario. *Limnol. Oceanogr.* 43:187-199.
- Hodell, D. A. and C. L. Schelske. 1998. Production, sedimentation, and isotopic composition of organic matter in Lake Ontario. *Limnol. Oceanogr.* 43:200-214.
- Aldridge, F. J., A. D. Chapman, C. L. Schelske, and R. W. Brody. 1998. Interaction of light, nutrients and phytoplankton in a blackwater river, St. Johns River, Florida, USA. *Verh. Internat. Verein. Limnol.* 26:1665-1669.
- Schelske, C. L. and G. L. Fahnenstiel. 1998. Commemorating 50 Years of Great Lakes research at the University of Michigan: A Tribute to David C. Chandler. *J. Great Lakes Res.* 24:487-494.
- Fahnenstiel, G. L., A. E. Krause, M. J. McCormick, H. J. Carrick, and C. L. Schelske. 1998. The structure of the planktonic food-web in the St. Lawrence Great Lakes. *J. Great Lakes Res.* 24:531-554.
- Julius, M. L., E. F. Stoermer, C. M. Taylor, and C. L. Schelske. 1998. Local extirpation of *Stephanodiscus niagarae* Ehrenb. (Bacillariophyta) in the recent limnological record of Lake Ontario. *J. Phycol.* 34:766-771.
- Hodell, D. A., C. L. Schelske, G. L. Fahnenstiel, and L.L. Robbins. 1998. Biologically induced calcite and its isotopic composition in Lake Ontario. *Limnol. Oceanogr.* 43:187-199.

- Hodell, D. A., C. L. Schelske, G. L. Fahnenstiel, and L. L. Robbins. 1998. Biologically induced calcite and its isotopic composition in Lake Ontario. *Limnol. Oceanogr.* 43:187-199.
- Carrick, H. J. and C. L. Schelske. 1997. Have we overlooked the importance of small phytoplankton in productive waters? *Limnol. Oceanogr.* 42:1613-1621.
- Brenner, M., C. L. Schelske, and T. J. Whitmore. 1997. Radium-226 stratigraphy in Florida lake sediments as an indicator of human disturbance. *Verh. Internat. Verein. Limnol.* 26:809-813.
- Gu, B., C. L. Schelske, and M. V. Hoyer. 1997. Intrapopulation feeding diversity in blue tilapia: evidence from stable carbon and nitrogen isotopes. *Ecology* 78:2263-2266.
- Chapman, A. D. and C. L. Schelske. 1997. Recent appearance of *Cylindrospermopsis* (Cyanobacteria) in five hypereutrophic Florida lakes. *J. Phycology* 33:191-195.
- Gu, B., K. E. Havens, C. L. Schelske, and B. H. Rosen. 1997. Uptake of dissolved nitrogen by phytoplankton in a eutrophic subtropical lake. *J. Plankton Res.* 19:759-770.
- Gu, B., C. L. Schelske, and M. V. Hoyer. 1997. Stable isotopes of carbon and nitrogen as indicators of diet and trophic structure of the fish community in a shallow hypereutrophic lake. *J. Fish Biology* 49:1233-1243.
- Stoermer, E. F., G. Emmert, M. L. Julius, and C. L. Schelske. 1996. Paleolimnologic evidence of rapid recent change in Lake Erie's trophic status. *Can. J. Fish. Aquat. Sci.* 53:1451-1458.
- Gu, B. and C. L. Schelske. 1996. Temporal and spatial variations in phytoplankton carbon isotopes in a polymictic subtropical lake. *J. Plankton Res.* 18:2081-2092.
- Brenner, M., T. J. Whitmore, and C. L. Schelske. 1996. Paleolimnological evaluation of historical trophic state conditions in hypereutrophic Lake Thonotosassa, Florida, USA. *Hydrobiologia* 331:143-152.
- Gu, B., C. L. Schelske, and M. Brenner. 1996. Relationships between sediment and plankton isotope ratios ($\delta^{13}\text{C}$ and $\delta^{13}\text{N}$) and primary productivity in Florida Lakes. *Can. J. Fish. Aquat. Sci.* 53:685-693.
- Whitmore, T. J., M. Brenner, and C. L. Schelske. 1996. Highly variable sediment distribution in shallow, wind-stressed lakes: A case for sediment-mapping surveys in paleolimnological studies. *J. Paleolimnol.* 15:207-221.
- Brenner, M., T. J. Whitmore, J. H. Curtis, and C. L. Schelske. 1995. Historical ecology of a hypereutrophic Florida lake. *Florida Lake and Reserv. Manage.* 11:255-271.
- Schelske, C. L., H. J. Carrick, and F. J. Aldridge. 1995. Can wind-induced resuspension of meroplankton affect phytoplankton dynamics? *J. N. Am. Benthol. Soc.* 14:616-630.
- Schelske, C. L. and D. A. Hodell. 1995. Using carbon isotopes of bulk sedimentary organic matter to reconstruct the history of nutrient loading and eutrophication in Lake Erie. *Limnol. Oceanogr.* 40:918-929.
- Aldridge, F. J., E. J. Phlips, and C. L. Schelske. 1995. The use of nutrient enrichment bioassays to test for spatial and temporal distribution of limiting factors affecting phytoplankton dynamics in Lake

- Okeechobee, Florida. Arch. Hydrobiol. Spec. Issues Advanc. Limnol. 45:177-190.
- Phlips, E. J., F. J. Aldridge, C. L. Schelske, and T. L. Crisman. 1995. Relationships between light availability, chlorophyll *a*, and tripton in a large, shallow subtropical lake. Limnol. Oceanogr. 40:416-421.
- Stoermer, E. F., M. B. Edlund, C. H. Pilskaln, and C. L. Schelske. 1995. Siliceous microfossil distribution in the surficial sediments of Lake Baikal. J. Paleolimnol. 14:69-82.
- Schelske, C. L. and E. F. Stoermer. 1994. Did top-down effects amplify anthropogenic nutrient perturbations in Lake Michigan? Comment on Evans (1992). Can. J. Fish. Aquat. Sci. 51:2147-2149.
- Schelske, C. L., A. Peplow, M. Brenner, and C. N. Spencer. 1994. Low-background gamma counting: Applications for ²¹⁰Pb dating of sediments. J. Paleolimnol. 10:115-128.
- Brenner, M., A. J. Peplow, and C. L. Schelske. 1994. Disequilibrium between ²²⁶Ra and supported ²¹⁰Pb in a sediment core from a shallow Florida lake. Limnol. Oceanogr. 39:1222-1227.
- Carrick, H. J., F. J. Aldridge, and C. L. Schelske. 1993. Wind influences phytoplankton biomass and composition in a shallow, productive lake. Limnol. Oceanogr. 38:1179-1192.
- Barnese, L. E. and C. L. Schelske. 1993. Effects of nitrogen, phosphorus and carbon enrichment on planktonic and periphytic algae in a softwater oligotrophic lake in Florida, U.S.A. Hydrobiologia 277:159-170.
- Carrick, H. J., C. L. Schelske, F. J. Aldridge, and M. F. Coveney. 1993. Assessment of phytoplankton nutrient limitation in productive waters: Application of dilution bioassays. Can. J. Fish. Aquat. Sci. 50:2208-2221.
- Conley, D. J., C. L. Schelske, and E. F. Stoermer. 1993. Modification of the biogeochemical cycle of silica with eutrophication. Mar. Ecol. Prog. Ser. 101:179-192.
- Aldridge, F. J., C. L. Schelske, and H. J. Carrick. 1993. Nutrient limitation in a hypereutrophic Florida lake. Arch. Hydrobiol. 127:21-37.
- Conley, D. J. and C. L. Schelske. 1993. Potential role of sponge spicules in influencing the silicon biogeochemistry of Florida lakes. Can. J. Fish. Aquat. Sci. 50:296-302.
- Stoermer, E. F., N. A. Andresen, and C. L. Schelske. 1992. Diatom succession in the recent sediments of Lake Okeechobee, Florida, U.S.A. Diatom Res. 7:367-386.
- Schelske, C. L. and D. A. Hodell. 1991. Recent changes in productivity and climate of Lake Ontario detected by isotopic analysis of sediments. Limnol. Oceanogr. 36:961-975.
- Stoermer, E. F., J. P. Kociolek, C. L. Schelske, and N. A. Andresen. 1991. Siliceous microfossil succession in the recent history of Green Bay, Lake Michigan. J. Paleolimnol.
- Schelske, C. L. 1991. Historical nutrient enrichment of Lake Ontario: paleolimnological evidence. Can. J. Fish. Aquat. Sci. 48:1529-1538.
- Wolin, J. A., E. F. Stoermer, and C. L. Schelske. 1991. Recent changes in Lake Ontario 1981-1987: microfossil evidence of phosphorus reduction. J. Great Lakes Res. 17:229-240.

- Schelske, C. L. and L. Sicko-Goad. 1990. Effect of chelated trace metals on phosphorus uptake and storage in natural assemblages of Lake Michigan phytoplankton. *J. Great Lakes Res.* 16:82-89.
- Stoermer, E. F., C. L. Schelske, and J. A. Wolin. 1990. Siliceous microfossil succession in the sediments of McLeod Bay, Great Slave Lake, Northwest Territories. *Can. J. Fish. Aquat. Sci.* 47:1865-1874.
- Stoermer, E. F., J. A. Wolin, C. L. Schelske, and D. J. Conley. 1990. Siliceous microfossil succession in Lake Michigan. *Limnol. Oceanogr.* 114:959-967.
- Fahnenstiel, G. L., C. L. Schelske, and M. J. McCormick. 1990. Phytoplankton photosynthesis and biomass in Lake Superior: effects of nutrient enrichment. *Verh. Internat. Verein. Limnol.* 24:371-377
- Stoermer, E. F., G. Emmert, and C. L. Schelske. 1989. Morphological variation of *Stephanodiscus niagarae* Ehrenb. (Bacillariophyta) in a Lake Ontario sediment core. *J. Paleolimnol.* 2:227-236.
- Schelske, C. L. 1989. Assessment of nutrient effects and nutrient limitation in Lake Okeechobee. *Water Res. Bull.* 25:1119-1130.
- Conley, D. J. and C. L. Schelske. 1989. Processes controlling the benthic regeneration and sedimentary accumulation of biogenic silica in Lake Michigan. *Archiv. Hydrobiol.* 116:23-43.
- Schelske, C. L. 1988. Historic trends in Lake Michigan silica concentrations. *Int. Revue ges. Hydrobiol.* 73:559-591.
- Wolin, J. A., E. F. Stoermer, C. L. Schelske, and D. J. Conley. 1988. Siliceous microfossil succession in recent Lake Huron sediments. *Archiv. Hydrobiol.* 114:175-198.
- Schelske, C. L., J. A. Robbins, W. D. Gardner, D. J. Conley, and R. A. Bourbonniere. 1988. Sediment record of biogeochemical responses to anthropogenic perturbations of nutrient cycles in Lake Ontario. *Can. J. Fish. Aquat. Sci.* 45:1291-1303.
- Conley, D. J., M. A. Quigley, and C. L. Schelske. 1988. Silica and phosphorus flux from sediments: importance of internal recycling in Lake Michigan. *Can. J. Fish. Aquat. Sci.* 45:1030-1035.
- Schelske, C. L., D. J. Conley, and E. F. Stoermer. 1988. Has silica increased in Lake Superior waters? *Verh. Internat. Verein. Limnol.* 23:163-169.
- Stoermer, E. F., J. P. Kociolek, C. L. Schelske, and D. J. Conley. 1987. Quantitative analysis of siliceous microfossils in the sediments of Lake Erie's central basin. *Diatom Res.* 2:113-134.
- Schelske, C. L., H. Züllig, and M. Boucherle. 1987. Limnological investigation of biogenic silica sedimentation and silica biogeochemistry in Lake St. Moritz and Lake Zürich. *Schweiz. Z. Hydrol.* 49:42-50.
- Schelske, C. L., D. J. Conley, E. F. Stoermer, T. L. Newberry, and C. D. Campbell. 1986. Biogenic silica and phosphorus accumulation in sediments as indices of eutrophication in the Laurentian Great Lakes. *Hydrobiologia* 143: 79-86.
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- Conley, D. J., C. L. Schelske, B. G. Dempsey, C. D. Campbell, and T. L. Newberry. 1986. Distribution of biogenic silica in the surficial sediments of Lake Michigan. *Can. J. Earth Sci.* 23: 1442-1449.

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- Stoermer, E. F., J. A. Wolin, C. L. Schelske, and D. J. Conley. 1985. Variations in *Melosira islandica* valve morphology in Lake Ontario sediments related to eutrophication and silica depletion. *Limnol. Oceanogr.* 30: 414-418.
- Stoermer, E. F., J. P. Kociolek, C. L. Schelske, and D. J. Conley. 1985. Siliceous microfossil succession in the recent history of Lake Superior. *Proc. Acad. Nat. Sci., Philadelphia* 137: 106-118.
- Schelske, C. L., D. J. Conley, and W. F. Warwick. 1985. Historical relationships between phosphorus loading and biogenic silica accumulation in Bay of Quinte sediments. *Can. J. Fish. Aquat. Sci.* 42: 1401-1409.
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- Schelske, C. L. 1985. Biogeochemical silica mass balances in Lake Michigan and Lake Superior. *Biogeochemistry* 1: 197-218.
- Stoermer, E. F., J. A. Wolin, C. L. Schelske, and D. J. Conley. 1985. An assessment of ecological changes during the recent history of Lake Ontario based on siliceous algal microfossils preserved in the sediments. *J. Phycol.* 21: 257-276.
- Schelske, C. L. 1985. Silica depletion in Lake Michigan: verification using Lake Superior as an environmental reference standard. *J. Great Lakes Res.* 11: 492-500.
- Sicko-Goad, L. M., C. L. Schelske, and E. F. Stoermer. 1984. Estimation of intracellular carbon and silica content of diatoms from natural assemblages using morphometric techniques. *Limnol. Oceanogr.* 29: 1170-1178.
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- Schelske, C. L., C. O. Davis, and L. E. Feldt. 1984. Growth responses of river and lake phytoplankton populations in Lake Michigan water. *Verh. Internat. Verein. Limnol.* 22:445-451.
- Fahnenstiel, G. L., D. Scavia, and C. L. Schelske. 1984. Nutrient-light interactions in the Lake Michigan subsurface chlorophyll layer. *Verh. Internat. Verein. Limnol.* 22:440-444.
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- Schelske, C. L., B. J. Eadie, and G. L. Krausse. 1984. Measured and predicted fluxes of biogenic silica in Lake Michigan. *Limnol. Oceanogr.* 29:99-110.
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- Lin, C. K. and C. L. Schelske. 1981. Seasonal variation of potential nutrient limitation to chlorophyll production in southern Lake Huron. *Can. J. Fish. and Aquatic Sci.* 38: 1-9.
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