

Numbered Contributions of the Upstate Freshwater Institute, Inc. (June 22, 2010)

282. Driscoll, C. T., A. Lee, M. Montesdeoca, D. A. Matthews and S. W. Effler. **2010**. Mobilization of toxicity potential of aluminum from alum floc deposits in Kensico Reservoir, NY. *Journal of the American Water Resources Association* (in review).
281. Effler, S. W., M. E. Spada, R. K. Gelda, D. A. Matthews, S. M. O'Donnell, N. G. Hairston and C. M. Kearns. **2010**. A twenty-five year record of *Daphnia* and coupled metabolic signatures in Onondaga Lake, New York. *Fundamental and Applied Limnology* (in review).
280. O'Donnell, D. M., S. W. Effler, C. M. Strait and G. A. Leshkevich. **2010**. Optical characterizations and pursuit of optical closure for the western basin of Lake Erie through *in situ* measurements. *Journal of Great Lakes Research* (in review).
279. Owens, E. M., R. K. Gelda, S. W. Effler, E. A. Cowen, P. J. Russello and D. C. Pierson. **2010**. Modeling resuspension in a dynamic water supply reservoir. *Journal of Environmental Engineering* (in review).
278. Effler, S. W., A. R. Prestigiacomo, A. J. P. Effler and C. T. Driscoll. **2010**. Water quality patterns in New York's Three Rivers System from multiple drivers. *Fundamental and Applied Limnology* (in review).
277. Effler, S. W. and S. M. O'Donnell. **2010**. A long-term record of epilimnetic phosphorus patterns in recovering Onondaga Lake, New York. *Fundamental and Applied Limnology* (accepted).
276. Effler, S. W., A. R. Prestigiacomo, F. Peng and D. C. Pierson. **2010**. Comparison of light scattering and total suspended solids as metrics in minerogenic sediment dominated tributaries and reservoirs. *Lake and Reservoir Management* (in review).
275. Effler, S. W., M. G. Perkins, F. Peng, C. M. Strait, A. D. Weidemann and M. T. Auer. **2010**. Light absorbing components in Lake Superior. *Journal of Great Lakes Research* (in review).
274. Peng, F. and S. W. Effler. **2010**. Characterizations of individual suspended mineral particles in western Lake Erie: Implications for optical variability and water clarity. *Journal of Great Lakes Research* (in review).
273. Perkins, M. G., S. W. Effler and C. M. Strait. **2010**. Light absorption components in Onondaga Lake, New York. *Fundamental and Applied Limnology* (in review).
272. Effler, S. W., S. M. O'Donnell, A. R. Prestigiacomo, D. M. O'Donnell, D. A. Matthews, E. M. Owens and A. J. P. Effler. **2009**. Tributary plunging in an urban lake (Onondaga Lake): Drivers, signatures, and implications. *Journal of the American Water Resources Association* 45(5):1127-1141.
271. O'Donnell, S. M., D. M. O'Donnell, E. M. Owens, S. W. Effler, A. R. Prestigiacomo and D. M. Baker. **2010**. Variations in the stratification regime of Onondaga Lake: Patterns, modeling, and implications. *Fundamental and Applied Limnology* 176(1):11-27.
270. Effler, S. W., A. R. Prestigiacomo, D. A. Matthews, R. K. Gelda, F. Peng, E. A. Cowen and S. A. Schweitzer. **2010**. Tripton, trophic state metrics, and near-shore versus pelagic zone responses to external loads in Cayuga Lake, New York. *Fundamental and Applied Limnology* (in preparation).
269. Effler, S. W., A. R. Prestigiacomo, D. A. Matthews, E. M. Michelanko and D. J. Hughes. **2009**. Partitioning phosphorus concentrations and loads in tributaries of recovering urban lake. *Lake and Reservoir Management* 25(3):225-239.
268. Effler, S. W., S. M. O'Donnell, A. R. Prestigiacomo, D. M. O'Donnell, R. K. Gelda and D. A. Matthews. **2010**. The effect of municipal wastewater effluent on nitrogen levels in Onondaga Lake, a 36-year record. *Water Environment Research* 82(1):3-19.
267. Hurteau, C., D. A. Matthews and S. W. Effler. **2010**. A retrospective analysis of solids deposition in Onondaga Lake, New York: Composition, temporal patterns, and drivers. *Lake and Reservoir Management* 26:43-53.
266. Prestigiacomo, A. R. and S. W. Effler. **2009**. Resolution of spatial patterns of water quality parameters in Onondaga Lake with rapid profiling instrumentation. (in preparation).
265. Matthews, D. A. and S. W. Effler. **2009**. Metro gets the P out: Early responses of Onondaga Lake to improved wastewater treatment. (in preparation).
264. Pierson, D. C., R. K. Gelda, S. W. Effler, D. M. O'Donnell and A. R. Prestigiacomo. **2008**. Use of automated monitoring to estimate the load of turbidity entering a drinking water reservoir. *Verh. Internat. Verein. Limnol.* 30(Part 1):113-116.
263. Peng, F., S. W. Effler, D. M. O'Donnell, A. D. Weidemann and M. T. Auer. **2009**. Characterization of minerogenic particles in support of modeling light scattering in Lake Superior through a two-component approach. *Limnology and Oceanography* 54(4):1369-1381.

262. Effler, S. W., R. K. Gelda, M. G. Perkins, F. Peng, N. G. Hairston and C. M. Kearns. **2008**. Patterns and modeling of the long-term optics record of Onondaga Lake, New York. *Fundamental and Applied Limnology* 172/3(August):217-237.
261. Gelda, R. K., S. W. Effler, F. Peng, E. M. Owens and D. C. Pierson. **2009**. Turbidity model for Ashokan Reservoir, New York: Case Study. *Journal of Environmental Engineering* 135(9):885-895.
260. Perkins, M. G., S. W. Effler, C. M. Strait and L. Zhang. **2009**. Light absorbing components in the Finger Lakes of New York. *Fundamental and Applied Limnology* 173/4:305-320.
259. Owens, E. M., R. Bookman, S. W. Effler, C. T. Driscoll, D. A. Matthews and A. J. P. Effler. **2009**. Resuspension of mercury-contaminated sediments from an in-lake industrial deposit. *Journal of Environmental Engineering* 135(7):526-534.
258. Peng, F., S. W. Effler, D. Pierson and D. G. Smith. **2009**. Light-scattering features of turbidity-causing particles in interconnected reservoir basins and an intervening stream. *Water Research* 43(8):2280-2292.
257. Gons, H. J., M. T. Auer and S. W. Effler. **2007**. MERIS satellite chlorophyll mapping of oligotrophic and eutrophic waters in the Laurentian Great Lakes. *Remote Sensing of Environment* 112(11):4098-4106.
256. Effler, S. W., E. M. Owens, D. A. Matthews, S. M. O'Donnell and J. M. Hassett. **2009**. Effects of discharge of spent cooling water from an oligotrophic lake to a polluted eutrophic lake. *Journal of Water Resources Planning and Management* 135(2):96-106.
255. Prestigiacomo, A. R., S. W. Effler, D. A. Matthews and L. J. Coletti. **2009**. Nitrate and bisulfide: Monitoring and patterns in Onondaga Lake, New York, following implementation of nitrification treatment. *Water Environment Research* 81(5):466-475.
254. Bookman, R., C. T. Driscoll, D. R. Engstrom and S. W. Effler. **2008**. Local to regional emission sources affecting mercury fluxes to New York Lakes. *Atmospheric Environment* 42(24):6088-6097.
253. Gelda, R. K. and S. W. Effler. **2008**. Probabilistic model for temperature and turbidity in a reservoir withdrawal. *Lake and Reservoir Management* 24(3):219-230.
252. Bookman, R., C. T. Driscoll, D. R. Engstrom and S. W. Effler. **2009**. Mercury fluxes to New York lakes inferred from lead-210 dated sediment cores. *Environmental Science and Technology* (in review).
251. Peng, F., S. W. Effler, D. M. O'Donnell, M. G. Perkins and A. D. Weidemann. **2007**. Role of minerogenic particles in light scattering in lakes and a river in Central New York. *Applied Optics* 46(26):6577-6594.
250. Matthews, D. A., S. W. Effler, S. M. O'Donnell, C. T. Driscoll and C. M. Matthews. **2008**. Electron budgets for the hypolimnion of a recovering urban lake, 1989-2004: Response to changes in organic carbon deposition and availability of electron acceptors. *Limnology and Oceanography* 53(2):743-759.
249. Prestigiacomo, A. R., S. W. Effler, D. M. O'Donnell, D. G. Smith and D. Pierson. **2008**. Turbidity and temperature patterns in a reservoir and its primary tributary from robotic monitoring: Implications for managing the quality of withdrawals. *Lake and Reservoir Management* 24(3):231-243.
248. Effler, S. W., F. Peng and R. K. Gelda. **2007**. Size distributions and light scattering features of minerogenic particles in a stream during runoff events. *Journal of Environmental Engineering* 133(9):931-940.
247. Effler, S. W. and D. A. Matthews. **2008**. Implications of redox processes for the rehabilitation of an urban lake, Onondaga Lake, NY. *Lake and Reservoir Management* 24:122-138.
246. Denkenberger, J. S., C. T. Driscoll, S. W. Effler, D. M. O'Donnell and D. A. Matthews. **2007**. Comparisons of an urban lake targeted for rehabilitation and a reference lake based on robotic monitoring. *Lake and Reservoir Management* 23:11-26.
245. Perkins, M. G., S. W. Effler, F. Peng, D. Pierson, D. G. Smith and Y. C. Agrawal. **2007**. Particle characterization and settling velocities for a water supply reservoir during a turbidity event. *Journal of Environmental Engineering* 133(8):800-808.
244. Peng, F. and S. W. Effler. **2007**. Suspended minerogenic particles in a reservoir: light scattering features from individual particle analysis. *Limnology and Oceanography* 52(1):204-216.
243. Denkenberger, J. S., D. M. O'Donnell, C. T. Driscoll and S. W. Effler. **2007**. Robotic monitoring to assess impacts of zebra mussels and assimilative

- capacity for a river. *Journal of Environmental Engineering* 133(5):498-506.
242. Gelda, R. K. and S. W. Effler. **2007**. Simulation of operations and water quality performance of reservoir multi-level intake configurations. *Journal of Water Resources Planning and Management* 133(1):78-86.
241. Matthews, D. A., S. W. Effler and C. M. Matthews. **2005**. Long-term trends in methane flux from the sediments of Onondaga Lake, NY: Sediment diagenesis and impacts on dissolved oxygen resources. *Arch. Hydrobiol.* 163(4):435-462.
240. Gelda, R. K. and S. W. Effler. **2007**. Modeling turbidity in a water supply reservoir: Advancements and issues. *Journal of Environmental Engineering* 133(2):139-148.
239. Effler, S. W., D. M. O'Donnell, F. Peng, A. R. Prestigiacomo, M. G. Perkins and C. T. Driscoll. **2006**. The diagnostic value of robotic monitoring of turbidity in a polluted lake. *Lake and Reservoir Management* 22(3):199-212.
238. Owens, E. M. **2009**. Observation and simulation of surface waves in two water supply reservoirs. *Journal of Hydraulic Engineering Division ASCE* 135(8):663-670.
237. Prestigiacomo, A. R., S. W. Effler, D. M. O'Donnell, J. M. Hassett, E. M. Michelanko, Z. Lee and A. D. Weidemann. **2007**. Turbidity and suspended solids levels and loads in a sediment enriched stream: implications for impacted lotic and lentic ecosystems. *Lake and Reservoir Management* 23:231-244.
236. O'Donnell, S. M., R. K. Gelda and S. W. Effler. **2008**. Modeling the fate of runoff events density currents in a reservoir with a two-dimensional framework. *Lake and Reservoir Management* (in review).
235. Owens, E. M., S. W. Effler, A. R. Prestigiacomo, D. A. Matthews and S. M. O'Donnell. **2010**. Observations and modeling of stream plunging in an urban lake. *Journal of the American Water Resources Association* (in preparation).
234. Rucinski, D. K., D. W. Watkins, Jr., M. T. Auer and S. W. Effler. **2010**. Dual discharge approach to accessing assimilative capacity. Probabilistic analysis and management application. *Journal of Environmental Engineering* 136(7):1
233. Lewis, G. N., M. T. Auer, X. Xiang and M. R. Penn. **2007**. Modeling phosphorus flux in the sediments of Onondaga Lake : Insights on the timing of lake response and recovery. *Ecological Modeling* 209:121-135.
232. Owens, E. M. and S. W. Effler. **2010**. A three-dimensional model of plunging inflow to a reservoir. (accepted).
231. Matthews, D. A. and S. W. Effler. **2006**. Long-term assessment of the oxygen resources of a recovering urban lake, Onondaga Lake, NY. *Lake and Reservoir Management* 22:19-32.
230. Effler, S. W., A. R. Prestigiacomo, F. Peng, K. B. Bulygina and D. G. Smith. **2006**. Resolution of turbidity patterns from runoff events in a water supply reservoir, and the advantages of in situ beam attenuation measurements. *Lake and Reservoir Management* 22(1):79-93.
229. Gelda, R. K. and S. W. Effler. **2007**. Testing and application of a two-dimensional hydrothermal model for a water supply reservoir: Implications of sedimentation. *Journal of Environmental Engineering and Science* 6(1):73-84.
228. O'Donnell, D. M. and S. W. Effler. **2006**. Resolution of impacts of runoff events on a water supply reservoir with a robotic monitoring network. *Journal of the American Water Resources Association* 42(2):323-335.
227. Effler, S. W., D. A. Matthews, J. Kaser, A. R. Prestigiacomo and D. G. Smith. **2006**. Runoff event impacts on a water supply reservoir: Suspended sediment loading, turbid plume behavior, and sediment deposition. *Journal of the American Water Resources Association* 42(6):1697-1710.
226. Peng, F. and S. W. Effler. **2005**. Inorganic tripton in the Finger Lakes of New York: Importance to optical characteristics. *Hydrobiologia* 543(1):259-277.
225. Effler, S. W., R. K. Gelda, S. D. Field, A. J. P. Effler, E. B. Wallenberg and D. A. Matthews. **2005**. Changes in primary production in Onondaga Lake, NY: Magnitude, metrics, and drivers. *Lake and Reservoir Management* 21(1):49-60.
224. Effler, S. W., R. K. Gelda, M. G. Perkins and D. M. O'Donnell. **2005**. Modeling light attenuation, secchi disk, and effects of tripton in Seneca River, New York, USA. *Journal of the American Water Resources Association* 41(4):971-984.
223. Matthews, D. A. and S. W. Effler. **2006**. Long-term changes in the areal hypolimnetic oxygen deficit (AHOD) of Onondaga Lake: Evidence of sediment feedback. *Limnology and Oceanography* 51((1, part 2)):702-714.
222. Peng, F., D. L. Johnson and S. W. Effler. **2004**. Characterization of inorganic particles in selected

- reservoirs and tributaries of the New York City water supply. *Journal of the American Water Resources Association* 40:663-676.
221. Rucinski, D. K., M. T. Auer, D. W. Watkins, Jr., S. W. Effler, S. M. O'Donnell and R. K. Gelda. **2007**. Accessing Assimilative Capacity through a Dual Discharge Approach. *Journal of Water Resources Planning and Management* 133(6):474-485.
220. Effler, S. W. and D. A. Matthews. **2004**. Sediment resuspension and drawdown in a water supply reservoir. *Journal of the American Water Resources Association* 40(1):251-264.
219. Effler, S. W., D. M. O'Donnell, D. A. Matthews, M. G. Perkins, S. M. O'Donnell, R. K. Gelda, A. R. Prestigiacomo, F. Peng, D. G. Smith, A. P. Bader and J. D. Mayfield. **2008**. Insights for the structure of a reservoir turbidity model from monitoring and process studies. *Lake and Reservoir Management* 24:69-86.
218. Effler, S. W., D. M. O'Donnell, M. G. Perkins and D. G. Smith. **2004**. Vertically detailed *in situ* measurements of gelbstoff: demonstrating the impact of a runoff event. *Hydrobiologia* 517:171-177.
217. Effler, S. W. and D. A. Matthews. **2003**. Impacts of a soda ash facility on Onondaga Lake and the Seneca River, NY. *Lake and Reservoir Management* 19(4):285-306.
216. Effler, S. W., B. A. Wagner, D. M. O'Donnell, S. M. O'Donnell, D. A. Matthews, R. K. Gelda, C. M. Matthews and E. A. Cowen. **2004**. An upwelling event at Onondaga Lake, NY: Characterization, impact and recurrence. *Hydrobiologia* 511:185-199.
215. Matthews, D. A., S. W. Effler, C. L. Stepczuk and J. P. Hassett. **2009**. Origins and temporal and spatial patterns of THM precursors across a trophic state gradient of reservoirs. *Journal of American Water Works Association* (in preparation).
214. Matthews, D. A. and S. W. Effler. **2003**. Decrease in pollutant loading from residual soda ash production waste. *Water, Air and Soil Pollution* 146:55-73.
213. Effler, S. W., S. M. O'Donnell, D. A. Matthews, C. M. Matthews, D. M. O'Donnell, M. T. Auer and E. M. Owens. **2002**. Limnological and loading information and a phosphorus total maximum daily load analysis for Onondaga Lake. *Lake and Reservoir Management* 18:87-108.
212. Peng, F., D. L. Johnson and S. W. Effler. **2002**. Suspensoids in New York City's drinking water reservoirs: Turbidity apportionment. *Journal of the American Water Resources Association* 38:1453-1465.
211. Gelda, R. K. and S. W. Effler. **2002**. Metabolic rate estimates for a eutrophic lake from diel dissolved oxygen signals. *Hydrobiologia* 485:51-66.
210. Gelda, R. K. and S. W. Effler. **2002**. Estimating oxygen exchange across the air-water interface of a hypereutrophic lake. *Hydrobiologia* 487(1):243-254.
209. Effler, S. W., D. M. O'Donnell and C. J. Owen. **2002**. America's most polluted lake: Using robotic buoys to monitor the rehabilitation of Onondaga Lake. *Journal of Urban Technology* 9(2):21-44.
208. Spada, M. E., N. H. Ringler, S. W. Effler and D. A. Matthews. **2002**. Invasion of Onondaga Lake, New York, by the zebra mussel (*Dreissena polymorpha*) following reductions in N pollution. *Journal of the North American Benthological Society* 21(4):634-650.
207. Effler, S. W., D. A. Matthews, M. G. Perkins, D. L. Johnson, F. Peng, M. R. Penn and M. T. Auer. **2002**. Patterns and impacts of inorganic tripton in Cayuga Lake. *Hydrobiologia* 482:137-150.
206. Gelda, R. K. and S. W. Effler. **2002**. A river water quality model for chlorophyll and dissolved oxygen that accommodates zebra mussel metabolism. *Water Quality and Ecosystem Modeling* 1(1-4):271-309.
205. Gelda, R. K., S. W. Effler and E. M. Owens. **2001**. River dissolved oxygen model with zebra mussel oxygen demand (ZOD). *Journal of Environmental Engineering* 127(9):790-801.
204. Matthews, D. A., S. W. Effler, C. M. Matthews (Brooks), C. A. Siegfried and M. E. Spada. **2001**. Responses of Onondaga Lake, New York, to early stages of rehabilitation: Unanticipated ecosystem feedbacks. *Water Environment Research* 73(6):691-703.
203. Effler, S. W., M. G. Perkins, N. Ohrazda, D. A. Matthews, R. K. Gelda, F. Peng, D. L. Johnson and C. L. Stepczuk. **2002**. Tripton, transparency and light penetration in seven New York reservoirs. *Hydrobiologia* 468:213-232.
202. Effler, S. W. and D. M. O'Donnell. **2001**. Resolution of spatial patterns in three reservoirs with rapid profiling instrumentation. *Hydrobiologia* 450:197-208.
201. Effler, S. W., D. A. Matthews and C. L. Stepczuk. **2001**. A limnological analysis of six New York

- reservoirs. *Lake and Reservoir Management* (not submitted).
200. Effler, S. W., C. M. Matthews (Brooks) and D. A. Matthews. **2001**. Patterns of gross deposition in reservoirs enriched in inorganic tripton. *Canadian Journal of Fisheries and Aquatic Sciences* 58(11):2177-2188.
199. Cirno, C. P., C. T. Driscoll and K. D. Bowes. **2000**. Chemical fluxes from sediments in two adirondack wetlands: Effects of an acid-neutralization experiment. *Soil Science Society of America Journal* 64(March-April):790-799.
198. Effler, S. W., R. K. Gelda and C. M. Matthews (Brooks). **2001**. Implications of industrial loads for ammonia pollution in an urban lake. *Water Environment Research* 73(2):192-203.
197. Effler, S. W., C. M. Brooks, M. G. Perkins, N. Ohrazda, D. A. Matthews, D. L. Johnson, M. T. Auer, J. A. Bloomfield and S. Quinn. **2000**. The effects of terrigenous inputs on spatial patterns of water quality indicators in South Lake, Lake Champlain. *Journal of Great Lakes Research* 26:366-383.
196. Effler, S. W., R. K. Gelda, J. A. Bloomfield, S. Quinn and D. L. Johnson. **2001**. Modeling the effects of tripton on water clarity: Lake Champlain. *Journal of Water Resources Planning and Management* 127(4):224-234.
195. Gelda, R. K. and S. W. Effler. **2003**. Application of a probabilistic ammonia model: Identification of important model inputs and critique of a TMDL analysis for an urban lake. *Lake and Reservoir Management* 19(3):187-199.
194. Gelda, R. K., S. W. Effler and S. M. O'Donnell. **2001**. Probabilistic model of ammonia and toxicity status for urban lake. *Journal of Water Resources Planning and Management* 127(5):337-347.
193. Matthews, D. A., S. W. Effler and C. M. Matthews (Brooks). **2000**. Ammonia and toxicity criteria in polluted Onondaga Lake, New York. *Water Environment Research* 72(6):731-741.
192. Gelda, R. K., S. W. Effler and C. M. Brooks. **1999**. Nitrite and the two stages of nitrification in nitrogen polluted Onondaga Lake, New York. *Journal of Environmental Quality* 28:1505-1517.
191. Gelda, R. K., C. M. Brooks, S. W. Effler and M. T. Auer. **2000**. Interannual variations in nitrification in a hypereutrophic urban lake: Occurrences and implications. *Water Research* 34(4):1107-1118.
190. Owens, E. M., S. W. Effler, S. M. Doerr, R. K. Gelda, E. M. Schneiderman, D. G. Lounsbury and C. L. Stepczuk. **1998**. A strategy for reservoir model forecasting based on historic meteorological conditions. *Lake and Reservoir Management* 14(2-3):322-331.
189. Gbondo-Tugbawa, S., C. T. Driscoll, J. McAlear and J. Mastriano. **1999**. Concentrations and fluxes of total and methyl mercury to Onondaga Lake, New York. *Water Research* (in review).
188. Effler, S. W., R. K. Gelda, M. G. Perkins, D. A. Matthews, E. M. Owens, C. Stepczuk and A. P. Bader. **1998**. Characteristics and origins of metalimnetic dissolved oxygen minima in a eutrophic reservoir. *Lake and Reservoir Management* 14(2-3):332-343.
187. Auer, M. T. and B. E. Forrer. **1998**. Development and parameterization of a kinetic framework for modeling light- and phosphorus-limited phytoplankton growth in Cannonsville Reservoir. *Lake and Reservoir Management* 14(2-3):290-300.
186. Bagley, S. T., M. T. Auer, D. A. Stern and M. J. Babiera. **1998**. Sources and fate of *Giardia* cysts and *Cryptosporidium* oocysts in surface waters. *Lake and Reservoir Management* 14(2-3):379-392.
185. Owens, E. M. **1998**. Thermal and heat transfer characteristics of Cannonsville Reservoir. *Lake and Reservoir Management* 14(2-3):152-161.
184. Owens, E. M. **1998**. Identification and analysis of hydrodynamic and transport characteristics of Cannonsville Reservoir. *Lake and Reservoir Management* 14(2-3):162-171.
183. Lorey, P. and C. T. Driscoll. **1999**. Historical trends of mercury deposition in Adirondack lakes. *Environmental Science and Technology* 33:718-722.
182. Effler, S. W., C. M. Matthews (Brooks) and C. T. Driscoll. **2001**. Changes in deposition of phytoplankton constituents in a Ca²⁺ polluted lake. *Environmental Science and Technology* 35(15):3082-3088.
181. Driscoll, C. T., K. M. Postek, D. Mateti, K. Sequeira, J. D. Aber, W. J. Kretser, M. J. Mitchell and D. J. Raynal. **1998**. The response of lake water in the adirondack region of New York to changes in acidic deposition. *Environmental Science and Policy* 1:185-198.
180. Auer, M. T., K. A. Tomasoski, M. J. Babiera, M. Needham, S. W. Effler, E. M. Owens and J. M.

- Hansen. **1998**. Phosphorus bioavailability and P-cycling in Cannonsville Reservoir. *Lake and Reservoir Management* 14(2-3):278-289.
179. Effler, S. W., D. L. Johnson and C. W. Callinan. **2001**. Selected features of Cayuga Lake from recent measurements. *Lake and Reservoir Management* (in review).
178. Effler, S. W., D. A. Matthews, C. M. Matthews (Brooks), M. G. Perkins, C. A. Siegfried and J. M. Hassett. **2004**. Water quality impacts and indicators of metabolic activity of the zebra mussel invasion of the Seneca River. *Journal of the American Water Resources Association* 40(3):737-754.
177. Effler, S. W., S. R. Boone, C. A. Siegfried and S. L. Ashby. **1998**. Dynamics of zebra mussel oxygen demand in Seneca River, New York. *Environmental Science and Technology* 32(6):807-812.
176. Effler, S. W., M. G. Perkins, N. Ohrazda, C. M. Brooks, B. A. Wagner, D. L. Johnson, F. Peng and A. Bennett. **1998**. Turbidity and particle signatures imparted by runoff events in Ashokan Reservoir, NY. *Lake and Reservoir Management* 14(2-3):254-265.
175. Gbondo-Tugbawa, S. and C. T. Driscoll. **1998**. Application of the Regional Mercury Cycling Model (RMCM) to predict the fate and remediation of mercury in Onondaga Lake. *Water, Air and Soil Pollution* 105(No. 1-2):417-426.
174. Doerr, S. M., E. M. Owens, R. K. Gelda, M. T. Auer and S. W. Effler. **1998**. Development and testing of a nutrient-phytoplankton model for Cannonsville Reservoir. *Lake and Reservoir Management* 14(2-3):301-321.
173. Owens, E. M. **1998**. Development and testing of one-dimensional hydrothermal models of Cannonsville Reservoir. *Lake and Reservoir Management* 14(2-3):172-185.
172. Bloom, N. S., G. Gill, S. Cappelino, C. Dobbs, L. McShea, C. T. Driscoll, R. Mason and J. Rudd. **1999**. Speciation and Cycling of Mercury in Lavaca Bay, Texas, Sediments. *Environmental Science and Technology* 33(1):7-13.
171. Gelda, R. K., E. M. Owens and S. W. Effler. **1998**. Calibration, verification, and an application of a two-dimensional hydrothermal model [CE-QUAL-W2(t)] for Cannonsville Reservoir. *Lake and Reservoir Management* 14(2-3):186-196.
170. Stepczuk, C. L., E. M. Owens, S. W. Effler, J. A. Bloomfield and M. T. Auer. **1998**. A modeling analysis of THM precursors for a eutrophic reservoir. *Lake and Reservoir Management* 14(2-3):367-378.
169. Effler, S. W. and A. P. Bader. **1998**. A limnological analysis of Cannonsville Reservoir, NY. *Lake and Reservoir Management* 14(2-3):125-139.
168. Auer, M. T., S. T. Bagley, D. A. Stern and M. J. Babiera. **1998**. A framework for modeling the fate and transport of *Giardia* and *Cryptosporidium* in surface waters. *Lake and Reservoir Management* 14(2-3):393-400.
167. Effler, S. W., M. G. Perkins and D. L. Johnson. **1998**. The optical water quality of Cannonsville Reservoir: Spatial and temporal patterns, and the relative roles of phytoplankton and inorganic tripton. *Lake and Reservoir Management* 14(2-3):238-253.
166. Stepczuk, C. L., A. B. Martin, S. W. Effler, P. Longabucco, J. A. Bloomfield and M. T. Auer. **1998**. Allochthonous contributions of THM precursors in a eutrophic reservoir. *Lake and Reservoir Management* 14(2-3):344-355.
165. Stepczuk, C. L., A. B. Martin, S. W. Effler, J. A. Bloomfield and M. T. Auer. **1998**. Spatial and temporal patterns of THM precursors in a eutrophic reservoir. *Lake and Reservoir Management* 14(2-3):356-366.
164. Owens, E. M., R. K. Gelda, S. W. Effler and J. M. Hassett. **1998**. Hydrologic analysis and model development for Cannonsville Reservoir. *Lake and Reservoir Management* 14(2-3):140-151.
163. Effler, S. W., R. K. Gelda, D. L. Johnson and E. M. Owens. **1998**. Sediment resuspension in Cannonsville Reservoir. *Lake and Reservoir Management* 14(2-3):225-237.
162. Effler, S. W. and C. M. Brooks. **1998**. Gradients and dynamics in downward flux and settling velocity in Cannonsville Reservoir. *Lake and Reservoir Management* 14(2-3):213-224.
161. Erickson, M. J. and M. T. Auer. **1998**. Chemical exchange at the sediment water interface of Cannonsville Reservoir. *Lake and Reservoir Management* 14(2-3):266-277.
160. Driscoll, C. T., J. Holsapple, C. L. Schofield and R. Munson. **1998**. The chemistry and transport of mercury in a small wetland in the Adirondack region of New York, USA. *Biogeochemistry* 40:137-146.
159. Penn, M. R., M. T. Auer, S. M. Doerr, C. T. Driscoll, C. M. Brooks and S. W. Effler. **2000**. Seasonality

- in phosphorus release rates from the sediments of a hypereutrophic lake under a matrix of pH and redox conditions. *Canadian Journal of Fisheries and Aquatic Sciences* 57(5):1033-1041.
158. Wickman, T. and M. T. Auer. **1996**. Modeling and measurement of nitrogen diagenesis and ammonia release from the sediments of a hypereutrophic lake. *Canadian Journal of Fisheries and Aquatic Sciences* (in review).
157. Effler, S. W. and C. A. Siegfried. **1998**. Tributary water quality feedback from the spread of zebra mussels: Oswego River, New York. *Journal of Great Lakes Research* 24(2):453-463.
156. Effler, S. W. and C. M. Brooks. **1998**. Dry weight deposition in polluted Onondaga Lake, New York, U.S.A. *Water, Air and Soil Pollution* 103:389-404.
155. Effler, S. W., S. R. Boone, C. A. Siegfried, L. Walrath and S. L. Ashby. **1997**. Mobilization of ammonia and phosphorus by zebra mussels (*Dreissena polymorpha*) in the Seneca River, New York. P. 187-208. *In* F. M. D'Itri (ed.) *Zebra Mussels and Aquatic Nuisance Species*. Ann Arbor Press, Chelsea, Michigan.
154. Driscoll, C. T., K. M. Postek, W. Kretzner and D. J. Raynal. **1995**. Long-term temporal patterns in the chemistry of precipitation and lake water in the Adirondack region of New York, USA. *Water, Air and Soil Pollution* 85:583-588.
153. Cirimo, C. P. and C. T. Driscoll. **1996**. The impacts of a watershed CaCO₃ treatment on stream and wetland in the Adirondack Mountains. *Biogeochemistry* 22:265-297.
152. Womble, R. N., C. T. Driscoll and S. W. Effler. **1996**. Calcium carbonate deposition in Ca²⁺ polluted Onondaga Lake, New York, U.S.A. *Water Research* 30(9):2139-2147.
151. Effler, S. W., S. M. Doerr and E. M. Owens. **1997**. Effect of reduced salinity input on river stratification and dissolved oxygen. *Water, Air and Soil Pollution* 95:45-58.
150. Effler, S. W. **1996**. Limnological and engineering analysis of a polluted urban lake. Prelude to environmental management of Onondaga Lake, New York. Springer-Verlag, New York, NY.
149. Siegfried, C. A., N. A. Auer and S. W. Effler. **1996**. Changes in zooplankton of Onondaga Lake: Causes and implications. *Lake and Reservoir Management* 12(1):59-71.
148. Effler, S. W. and R. D. Hennigan. **1996**. Onondaga Lake, New York: Legacy of pollution. *Lake and Reservoir Management* 12(1):1-13.
147. Effler, S. W. and S. M. Doerr. **1996**. Water quality model evaluations for scenarios of loading reductions and diversion of domestic waste around Onondaga Lake. *Lake and Reservoir Management* 12(1):181-193.
146. Penn, M. R. and M. T. Auer. **1997**. The seasonal variability in phosphorus speciation and deposition in a calcareous eutrophic lake. *Journal of Marine Geology* 139:47-59.
145. Doerr, S. M., R. P. Canale and S. W. Effler. **1996**. Development and testing of a total phosphorus model for Onondaga Lake, N.Y. *Lake and Reservoir Management* 12(1):141-150.
144. Canale, R. P., R. K. Gelda and S. W. Effler. **1996**. Development and testing of a nitrogen model for Onondaga Lake, N.Y. *Lake and Reservoir Management* 12(1):151-164.
143. Doerr, S. M., S. W. Effler and E. M. Owens. **1996**. Forecasting impacts of a hypolimnetic wastewater discharge on lake water quality. *Lake and Reservoir Management* 12(1):207-217.
142. Effler, S. W., C. M. Brooks and K. A. Whitehead. **1996**. Domestic waste inputs of nitrogen and phosphorus to Onondaga Lake, and water quality implications. *Lake and Reservoir Management* 12(1):127-140.
141. Matthews, D. A., S. V. Stehman and S. W. Effler. **2002**. Limnological and Statistical Issues for Monitoring the Impact of a Lake Source Cooling Facility: Cayuga Lake, NY. *Lake and Reservoir Management* 18(3):239-256.
140. Wang, W. and C. T. Driscoll. **1995**. Patterns of total mercury concentration in Onondaga Lake, New York. *Environmental Science and Technology* 29:2261-2262.
139. Connors, S. D., M. T. Auer and S. W. Effler. **1996**. Phosphorus pools, alkaline phosphatase activity, and phosphorus limitation in hypereutrophic Onondaga Lake, NY. *Lake and Reservoir Management* 12(1):47-57.
138. Driscoll, C. T., V. Blette, C. Yan, C. L. Schofield, R. Munson and J. Holsapple. **1995**. The role of dissolved organic carbon in the chemistry of bioavailability of mercury in remote Adirondack lakes. *Water, Air and Soil Pollution* 80:499-508.
137. Tomlinson, L. M., M. T. Auer, H. A. Bootsma and E. M. Owens. **2009**. The Great Lakes Cladophora

- model: Development, testing, and application to Lake Michigan. *Journal of Great Lakes Research* (in press).
136. Address, J. M. and S. W. Effler. **1996**. Summer methane fluxes and fall oxygen resources of Onondaga Lake, New York. *Lake and Reservoir Management* 12(1):91-101.
135. Stam, A. C., M. J. Mitchell, H. R. Krouse and J. S. Kahl. **1992**. Dynamics of stable sulfur isotopes of sulfate in precipitation and stream solutions in a Northern hardwoods watershed. *Water Resources Research* 28:231-236.
134. Mitchell, M. J., J. S. Owen and S. C. Schindler. **1990**. Factors affecting sulfur incorporation into lake sediments: Paleoecological implications. *Journal of Paleolimnology* 4:1-22.
133. Penn, M. R., M. T. Auer, E. L. Van Orman and J. J. Korienek. **1995**. Phosphorus diagenesis in lake sediments: Investigations using fractionation techniques. *Marine and Freshwater Research* 46:89-99.
132. Pauer, J. J. and M. T. Auer. **2009**. Formulation and testing of a novel river nitrification model. *Ecological Modelling* 220(6):857-866.
131. Gelda, R. K., M. T. Auer and S. W. Effler. **1995**. Determination of sediment oxygen demand by direct measurements and by inference from reduced species accumulation. *Marine and Freshwater Research* 46:81-88.
130. Effler, S. W. and C. A. Siegfried. **1994**. Zebra mussel (*Dreissena polymorpha*) populations in the Seneca River, New York: Impact on oxygen resources. *Environmental Science and Technology* 28:2216-2221.
129. Effler, S. W., C. M. Brooks, K. A. Whitehead, B. A. Wagner, S. M. Doerr, M. G. Perkins, C. A. Siegfried, L. Walrath and R. P. Canale. **1996**. Impact of zebra mussel invasion on river water quality. *Water Environment Research* 68:205-214.
128. Driscoll, C. T., C. Yan, C. L. Schofield, R. Munson and J. Holsapple. **1994**. The mercury cycle and fish in the Adirondack lakes. *Environmental Science and Technology* 28:136a-143a.
127. Canale, R. P., E. M. Owens, M. T. Auer and S. W. Effler. **1995**. Validation of a water quality model for Seneca River, NY. *Journal of Water Resources Planning and Management* 121:241-250.
126. Driscoll, C. T., S. W. Effler and S. M. Doerr. **1994**. Changes in inorganic carbon chemistry and deposition of Onondaga Lake, New York. *Environmental Science and Technology* 28(7):1211-1218.
125. Heidtke, T. M. and M. T. Auer. **1993**. Application of a GIS-based nonpoint source nutrient loading model for assessment of land development scenarios and water quality in Owasco Lake, NY. *Water Science Technology* 28:595-604.
124. Driscoll, C. T., M. D. Lehtinen and T. J. Sullivan. **1994**. Modeling the acid-base chemistry of organic solutes in Adirondack, NY lakes. *Water Resources Research* 30:297-306.
123. Doerr, S. M., S. W. Effler, K. A. Whitehead, M. T. Auer, M. G. Perkins and T. M. Heidtke. **1994**. Chloride model for polluted Onondaga Lake. *Water Research* 28:849-861.
122. Auer, M. T., S. M. Doerr, S. W. Effler and E. M. Owens. **1997**. A zero degree of freedom total phosphorus model: 1. Development for Onondaga Lake, New York. *Lake and Reservoir Management* 13:118-130.
121. Auer, M. T., N. A. Johnson, M. R. Penn and S. W. Effler. **1996**. Pollutant sources, depositional environment, and the surficial sediment of Onondaga Lake, New York. *Journal of Environmental Quality* 25:46-55.
120. Heidtke, T. M. and M. T. Auer. **1992**. Partitioning phosphorus loads: Implications for lake restoration. *Journal of Water Resources Planning and Management* 118:562-579.
119. Effler, A. J. P., R. K. Gelda, S. W. Effler, D. A. Matthews, S. D. Field and J. M. Hassett. **2008**. Decreases in primary production in Onondaga Lake from reductions in point source inputs of phosphorus. *Fundamental and Applied Limnology* 172/3:239-253.
118. Storey, M. L., M. T. Auer, A. K. Barth and J. M. Graham. **1993**. Site-specific determination of kinetic coefficients for modeling algal growth. *Ecological Modeling* 66:181-196.
117. Driscoll, C. T., S. W. Effler, M. T. Auer, S. M. Doerr and M. R. Penn. **1993**. Supply of phosphorus to the water column of a productive hardwater lake: Controlling mechanisms and management considerations. *Hydrobiologia* 253:61-72.
116. Auer, M. T., N. A. Johnson, M. R. Penn and S. W. Effler. **1993**. Measurement and verification of rates of sediment phosphorus release for a hypereutrophic urban lake. *Hydrobiologia* 253:301-309.

115. Canale, R. P., M. T. Auer, E. M. Owens, T. M. Heidtke and S. W. Effler. **1993**. Modeling fecal coliform bacteria: II. Model development and application. *Water Research* 27:703-714.
114. Auer, M. T. and S. L. Niehaus. **1993**. Modeling fecal coliform bacteria: I. field and laboratory determination of loss kinetics. *Water Research* 27:693-701.
112. Gelda, R. K. and M. T. Auer. **1996**. Development and testing of a dissolved oxygen model for a hypereutrophic lake. *Lake and Reservoir Management* 12(1):165-179.
111. Gelda, R. K., M. T. Auer, S. W. Effler, S. C. Chapra and M. L. Storey. **1996**. Determination of reaeration coefficients: A whole lake approach. *Journal of Environmental Engineering* 122(4):269-275.
110. Effler, S. W., M. G. Perkins and D. L. Johnson. **1991**. Optical heterogeneity in Lake Champlain. *Journal of Great Lakes Research* 17:322-332.
109. Gubala, C. P., C. T. Driscoll, R. M. Newton and C. L. Schofield. **1991**. The chemistry of a near-shore lake region during spring snow melt. *Environmental Science and Technology* 25:2024-2030.
108. Tsay, T. K., G. J. Ruggaber, S. W. Effler and C. T. Driscoll. **1992**. Thermal stratification modeling of lakes with sediment heat flux. *Journal of Hydraulic Engineering Division ASCE* 118:407-419.
107. Effler, S. W., C. M. Brooks, J. M. Address, S. M. Doerr, M. L. Storey and B. A. Wagner. **1991**. Pollutant loadings from solvay waste beds to lower Ninemile Creek, NY. *Water, Air and Soil Pollution* 55:427-444.
106. Effler, S. W., M. G. Perkins and B. A. Wagner. **1991**. Optics of Little Sodus Bay. *Journal of Great Lakes Research* 17:109-119.
105. Effler, S. W., D. L. Johnson, J. Jiao and M. G. Perkins. **1992**. Optical impacts and sources of suspended solids in Onondaga Creek, USA. *Water Resources Bulletin* 28:252-262.
104. Gubala, C. P. and C. T. Driscoll. **1991**. The chemical responses of acidic Woods Lake, NY to two different treatments with calcium carbonate. *Water, Air and Soil Pollution* 59:7-22.
103. Smith, M. E., C. T. Driscoll, B. J. Wyskowski, C. M. Brooks and C. C. Cosentini. **1991**. Modifications of stream structure and function by beaver (*Castor canadensis*) in the Adirondack Mountains, New York. *Canadian Journal of Zoology* 69:55-61.
102. Smith, D. A. and W. D. Russell-Hunter. **1990**. Correlation of abnormal radular secretion with tissue degrowth during stress period in *Helisoma Trivolvis* (pulmonata, basommatophora). *Biological Bulletin* 178:25-32.
101. Effler, S. W. and M. G. Perkins. **1996**. An optics model for Onondaga Lake. *Lake and Reservoir Management* 12(1):115-125.
100. Schaefer, D. A., C. T. Driscoll, R. Van Dreason and C. P. Yatsko. **1990**. The episodic acidification of Adirondack lakes during snowmelt. *Water Resources Research* 26:1639-1647.
99. Driscoll, C. T., R. M. Newton, C. P. Gubala, J. P. Baker and S. W. Christensen. **1991**. Adirondack Mountains. P. 133-202. *In* D. F. Charles (ed.) *Acidic Precipitation and Surface Water Acidification: Regional Case Studies*. Springer-Verlag, New York.
98. Effler, S. W., S. M. Doerr, C. M. Brooks and C. Rowell. **1990**. Chloride in the pore water and watercolumn of Onondaga Lake, NY., USA. *Water, Air and Soil Pollution* 51:215-326.
97. Brooks, C. M. and S. W. Effler. **1990**. The distribution of nitrogen species in polluted Onondaga Lake, NY., USA. *Water, Air and Soil Pollution* 52:247-262.
96. Auer, M. T. and M. Rijkeboer. **1991**. Modeling biomass and oxygen dynamics in *Prochlorothrix Hollandica* in laboratory scale enclosures. *Verh. Verein. Internat. Limnol* 24:738-741.
95. Auer, M. T., M. L. Storey, S. W. Effler and N. A. Auer. **1990**. Zooplankton impacts on chlorophyll and transparency in Onondaga Lake, NY. USA. *Hydrobiologia/Dev* 200/201:603-617.
94. Effler, S. W., C. M. Brooks, M. T. Auer and S. M. Doerr. **1990**. Free ammonia and toxicity criteria in a polluted urban lake. *Journal of Water Pollution Control Federation* 62:771-779.
93. Smith, M. E., B. J. Wyskowski, C. M. Brooks, C. T. Driscoll and C. C. Cosentini. **1990**. Relationships between acidity and benthic invertebrates of low-order woodland streams in the Adirondack Mountains, New York. *Canadian Journal of Fisheries and Aquatic Sciences* 47:1318-1329.
92. Effler, S. W., M. T. Auer and N. A. Johnson. **1989**. Modeling Cl concentration in Cayuga Lake, USA. *Water, Air and Soil Pollution* 44:347-362.
91. Perkins, M. G. and S. W. Effler. **1996**. Optical characteristics of Onondaga Lake 1968-1990. *Lake and Reservoir Management* 12(1):103-113.

90. Canale, R. P. and S. W. Effler. **1989**. Stochastic phosphorus model for Onondaga Lake. *Water Research* 23:1009-1016.
89. Rice, D. A., T. K. Tsay, S. W. Effler and C. T. Driscoll. **1989**. Modeling thermal stratification in a transparent Adirondack lake. *Journal of Water Resources Planning and Management* 115:440-456.
88. Owen, J. S. and M. J. Mitchell. **1989**. Sulfur biochemistry of an acidic lake in the Adirondack Region of New York. P. 59-68. *In* S. Rao (ed.) *Acidic stress and aquatic microbial interactions*. CRC Press, Boca Raton, Florida.
87. Mitchell, M. J., S. C. Schindler, J. S. Owen and S. A. Norton. **1988**. Comparison of sulfur concentrations within lake sediment profiles. *Hydrobiologia* 157:219-229.
86. Landers, D. H. and M. J. Mitchell. **1988**. Incorporation of $^{35}\text{SO}_4^{-2}$ into sediments of three New York lakes. *Hydrobiologia* 160:85-95.
85. Johnson, D. L., F. Jaio, G. DeSantos and S. W. Effler. **1991**. Individual particle analysis of suspended materials in Onondaga Lake, NY. *Environmental Science and Technology* 25:736-744.
84. Smith, D. A. **1988**. Radular kinetics during grazing in *Helisoma tribovis* (Gastropoda: *Pulmonata*). *Journal of Experimental Biology* 136:89-102.
83. Smith, D. A. **1989**. Radular-Tooth Biometry in *Helisoma trivolvis* (Say) (Gastropoda: Pulmonata: basommatophora): Interpopulation variation and the question of adaptive significance evolution. *Canadian Journal of Zoology* 67:1960-1965.
82. Effler, S. W. **1988**. Secchi disc transparency and turbidity. *Journal of Environmental Engineering* 114:1436-1447.
81. Effler, S. W., R. Roop and M. G. Perkins. **1988**. A simple technique for estimating absorption and scattering coefficients. *Water Resources Bulletin* 24:397-404.
80. Effler, S. W., J. P. Hassett, M. T. Auer and N. A. Johnson. **1988**. Depletion of epilimnetic oxygen, and accumulation of hydrogen sulfide in the hypolimnion of Onondaga Lake, NY, USA. *Water, Air and Soil Pollution* 39:59-74.
79. Owens, E. M. and S. W. Effler. **1996**. Modeling the impacts of a proposed hypolimnetic wastewater discharge on stratification and mixing in Onondaga Lake. *Lake and Reservoir Management* 12(1):195-206.
78. Pauer, J. J. and M. T. Auer. **2000**. Nitrification in the water column and sediment of a hypereutrophic lake and adjoining river system. *Water Research* 34(4):1247-1254.
77. Auer, M. T. and S. W. Effler. **1989**. Variability in photosynthesis: impact on DO models. *Journal of Environmental Engineering* 115:944-963.
76. Auer, M. T. and S. W. Effler. **1990**. Calculation of daily average photosynthesis. *Journal of Environmental Engineering* 116:412-418.
75. Schecher, W. D. and C. T. Driscoll. **1987**. An evaluation of uncertainty associated with aluminum equilibrium calculations. *Water Resources Research* 23:525-531.
74. Owens, E. M. and S. W. Effler. **1989**. Changes in stratification in Onondaga Lake, NY. *Water Resources Bulletin* 25:587-597.
73. Effler, S. W. and M. G. Perkins. **1987**. Failure of spring turnover to occur in Onondaga Lake, NY, U.S.A. *Water, Air and Soil Pollution* 34:285-291.
72. Bloom, N. W. and S. W. Effler. **1990**. Seasonal variability in the mercury speciation of Onondaga Lake, NY. *Water, Air and Soil Pollution* 53:251-265.
71. Schafran, G. C. and C. T. Driscoll. **1987**. Comparison of terrestrial and hypolimnetic sediment generation of acid neutralizing capacity for an acidic Adirondack lake. *Environmental Science and Technology* 21:988-993.
70. Effler, S. W., M. G. Perkins, H. Greer and D. L. Johnson. **1987**. Effects of whiting on turbidity and optical properties in Owasco Lake, New York. *Water Resources Bulletin* 23:189-196.
69. Effler, S. W., H. Greer, M. G. Perkins, S. D. Field and E. Mills. **1987**. Calcium carbonate precipitation and transparency in lakes: A case study. *Journal of Environmental Engineering* 113:124-133.
68. Sullivan, T. J., C. T. Driscoll, S. A. Gherini, R. Munson, R. B. Cook, D. F. Charles and C. P. Yatsko. **1989**. The influence of organic anions and aqueous aluminum on measurements of acid neutralizing capacity in surface waters. *Nature* 338:408-410.
67. Effler, S. W. **1987**. Whiting: A component of raw water turbidity. *Journal of American Water Works Association* 79:80-82.
66. Garofalo, J. E. and S. W. Effler. **1987**. Coating of zooplankton with calcium in Onondaga Lake, NY. *Environmental Science and Technology* 21:604-606.

65. Effler, S. W. **1987**. The impact of a chlor-alkali plant on Onondaga Lake and adjoining systems. *Water, Air and Soil Pollution* 33:85-115.
64. Driscoll, C. T., B. J. Wiskowski, C. C. Coscentini and M. E. Smith. **1987**. Processes regulating temporal and longitudinal variations in the chemistry of a low-order woodland stream in the Adirondack region of New York. *Biogeochemistry* 3:225-241.
63. Aldridge, D. W., W. D. Russell-Hunter and D. E. Buckley. **1986**. Age-related differential catabolism in the snail, *Viviparus Georgianus*, and its significance in the bioenergetics of sexual dimorphism. *Canadian Journal of Zoology* 64:340-346.
62. Effler, S. W., M. G. Perkins and C. M. Brooks. **1986**. The oxygen resources of the hypolimnion of ionically enriched Onondaga Lake, NY, USA. *Water, Air and Soil Pollution* 29:93-108.
61. Hart, T. F. and R. G. Werner. **1987**. Effects of prey density on growth and survival of white sucker (*Catostomus commersoni*) and pumpkinseed (*Lepomis gibbosus*) larvae. *Environmental Biology of Fishes* 18:41-50.
60. White, J. R. and C. T. Driscoll. **1987**. Manganese cycling in an acidic Adirondack lake. *Biogeochemistry* 3:87-104.
59. Effler, S. W. and C. F. Carter. **1987**. Spatial variability in selected physical characteristics and processes in Cross Lake, New York. *Water Resources Bulletin* 23:243-249.
58. Rascher, C. M., C. T. Driscoll and N. E. Peters. **1987**. Concentration and flux of solutes from snow and forest floor during snowmelt in the West-Central Adirondack Region of New York. *Biogeochemistry* 3:209-224.
57. Schafran, G. C. and C. T. Driscoll. **1987**. Spatial and temporal variations in aluminum chemistry of a dilute acidic lake. *Biogeochemistry* 3:105-120.
56. Effler, S. W., C. M. Brooks, M. G. Perkins, M. A. Meyer and S. D. Field. **1987**. Aspects of the underwater light field of eight Central New York lakes. *Water Resources Bulletin* 23:1193-1201.
55. Driscoll, C. T., C. P. Yatsko and F. J. Unangst. **1987**. Longitudinal and temporal trends in the water chemistry of the north branch of the Moose River. *Biogeochemistry* 3:37-62.
54. Effler, S. W. and E. M. Owens. **1985**. Impact of lake acidification on stratification. *Journal of Environmental Engineering* 111(6):822-832.
53. Field, S. D. and S. W. Effler. **1988**. Temperature and the productivity-light relationship. *Water Resources Bulletin* 24:325-328.
52. Johnson, E. Z. and R. G. Werner. **1986**. Scanning electron microscopy of the chorion of selected freshwater fishes. *Journal of Fish Biology* 29:257-265.
51. Mitchell, M. J., M. B. David, D. G. Maynard and S. A. Telang. **1986**. Sulfur constituents in soils and streams of a watershed in the Rocky Mountains of Alberta, Canada. *Canadian Journal of Forest Research* 16:315-320.
50. David, M. B. and M. J. Mitchell. **1985**. Sulfur constituents and cycling in waters, seston, and sediments of an oligotrophic lake. *Limnology and Oceanography* 30:1196-1207.
49. Driscoll, C. T. and R. M. Newton. **1985**. Chemical characteristics of acid-sensitive lakes in the Adirondack region of NY. *Environmental Science and Technology* 19:1018-1024.
48. Effler, S. W. and E. M. Owens. **1996**. Density stratification in Onondaga Lake: 1968-1994. *Lake and Reservoir Management* 12(1):25-33.
47. Effler, S. W. and E. M. Owens. **1987**. Modifications in phosphorus loadings to Onondaga Lake, USA, associated with alkali manufacturing. *Water, Air and Soil Pollution* 32:177-182.
46. Effler, S. W., M. C. Wodka, C. T. Driscoll, C. M. Brooks, M. G. Perkins and E. M. Owens. **1986**. Entrainment-based flux of phosphorus in Onondaga Lake. *Journal of Environmental Engineering* 112:617-622.
45. Russell-Hunter, W. D. **1985**. Physiological, ecological, and evolutionary aspects of molluscan tissue degrowth. *American Malacological Bulletin* 3:213-221.
44. Effler, S. W. and E. M. Owens. **1986**. The density of inflows to Onondaga Lake, USA, 1980 and 1981. *Water, Air and Soil Pollution* 28:105-115.
43. Owens, E. M., S. W. Effler and F. B. Trama. **1986**. Variability in thermal stratification in a reservoir. *Water Resources Bulletin* 22:219-227.
42. Effler, S. W., E. M. Owens and K. A. Schimel. **1986**. Density stratification in ionically enriched Onondaga Lake, USA. *Water, Air and Soil Pollution* 27:247-258.
41. Effler, S. W. and F. B. Trama. **1986**. Changes in light attenuation during filling, stabilization and

- operation of a reservoir. *Water, Air and Soil Pollution* 28:27-37.
40. Effler, S. W., K. Schimel and F. J. Millero. **1986**. Salinity, chloride and density relationships in ion enriched Onondaga Lake, NY. *Water, Air and Soil Pollution* 27:169-180.
 39. White, J. R. and C. T. Driscoll. **1985**. Lead cycling in an acidic Adirondack lake. *Environmental Science and Technology* 19:1182-1187.
 38. Effler, S. W. and C. T. Driscoll. **1986**. A chloride budget for Onondaga Lake, NY, USA. *Water, Air and Soil Pollution* 27:29-44.
 37. Effler, S. W., M. G. Perkins, K. A. Whitehead and E. A. Romanowicz. **1996**. Ionic inputs to Onondaga Lake: Origins, character, and changes. *Lake and Reservoir Management* 12(1):15-23.
 36. Effler, S. W. and M. T. Auer. **1987**. Optical heterogeneity in Green Bay. *Water Resources Bulletin* 23:937-941.
 35. Effler, S. W. **1985**. Attenuation versus transparency. *Journal of Environmental Engineering* 111:448-459.
 34. Effler, S. W. and D. L. Johnson. **1987**. Calcium carbonate precipitation and turbidity measurements in Otisco Lake, NY. *Water Resources Bulletin* 23:73-77.
 33. Effler, S. W., G. C. Schafran and C. T. Driscoll. **1985**. Partitioning light attenuation in an acidic lake. *Canadian Journal of Fisheries and Aquatic Sciences* 42:1707-1711.
 32. Weidemann, A. D., T. P. Bannister, S. W. Effler and D. L. Johnson. **1985**. Particulate and optical properties during CaCO₃ precipitation in Otisco Lake. *Limnology and Oceanography* 30:1078-1083.
 31. Driscoll, C. T. and G. C. Schafran. **1984**. Short-term changes in the base neutralizing capacity of an acid Adirondack lake, New York. *Nature* 310:308-310.
 30. Schecher, W. D. and C. T. Driscoll. **1985**. Interactions of copper and lead with *Nostoc muscorum*. *Water, Air and Soil Pollution* 24:85-101.
 29. Effler, S. W. and C. T. Driscoll. **1985**. Calcium chemistry and deposition in ionically enriched Onondaga Lake, New York. *Environmental Science and Technology* 19:716-720.
 28. Effler, S. W., M. C. Wodka and S. D. Field. **1984**. Scattering and absorption of light in Onondaga Lake. *Journal of Environmental Engineering* 110:1134-1145.
 27. Driscoll, C. T. and G. C. Schafran. **1984**. The chemistry of aluminum in an acidic lake in the Adirondack region of New York State, USA. P. 247-250. *In* C. J. Kramer and J. C. Duiner (eds.). *Complexation of Trace Metals in Natural Waters*. Nijhoff/Junk Publishers, The Hague, Netherlands.
 26. Effler, S. W., C. T. Driscoll, M. C. Wodka, R. Honstein, S. P. Devan, P. Jaran and T. Edwards. **1985**. Phosphorus cycling in ionically polluted Onondaga Lake, New York. *Water, Air and Soil Pollution* 24:121-130.
 25. Effler, S. W., S. P. Devan and P. Rodgers. **1985**. Chloride loading to Lake Ontario from Onondaga Lake, NY. *Journal of Great Lakes Research* 11:53-58.
 24. Effler, S. W., M. G. Perkins and S. D. Field. **1984**. Onondaga Lake and the dynamics of chloride in the Oswego River. *Water, Air and Soil Pollution* 23:69-80.
 23. Russell-Hunter, W. D. and D. E. Buckley. **1983**. Actuarial bioenergetics of nonmarine molluscan productivity. *The Mollusca* 6:463-503.
 22. Russell-Hunter, W. D., R. A. Browne and D. W. Aldridge. **1984**. Overwinter tissue degrowth in natural populations of freshwater pulmonate snails (*Helisoma trivolvis* and *Lymnaea palustris*). *Ecology* 65:223-229.
 21. Wodka, M. C., S. W. Effler and C. T. Driscoll. **1985**. Phosphorus deposition from the epilimnion of Onondaga Lake. *Limnology and Oceanography* 30:833-843.
 20. Effler, S. W. and S. D. Field. **1983**. Vertical diffusivity in the stratified layers of the mixolimnion of Green Lake, Jamesville, NY. *Journal of Freshwater Ecology* 2:273-286.
 19. Yin, C. and D. L. Johnson. **1984**. An Individual particle analysis and budget study of Onondaga Lake sediments. *Limnology and Oceanography* 29(6):1193-1201.
 18. Schafran, G. C., J. R. White and C. T. Driscoll. **1982**. The response of dilute acidic surface waters to strong-base addition. *Northeastern Environmental Science* 1:151-160.
 17. Devan, S. P. and S. W. Effler. **1984**. History of phosphorus loading to Onondaga Lake. *Journal of Environmental Engineering* 110:93-109.

16. Russell-Hunter, W. D., D. W. Aldridge, J. S. Tashiro and B. S. Payne. **1983**. Oxygen uptake and nitrogenous excretion rates during overwinter degrowth conditions in the pulmonate snail, *Helisoma trivolvis*. *Comparative Biochemistry and Physiology* 74A:491-497.
15. Wodka, M. C., S. W. Effler, C. T. Driscoll, S. D. Field and S. D. Devan. **1983**. Diffusivity-based flux of phosphorus in Onondaga Lake. *Journal of Environmental Engineering* 109:1403-1415.
14. Field, S. D. and S. W. Effler. **1983**. Light-productivity model for Onondaga Lake, NY. *Journal of Environmental Engineering* 109:830-844.
13. Menz, F. C. and C. T. Driscoll. **1983**. An estimate of the costs of liming to neutralize acidic adirondack surface waters. *Water Resources Research* 19:1139-1149.
12. White, J. R. and C. T. Driscoll. **1987**. Zinc cycling in an acidic Adirondack lake. *Environmental Science and Technology* 21:211-216.
11. Effler, S. W. **1984**. Carbonate equilibria and the distribution of inorganic carbon in Saginaw Bay. *Journal of Great Lakes Research* 10:3-14.
10. Effler, S. W., J. M. McCarthy, K. W. Simpson, F. J. Unangst, G. C. Schafran, W. D. Schecher, P. Jaran, H. A. Hsu and M. T. Khalil. **1984**. Chemical stratification in the Seneca/Oswego Rivers NY. *Water, Air and Soil Pollution* 21:335-350.
9. Field, S. D. and S. W. Effler. **1983**. Light attenuation in Onondaga Lake, NY, USA, 1978. *Arch. Hydrobiol.* 98(4):409-421.
8. Driscoll, C. T. and J. J. Bisogni. **1984**. Weak acid/base systems in dilute acidified lakes and streams of the Adirondack region of New York State. P. 53-72. *In* J. J. Schnoor (ed.) *Modeling of Total Acid Precipitation Impacts*. Butterworth, Boston.
7. Driscoll, C. T., J. P. Baker, J. J. Bisogni and C. L. Schofield. **1984**. Aluminum speciation and equilibria in dilute acidified surface waters of the Adirondack region of New York State. P. 55-75. *In* O. P. Bricker (ed.) *Geological Aspects of Acid Deposition*. Butterworth, Boston.
6. Effler, S. W., P. Jaran and C. F. Carter. **1982**. Onondaga Lake and dissolved oxygen in Seneca River. *Journal of Environmental Engineering* 109:945-951.
5. Driscoll, C. T., J. R. White, G. C. Schafran and J. D. Rendall. **1982**. CaCO₃ neutralization of acidified surface waters. *Journal of Environmental Engineering* 108:1128-1145.
4. Field, S. D. and S. W. Effler. **1982**. Photosynthesis-light mathematical formulations. *Journal of Environmental Engineering* 108:199-203.
3. Effler, S. W., S. D. Field and D. A. Wilcox. **1981**. The carbonate chemistry of Green Lake, Jamesville, NY. *Journal of Freshwater Ecology* 1:141-153.
2. Effler, S. W., D. A. Wilcox and S. D. Field. **1981**. Meromixis and stability at Green Lake, Jamesville, NY, Sept. 1977-Nov. 1978. *Journal of Freshwater Ecology* 1:129-139.
1. Effler, S. W., S. D. Field and M. Quirk. **1982**. The seasonal cycle of inorganic carbon species in Cazenovia Lake, New York, 1977. *Freshwater Biology* 12:139-147.