



Donald W. Kretchmer

Principal Water Resource Scientist

Technical Specialties

- Watershed and water supply protection
- Lake, river and estuarine water quality and flow
- Surface water discharges, stormwater and TMDLs
- Ecological restoration
- Fisheries and aquatic biology

Professional History

- DK Water Resource Consulting LLC: 2013-present
- ENSR/AECOM: 2006-2014
- Normandeau Associates, Inc.: 1987-2006
- Alliance Technologies Corp. (TRC): 1986-1987
- University of Wisconsin Center for Limnology: 1985-1986
- Cornell Biological Field Station: 1982-1984
- New York State Resource Information Laboratory: 1981-1982

Education

- M.S. (Water Resources Management) University of Wisconsin-Madison
- B.S. (Natural Resources) Cornell University

Registrations and Affiliations

- North American Lake Management Society
- Certified Lake Manager, Nation-wide
- OSHA 40 hour HAZWOPER Certified
- Lake Wentworth Association, Director 2005-2011, Water Quality Chair 2002-2016, Watershed Management Steering Committee 2010-present.
- NHDES subcommittee on Lake Water Quality Standards 2009-2012.
- NHDES subcommittee on Wetland Water Quality Standards 2012-present

Mr. Kretchmer has over 30 years of experience as a water resource scientist and limnologist, specializing in water quality, aquatic ecology and fisheries. His experience includes aquatic ecosystem restoration and watershed management, nutrient and dissolved oxygen monitoring and modeling in lakes, streams reservoirs and estuaries, instream flow, environmental policy, environmental impact assessment, permitting, natural resource damage assessment, TMDL development and designing and implementing monitoring and restoration plans. He has significant experience in QAPP preparation, data interpretation, public presentation of findings and reporting. He has worked at hundreds of estuarine, lake, reservoir, river and stream sites across the country. Throughout his career he has worked with local and regional groups, State and federal agencies, private industry, utilities, university researchers, advocacy groups and citizens. He is a Certified Lake Manager.



Lake and Watershed Management

Horseshoe Pond Stormwater Impact Evaluation, NH. Principal Limnologist. Currently evaluating the impact of changes in stormwater inflow to a small eutrophic urban oxbow lake. The stormwater flows are expected to influence water levels, flushing rate and nutrient loading to the pond. Each of the aspects has the potential to change the productivity (algal and macrophyte growth) in the pond and may require a variety of best management practices to offset those changes that result in a projected decline in water quality.

Weirs Beach Watershed Implementation Plan, NH. Principal Limnologist. Currently evaluating water quality data and estimating nutrient loading to a highly developed sub-watershed of Lake Winnepesaukee. Several highly visible infiltration and detention BMPs are proposed to address local sources of phosphorus to this very popular area of the lake.

Moultonborough Bay Watershed Plan, NH. Principal Limnologist. Evaluated water quality data and estimating nutrient loading to an embayment of Lake Winnepesaukee using a linked watershed/lake model. Model results formed the basis of a watershed plan for the basin. Project included an inventory of sources, potential best management practices and a schedule for implementation of nutrient reduction practices and techniques.

Pleasant Lake Watershed Management Plan, NH. Principal Limnologist. Prepared a watershed management plan for nutrients for Pleasant Lake, a small pristine lake in Southeastern NH using modeling to inform the process. While reduction of existing sources are a component of the plan, preservation of water quality through institutional controls is critical to maintain water quality in the future.

Lake Waukegan/Winona Watershed Plan, NH. Principal Limnologist. Responsible for evaluating current limnological conditions and developing a linked watershed/lake model of a two lake system used for both recreation and water supply. Model was used to predict likely changes in water quality related to installation of watershed BMPs. Other issues included water level control, algal blooms and critical lands protection. Results were presented to stakeholders and the watershed plan has become blueprint for management of the lakes in the future.

Durham Ponds Diagnostic and Restoration Study, NH. Principal Limnologist. Evaluated water quality in three eutrophic freshwater coastal ponds and developed recommendations for restoration measures in the ponds and watersheds. Ponds serve as local resources as well as critical buffers between the city of Durham and Great Bay, a significant coastal resource for New Hampshire. All the ponds have excessive aquatic plant and algal growth. Because of the proximity of the ponds to the estuary, both phosphorus and nitrogen control were accounted for.

Sophie's Pond Aquatic Plant Management. Developed and implemented a sampling plan for nutrients and aquatic plants in a pond with thick stands of invasive plants and a history of winterkill. Developed a management plan for the pond that was implemented and successful in controlling Eurasian watermilfoil while maintaining a clear water state for the pond.

Great Pond Watershed Study, Ct. Project Limnologist. Evaluated a eutrophic pond located in a developed office park slated for redevelopment. Built a linked watershed-pond model to assess numerous scenarios for development. Ultimately a plan for redevelopment and pond management was chosen that was protective of the pond water quality.

Province Lake Watershed Study, NH. Senior Technical Reviewer. Reviewed watershed and lake modeling to be used to develop a watershed plan for a shallow recreational lake that has experienced periodic cyanobacteria blooms.



Black Brook Watershed Plan, NH. Project Manager. Developed a watershed management plan for a subwatershed of Lake Winnisquam, a multi-basin lake with a watershed that encompasses a large portion of the Lakes Region of NH. Project involved modeling Lake Winnisquam, determining watershed loading from Black Brook, developing targets and structural and institutional BMPs to meet the targets. Model can be readily applied to other subwatersheds.

Lake Wentworth Association, Water Quality Lead, NH. As volunteer water quality chair for the association have performed routine water quality monitoring and targeted water quality investigations including water quality impact of invasive plant management techniques for 18 years, supervised interns and volunteers, presented at annual meetings and for school groups and have completed a watershed planning effort that included grant proposals, technical assistance and stakeholder input. Currently working on watershed plan implementation.

Granite Lake Watershed Plan. Directed the preparation of a watershed plan to address known threats to a high quality lake. A recent cyanobacteria bloom was the impetus for the study which included a comprehensive look at all watershed sources as well as potential future sources of nutrients and the potential lake response to those nutrients. Issues included septic systems, water level management, shoreline and watershed development. The final plan included engineered solutions to storm water problems as well as planning recommendations, public education and land preservation.

Ticklenaked Pond Internal Loading and Watershed Investigation, Vt. Led project to evaluate whether pond with internal nutrient loading problem had attained sufficient control of watershed sources of phosphorus to conduct a sediment phosphorus inactivation project. Watershed loading is currently dominated by agricultural sources. Assessment suggested that additional watershed control would greatly enhance the longevity of phosphorus inactivation with aluminum.

Santuit Pond Diagnostic/Feasibility Study, Mashpee, MA. Lead Scientist. Monitored water and watershed quality for a lake on Cape Cod to diagnose the cause of a precipitous decline in water quality. Issues included cranberry bogs, watershed development, cyanobacteria and internal nutrient loading. Solutions evaluated included artificial circulation, nutrient inactivation and watershed management.

City of Delevan, Wisconsin, Delavan Lake Recovery and Management Study, Delevan, Wisconsin. Member of an interdisciplinary team assembled to develop a recovery plan for Delavan Lake, a eutrophic southern Wisconsin lake dominated by rough fish. Responsible for development of management alternatives, assessment of the fisheries and development of a model to predict probable lake responses to reductions in phosphorus loading. Included a thorough review of existing steady-state phosphorus models and application of the most appropriate model(s). Recommendations were implemented by Wisconsin DNR and lake condition greatly improved.

Silver Lake Land Trust, Silver Lake Consultation, NH. Provided training in stormwater sampling, evaluating lake impact and assisting in the development of best management practices for a critical portion of the watershed that includes camp roads, state roads and public access areas.

Pawtuckaway Lake Advisory Committee, Pawtuckaway Lake Consultation, NH. Provided assistance with grant writing and interpretation of water quality data as it relates to fish stocking, water level drawdown and nutrient loading.

Town of Dublin, Dublin Lake Consultations, NH. Looked at alternatives for milfoil prevention and control, non-point source nutrient control alternatives related to a highway right-of-way, road salt impacts and lake limnology.



New York State Department of Environmental Conservation, Onondaga Lake Natural Resource Damage Assessment Plan, NY. Prepared a plan to compensate the citizens of the Syracuse area and New York State for injury to the natural resources of Onondaga Lake and the associated river downstream. Injury is attributable to releases of hazardous and non-hazardous substances over a century. Restoration projects for natural resource damages are ongoing. Also provided technical assistance in the preparation of a recreation damage assessment for the system.

Squam Lake, Rattlesnake Cove Turbidity Study, NH. The contribution of dredging and land clearing at development site on water quality in Rattlesnake Cove and connected Squam Lake was determined. Project resulted in mitigation of existing turbidity problems to the satisfaction of local officials, state officials, and the developer and development of a plan to avoid future problems.

David Larson, Private Pond Assessment, Ma. Provided expert report for an abutter in an appeal of a comprehensive permit for the development of a 48 unit subdivision adjacent to sensitive wetlands and a pond. Appeal was successful and development did not proceed as proposed.

New Hampshire Office of the Attorney General, State v. Epiphany Farms and Norris Harriman Construction, NH. Provided expert testimony for state attorney general in case involving the destruction of 12 acres of wetland tributary to Lake Wentworth, NH. Case settled with civil penalty and order to restore wetlands.

City of Bristol, Birge Pond Diagnostic/Feasibility Study, Ct. Conducted a watershed and in-lake study to determine the causes of eutrophication of an urban lake and developed a plan to remedy the situation. Pond is centerpiece of city conservation land.

Massachusetts Department of Public Works, Generic Environmental Impact Assessment of Road Salt Use, Ma. Developed a model of lake sensitivity to density induced stratification from road salt accumulation using existing lake database consisting of over 100 lakes in Massachusetts.

Township of Lacey, Lacey Lakes Restoration Study, NJ. Responsible for the diagnosis of the causes of water quality and aquatic ecological problems in four eutrophic, aquatic plant dominated lakes and developing a restoration plan for mitigation of those problems. Included extensive public outreach and coordination with state and local resource agencies.

State of Vermont, Control of Internal Loading in St. Albans Bay, VT. Managed project to look at alternatives for accelerating the recovery of eutrophic St. Albans Bay. External nutrient inputs have been reduced but water quality in the Bay has not improved. Evaluated controlling internal loading through phosphorus inactivation, dredging and mixing as well as other alternatives. Alum treatment was determined to be promising but only after reduction of watershed loading.

City of Lynn, Ma, Sluice, Flax and Floating Bridge Ponds (MA), Lynn, Ma. Responsible for the prediction of the water quality impacts associated with the restoration of three mesoeutrophic lakes. Review of the proposed project resulted in a major reorientation of the restoration effort.

City of Bedford, Ma, Fawn Lake Diagnostic/Feasibility Study, Bedford, Ma. Supervised and planned all limnological sampling, developed nutrient budgets, evaluated lake problems, identified remedial alternatives and evaluated alternative feasibility for Fawn Lake in Bedford, MA. Presented options for rehabilitation at public meetings and incorporated public comments into final report.

St. Pauls School, Turkey Pond Restoration., NH. Collected and evaluated limnological data on four shallow eutrophic ponds with excessive macrophyte growth. Provided recommendations to mitigate problems and enhance recreational use while preserving pond ecology.



Alcoa, Yadkin Water Quality Studies, NC. Evaluated the limnology of a river and reservoir system (four impoundments) as a part of a relicensing effort. Issues addressed during this multi-year study included operational water levels, nutrient enrichment, temperature, dissolved oxygen dynamics and mitigation of dissolved oxygen problems. Project used the alternative licensing process which required extensive coordination with Federal, state, local, NGO, lake associations and business stakeholders. Project included extensive written and public presentations as well as provision of a sworn deposition describing the work completed.

Lake Ontario Shoreline Mapping, NY. Served as a senior technical advisor for a project to map the NY portion of the Lake Ontario shoreline as a part of two separate projects. One project focuses on tying the elevation of the current shoreline protective structures to the water level and the second is focused on developing estimates of shoreline recession. Both projects provided information to be used in discussions over proposed new water level rule curves for Lake Ontario.

Massachusetts Department of Conservation and Recreation, Dam Inventory and Evaluation, MA. Managed project that included evaluation of 250 dams and associated lakes and reservoirs currently owned or operated by MADCR. Inventory included identification of current and potential future uses including safety, flood control, removal, water supply, instream uses, lake ecology, recreation and power production. A plan for the dams and associated river reaches was prepared along with a series of priority lists for management.

Town of Franklin, Resource Evaluation of Four Reservoirs, MA. Evaluated the current use, fisheries, water quality and sediment conditions in four eutrophic aquatic plant dominated urban impoundments in Franklin, Ma. Presented assessment of options for future management including dam removal/stream restoration, dredging and sediment management.

Tennessee Valley Authority, Water Quality Section of Reservoir Operating Study EIS, TN. Alternatives for the future management of water levels, water quality, transportation, flood control and recreation throughout the entire TVA system were evaluated. Metrics for the evaluation of water quality and aquatic ecology in over 40 reservoirs, tailwaters and free-flowing sections were developed and used to estimate impacts from reservoir management alternatives.

USACE Walla Walla District, Snake River Water Quality and Productivity Study, WA, ID. Documented limnology and primary productivity of Lower Snake River through a multi-year monitoring program to support a modeling effort. Model demonstrated potential changes in primary and secondary productivity associated with the potential removal of four large hydropower dams and reservoirs on the Lower Snake River. Results were a critical part of a larger EIS evaluating anadromous fish movement throughout the system.

New York State Department of Environmental Conservation, Onondaga Lake Natural Resource Damage Assessment Plan, NY. Prepared a plan to compensate the citizens of the Syracuse area and New York State for injury to the natural resources of Onondaga Lake and the associated river downstream. Injury is attributable to releases of hazardous and non-hazardous substances over nearly a century. Restoration projects for natural resource damages are ongoing. Provided technical assistance in preparation of a recreation damage assessment for the system.

Confidential Client, Natural Resource Damage Restoration Plan, NY. Developed natural resource restoration design and participated in negotiations with trustees for a chemical site on a highly industrial major tidal river in New York State. Issues include sediment contamination and loss of flora and fauna related to those sediments. Settlement reached with trustees to restore ecological benefits.



TMDLS

High Rock Lake TMDL Modeling Review, NC. Currently reviewing watershed and reservoir model developed to support a TMDL for High Rock Lake. Particular focus is on nutrient, phytoplankton and dissolved oxygen dynamics. Goal is to ensure that the model accurately represents the loading regime of High Rock Lake and results in a fair and achievable allocation to all sources.

Massachusetts Department of Transportation, Impaired Water Assessments, MA. Senior Technical Advisor. Project quantifying DOTs contribution to water quality impairments waters throughout the state. Parameters range from nutrients and chloride to bacteria and metals. Evaluation includes an assessment of TMDL compliance where TMDLs have been completed as well as documentation of existing BMPs and proposal of new BMPs when warranted.

USEPA Region 1, NH Lakes TMDL Development, NH. Project manager/Principal limnologist. Completed TMDLs for 30 lakes listed as impaired for nutrient enrichment and 152 lakes listed as impaired for pH in New Hampshire using watershed GIS and in-lake models. In addition, project team developed a methodology for the completion of TMDLs for acid impaired stream segments and assessed the link between acid and aluminum impairments in lakes and streams. These TMDLs encompass a significant percentage of the impaired assessment units in NH.

USEPA Region 1, TMDL Innovations Project, New England. As project manager role was to facilitate meetings with EPA and State personnel to discuss challenges and problem solving approaches associated with stormwater TMDLs. Included several critical tasks in support of the stormwater TMDL innovations project including interviewing New England State TMDL coordinators regarding TMDL priorities and innovative techniques for completing TMDLs, development of a pilot watershed based TMDL for pathogen impairment in Maine and evaluating and presenting innovative TMDL projects from across the country.

City of Waco, Texas, Lake Waco Management Plan. Evaluated the influence of fisheries and agriculture (primarily dairy) on water quality as a part of a large TMDL implementation project for Lake Waco, the water supply for the City of Waco and an important regional recreational reservoir. With over 60,000 dairy cows in the watershed meeting the loading target for the TMDL is a challenge.

Barr Lake/Milton Reservoir Watershed Plan, CO. Developed portions of a nutrient TMDL related to a larger effort that involved comprehensive watershed planning and modeling. The two reservoirs are dominated by treated effluent either that either directly enter the waterbodies or are diverted from the South Platte River which is also dominated by wastewater. Evaluated scenarios for load reduction that would result in the reservoirs meeting water quality use objectives.

Development of a Comprehensive Watershed Water Quality Model and TMDL for the Reedy River, SC. Provided senior review and oversight for the development of a nutrient TMDL for the Reedy River. A TMDL allocation was calculated for the Reedy River based on a water quality model developed for total phosphorus, total nitrogen and algal growth. Water quality data were collected to support the modeling effort and physical, chemical and ecological components of the system were described.



Water Supply Evaluation and Protection

Roaring Brook Reservoir Management Plan, NH. Lake Manager. Developing a watershed management plan for the city of Keene, NH to protect two drinking water reservoirs. The plan will use reservoir and watershed modeling to evaluate the influence of potential future watershed changes related to development pressure, climate change, forestry practices and recreational use on reservoir water quality. Nutrient enrichment and associated algal growth and increases in treatment costs are a particular concern.

Newburyport Water Supply Reservoir Watershed Plan, MA. Principal Limnologist. Prepared a water quality protection plan for four reservoirs used as drinking water. Plan elements included monitoring, watershed protection, watershed and lake modeling, invasive species control, sediment evaluation and operational control. Objectives included providing high quality finished water while controlling treatment costs as well as allowing for other uses of the reservoirs.

Glades Reservoir Water Supply EIS, GA. Water Quality Lead. Evaluating potential water quality impacts of construction of a new pump-storage reservoir on the Chattahoochee River and downstream reservoirs. Includes evaluation of scenarios through modeling and development of a watershed-lake model of the new reservoir to predict future water quality. Provided senior review of instream flow studies. Results will be incorporated in an environmental impact statement.

Black Brook Water Quality Monitoring for Water Supply Protection, NH. Principal Limnologist. Evaluated water quality above and below a major construction project on a brook that discharges to Paugus Bay, the water supply for Laconia, NH. Results were used to adaptively manage the construction site to minimize contamination of the brook and Paugus Bay.

Manchester Water Works, Lake Massabesic Watershed Management Plan., NH. Prepared a comprehensive watershed management plan for the water supply for the City of Manchester, NH. Project incorporated transportation, limnology, land use, spill prevention, water quality data, ground data and planning information.

Portland Water District, Sebago Lake Water Quality Consultations, Me. Provided limnological expertise to the Portland Water District with regard to the maintenance of Sebago Lake as a high quality drinking water supply without filtration. Issues included intake water quality, septic systems, lake use, shoreline erosion, water level management and watershed protection.

Lake Sunapee Property Rights and Conservation Association, Sunapee Harbor Water Quality Investigation, NH. Evaluated the impact of recreational swimming within Sunapee Harbor on the concentrations of *Cryptosporidium* sp. and *Giardia* sp. oocyst concentrations in the Village of Sunapee drinking water intake. Testified before NH Water Council.

SAPPI, Sebago Lake Near-shore Water Quality Study., Me. Evaluated the impact of fluctuating water levels due to hydropower operations on nearshore water quality and attached algal growth in a lake used for drinking water.

Maine Turnpike Authority, Maine Turnpike Environmental Impact Statement, Maine. Quantified impacts of widening of the Maine Turnpike from 4 to 6 lanes. Monitored and modeled chloride concentrations in groundwater as well as movement of chloride from the highway corridor to protect streams and private wells.

Fisheries Studies



Trout Stream Inventory and Habitat Evaluations, PA. Project Biologist. Performed multi-year assessment of fisheries populations, water quality and habitat in six trout streams in eastern Pennsylvania. Streams are all affiliated with current or proposed bottled water operations at natural spring sites and evaluations are designed to measure the impact of flow reductions on the streams by conducting electrofishing, water quality sampling and habitat evaluations above and below the points of withdrawal.

Turtle Creek Reservoir Fisheries Restoration Plan, IN. Project Lead. Issues which have likely affected the largemouth bass fishery in this constructed cooling water reservoir include: accumulation of selenium, elevated temperatures and temperature fluctuations, loss of deepwater refugia due to anoxia, eutrophication and associated algal blooms and loss of submerged aquatic vegetation, competition from other fish species, and predation by other fish species. Report outlined both short term and long term recommendations to aid in the recovery of the fishery.

National Science Foundation, Cascading Trophic Interactions in Four Northern Wisconsin Lakes, Wisconsin and Michigan. Investigated effects of changes in fish assemblages on trophic level interactions within lakes and ultimately the effects of those changes on the primary productivity and nutrient cycling in lakes. Responsible for supervision of fisheries field work, fall and winter limnological sampling, bioenergetics modeling of largemouth bass and the development of a computer based system for processing of zooplankton samples.

Oneida Lake Water Quality and Fisheries, Bridgeport, NY. As part of a multi-year study, collected weekly limnological samples and quantified fish population through use of a variety of gear. Data collected was a part of a 20+ year data collection effort used to actively manage the lake and establish long-term trends in water quality and fisheries. Conducted specific research on feeding preferences of young-of-the-year fishes and lamprey induced mortality of fishes.

Confidential Client, Aquatic Resource Investigation Review, Ms. Reviewed and provided guidance relative to trustee evaluation of impacted biota (fish and shellfish) and monetary compensation for those biota. Biota were impacted by a major spill of oxygen consuming substances in the freshwater portion of a large river that drains to the Gulf of Mexico.

RETEC, Deschutes River Natural Resource Damage Assessment for BNSF, OR. Directed a rapid-response team mobilized to evaluate impacts of a diesel spill to fisheries, water quality and macroinvertebrates utilizing a plan developed on-site within 24 hours of the spill. Was responsible for developing consensus among at least 10 major state federal and tribal trustees on the adequacy of both the response and restoration efforts on this premier anadromous trout and salmon river.



Publications and Presentations

Kretchmer, D.W. and L. Doner. 2015. Lake Wentworth, NH, How Good Were the Good Old Days? Presented at the 35th Symposium of the North American Lake Management Society, Saratoga Springs, NY.

Kretchmer, D.W. 2015. Watershed Management, A 360° View. Presented at the 2015 New England Association of Environmental Biologist Conference, Bartlett, NH.

Kretchmer, D.W. and W Arcieri. 2013. Phosphorus and Nitrogen Management in Coastal Pond Watersheds to Meet Different Objectives. Presented at the 33rd Symposium of the North American Lake Management Society, San Diego, California

Kretchmer, D.W. and A. Pratt. 2012. Piecemeal Watershed Management: Tackling Large Watersheds One Bite at a Time. Presented at the 32nd Symposium of the North American Lake Management Society, Madison, Wisconsin.

Kretchmer, D.W. 2012. Watershed Management. Presented at the 2012 NYS Federation of Lake Associations annual meeting. Hamilton, NY.

Kretchmer, D.W. 2011. Looking at Watershed Planning from Both Sides of the Table. Presented at the 31st Symposium of the North American Lake Management Society, Spokane, Wa.

Kretchmer, D.W. 2011. The Role of Fish in Lake Management. *Lakeline*. Volume 31, Number 2 p 29-33.

Kretchmer, D.W. 2010. Granite Lake: Watershed Planning for a High Quality Lake. Presented at the 30th Symposium of the North American Lake Management Society. Oklahoma City, Oklahoma.

Kretchmer, D.W., S. MacDougall, A. Basile and K. Wagner. 2009. 30 Lake TMDL's in New Hampshire, 30 Different Stories. Presented at the 29th Symposium of the North American Lake Management Society. Hartford, CT.

Kretchmer, D.W., K. Wagner and T. Conry. 2008. Management Options for Lake Waco. Presented at the 28th Symposium of the North American Lake Management Society. Lake Louise, Alberta, Canada.

Wagner, K.W. and D. Kretchmer. 2008. Nutrient Loading to Lake Waco in a Variable Climate. Presented at the 28th Symposium of the North American Lake Management Society. Lake Louise, Alberta, Canada

Kretchmer, D.W. 2007. Lake Management Research Priorities from the Perspective of Lake Residents and Lake Users. Presented at the 30th Congress of the International Society of Theoretical and Applied Limnology. Montreal, Canada

Kretchmer, D. W., K. Wagner and S. MacDougall. 2007. The Use of Models of Medium Scale to Conduct Lake Nutrient TMDLs. Presented at the 27th Symposium of the North American Lake Management Society. Orlando, FL.

Parasiewicz, P., T. Ballesterio and D. Kretchmer. 2005. Instream Flow Studies and Watershed Management Plan for the Souhegan River. Presented at the Universities Council on Water Resources (UCOWR) conference in Portland, Me. July 2005.



Juul S. and D.W. Kretchmer. 2000. Lateral and Vertical Total Dissolved Gas Concentrations within the Priest Rapids, Washington Hydroelectric Project. Presented at the 20th Annual Meeting of the North American Lake Management Society. November 2000.

Kretchmer, D.W., J. King, D. Ford and P. Massirer. 1998. Predictions Regarding the Aquatic System in the Lower Snake River after Dam Removal and Stabilization. Presented at the 18th Annual Meeting of The North American Lake Management Society November 10-13, 1998.

Frost, T.M., L.E. Graham, J.E. Elias, M.J. Haase, D.W. Kretchmer and J.A. Kranzfelder. 1997. A yellow-green algal symbiont in the freshwater sponge *Corvomeyenia everetti*: convergent evolution of symbiotic associations. *Freshwater Biology* 38:395-399

Kretchmer, D.W., J. King and T. Hutchins. 1993. Ice Fishing on a Public Water Supply: Are There Impacts? Presented at 13th Annual Meeting of the North American Lake Management Society. December 1-5, 1993.

Ruhl, P.M. and D.W. Kretchmer. 1986. The application of steady state phosphorus models for the rehabilitation of Lake Delavan, Wisconsin. Presented at 6th Annual Meeting of the North American Lake Management Society, November 5-8, 1986.

Water Resources Program. 1986. Delavan Lake: A recovery and management plan. Institute for Environmental Studies Special Report. Madison, Wisconsin, 420 pp.

Carpenter, S.R., J.F. Kitchell, J.R. Hodgson, P.A. Cochran, J.J. Elser, M.M. Elser, D.M. Lodge, D.W. Kretchmer, X. He and, C.N. von Ende. 1986. Regulation of lake ecosystem primary productivity by food web structure in whole lake experiments. *Ecology*. 1986.

Mills, E.L., J.L. Confer and, D.W. Kretchmer. 1986. Predation by young yellow perch: The influence of light, prey density, and predator size. *Trans. Amer. Fish. Soc.* 115:716-725, 1986.