



GREAT LAKES RESEARCH CONSORTIUM
RESEARCH, EDUCATION AND OUTREACH ON BEHALF
OF OUR GREAT LAKES



JULY 2010 NEWSLETTER

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GLRC News

Great Lakes Research Consortium Annual Directory – We need your assistance keeping our connections up to date!

The Great Lakes Research Consortium is currently preparing our **2010/11 Directory of Participants**. The purpose of the **Directory of Participants** is to help you locate colleagues who share your interests or whose collaboration might expand your current research. We also use it with government agencies, funding sources and others looking for individuals with particular expertise. Thanks in advance for your assistance in keeping our connections up to date!

We recently distributed an updatable membership information form via email. If you have not yet received the form and you would like to be included in the member directory, please email Heather Carrington at glrc@esf.edu.

2010-2011 Seminar Series: We are currently compiling a list of people who are willing to present a seminar at one of our member schools. The campus representative selects who to invite to his or her campus. The Consortium covers expenses. If you would be willing to present a seminar next academic year, please contact Heather at glrc@esf.edu. When a member institution selects your seminar, the GLRC will supply you with information about the host school and the person there who will be contacting you to make seminar and travel arrangements. We look forward to your participation.

If you were a seminar presenter last academic year, and would like to remove your seminar from our list or change your offering, please contact the GLRC. The 2009-2010 list can be accessed [here](#).

Great Lakes News:

[U.S. EPA gets up to \\$13M for Michigan river cleanup](#)

The U.S. Environmental Protection Agency said Monday the Obama Administration has authorized it to spend up to \$13 million to cover the government's immediate costs in responding to the spill of more than 1 million gallons of oil into the Kalamazoo River.

[Record outbreak of toxic algae feared for Lake Erie after hot summer](#)

Western Lake Erie could be on the verge of one of its worst algae outbreaks in years.

[Scientists rush to keep Asian carp out of Lake Erie](#)

While lawmakers in Indiana, Michigan and Illinois wrangle over a possible Asian carp invasion of the Great Lakes, scientists are working to decide what, if anything, can be done to stop the quickly spreading fish and other invasive species.

[Great Lakes beach closings down, but still lead nation](#)

Beach closings in the Great Lakes were down by 4 percent in 2009, but the region still leads the nation in closings, according to a new study released by the Natural Resources Defense Council.

[Great Lakes tempt a thirsty nation](#)

Some fear it's only a matter of time before pressure will grow to tap the Great Lakes to solve water availability problems in other areas.

Events:

Wednesday, September 25, 2010

[Great Lakes Research Consortium Annual Beach Cleanup](#)
Southwick Beach State Park, Woodville, NY

Friday, October 22, 2010

[2010 Lake Watershed Conference - It All Flows Downhill](#)

Location: Hamilton College - Fillius Events Center and Tolls Pavilion, Clinton, NY

Time: 8:30 am until 4:00 pm

Sponsors: Central New York Regional Planning and Development Board (CNY RPDB), Hamilton College, and Herkimer-Oneida Counties Comprehensive Planning Program (HOCCPP)

Audience: Local, county, regional and state agencies; city, town and village officials; environmental organizations; lake associations; state and local elected representatives; engineering and consulting firms; colleges and universities.

Summary: The conference agenda currently being developed will present an array of lake, stream and watershed issues associated with topics such as: climate impacts; nutrient cycling; funding initiatives and funding alternatives; invasive species; aquifers and small municipal water systems; and more.

For additional information contact the CNY RPDB at 315-422-8276 ext. 206

September 10 - October 2, 2010

[NAAEE 2010 Conference](#)

Buffalo-Niagara, New York

Environmental Education: Building Connections/Bridging Gaps. The 39th Annual NAAEE Conference will take place Sept. 29 - Oct. 2, 2010. Multiple scholarships and funding opportunities available with application deadlines in May-June. Call for presentations and student poster proposals: due May 1.

Phone: (202) 419-0412

E-mail: ee-news-subscribe@naaee.org

September 20-21, 2010

[Great Lakes Wind Collaborative 3rd Annual Meeting](#)

Cleveland, Ohio

Mark your calendars for the Great Lakes Wind Collaborative (GLWC) 3rd Annual Meeting in Cleveland, Ohio on September 20-21, 2010, and September 19 for a pre-meeting event. The Annual Meeting will bring together representatives of U.S. and Canadian federal agencies, state/provincial and local governments, the wind industry, electric utilities, nonprofit organizations, academia, and other interested stakeholders to discuss and address issues regarding the sustainable development of wind energy in the binational Great Lakes region.

Contact: Becky Pearson

Phone: 734-971-9135

E-mail: bpearson@glc.org

September 22-23, 2010

[U.S. Areas of Concern Program Annual Meeting](#)

Buffalo, New York

The U.S. AOC Program Meeting is held annually to review recent developments affecting the program; discuss approaches for implementing delisting targets; build capacity to implement on-the-ground restoration actions; identify opportunities to address AOC restoration priorities; improve linkages between the AOCs, Lakewide Management Plans (LaMPs) and other programs; and consider actions that will strengthen the regional U.S. AOC program.

Contact: Matt Doss

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Internship & Job Opportunities:

Associate Director, New York Sea Grant (NYSG)

New York Sea Grant is a highly rated university-based program of research, extension outreach, and education focused on addressing critical marine and Great Lakes coastal issues. Please see the [online job announcement](#) for the Associate Director's position. The appointee will lead NYSG's dynamic Extension program, have other significant Sea Grant leadership and programming responsibilities, and serve as the Assistant Director for Cornell Cooperative Extension, Coastal Programs.

NYSG is a cooperative effort between the State University of New York, Cornell University, and NOAA. This position is located at the renowned Ivy League Cornell campus in Ithaca, NY. Review of applications will begin on August 23rd.

Director of the Finger Lakes Institute

Office of Provost and Dean of Faculty

The Finger Lakes Institute at Hobart and William Smith Colleges (<http://fli.hws.edu/>) seeks a Director to provide vision, leadership, and management and guide the Institute to a greater level of regional and national prominence. Established in 2002, the Institute advances, coordinates, and disseminates scientific knowledge about the eleven Finger Lakes and surrounding environments in Upstate New York. In combination with its goal to preserve, protect and promote the Finger Lakes and its program of research, education and outreach, the Institute serves as a clearinghouse for environmental information for researchers, educators, policy makers, water quality officials, public and private stakeholders and the general public. The Institute also fosters environmentally-sound and sustainable development strategies throughout the region.

The Director of the Finger Lakes Institute reports to the Provost and Dean of Faculty of Hobart and William Smith Colleges and is responsible for the Institute's growth and development, as well as for oversight of its multiple programs and initiatives. The Director works in close collaboration with the Colleges' leadership including the President and Provost, an Advisory Board, members of the Colleges' faculty, the Director of Grants, Institute staff, students, and many regional constituencies.

See Hobart and William Smith website for further information:

http://www.hws.edu/offices/hr/employment/adm_2010_DIR_FLI.aspx

Postgraduate Internship Program Opportunities U.S. Environmental Protection Agency

Great Lakes National Program Office Chicago, Illinois Project #: EPA Region 5-GLNPO 2010-01

Protecting and Restoring Great Lakes Ecosystem Health

Project Description:

Postgraduate research opportunities are available with the U.S.

Environmental Protection Agency's (EPA) Great Lakes National Program Office (GLNPO) in Chicago, Illinois. The Great Lakes Water Quality Agreement (GLWQA) between the United States and Canada provides a framework for the two countries to restore and maintain the chemical, physical, and biological integrity of the waters of the Great Lakes basin ecosystem. As the U.S. Office responsible for implementing many of the provisions of the GLWQA, GLNPO has a fundamental role to collect and disseminate data on the physical, chemical and biological condition of the Great Lakes.

GLNPO conducts a water quality monitoring program that includes both nearshore and offshore waters of the Great Lakes, exploiting the capabilities of the 180 ft. research vessel R/V Lake Guardian and its specialized equipment. GLNPO also manages three contaminant monitoring programs: the Great Lakes Fish Contaminants Monitoring and Surveillance Program (GLFMSP), the International Atmospheric Deposition Network (IADN), and the Great Lakes Sediment Core Surveillance Program. GLNPO is also a sponsor and organizer of the triennial State of the Lakes Ecosystem Conference (SOLEC) and State of the Great Lakes assessment reports, which were established to provide independent, science-based reporting on the state of health of the Great Lakes. The specific activities in which GLNPO engages are determined in large measure by the data and information needed to support the GLWQA, Lakewide Management Plans, and other specific needs of our federal and state partners. Additional information about GLNPO may be found at www.epa.gov/glnpo.

Career developmental opportunities at GLNPO allow interns to participate in many facets of planning, implementation, monitoring, assessment and reporting of Great Lakes basin ecosystem components. Engaging in more than one project is encouraged, aligning the knowledge and interests of an intern with particular developmental opportunities. Project opportunities may include, but are not limited to, the following:

State of the Lakes Ecosystem Conference (SOLEC). For an international conference on the state of the Great Lakes to be fully successful, many details need to be planned and implemented. This project involves participating with U.S. and Canadian SOLEC organizers to ensure the next SOLEC, to be held in October 2011, will meet the high standards of previous events. Project elements that the intern may be involved in could include scientific literature searches and identification of sources of environmental data, development of Great Lakes environmental indicators and indices, collection and analysis of environmental data, preparation of reports on environmental indicators, preparation of oral and visual presentations, and participation in pre- and post-conference activities.

Great Lakes contaminants monitoring programs. This project will involve participating in the management and operation of GLNPO's contaminant monitoring programs. The intern could be part of the EPA team that conducts data review, statistical data analysis, laboratory and sampling site audits, prepares reports, and updates websites. The intern may have an opportunity to make a presentation at the International Association of Great Lakes Research (IAGLR) Annual Conference in Duluth in 2011.

Some background knowledge of organic chemistry would be beneficial to fully take advantage of this opportunity. For more information on GLFMSP and IADN, please visit the following websites:

<http://epa.gov/greatlakes/monitoring/fish/index.html> and

<http://epa.gov/greatlakes/monitoring/air2/index.html>.

Lakewide Management Plan implementation. Lakewide Management Plans (LaMPs) for Lake Superior and Lake Michigan provide a framework to formulate, analyze, recommend, and assess overall public policy options and implications. The intern will become part of the EPA team that collects and analyses environmental data; researches and assesses LaMP priorities. The intern may have the opportunity to participate on LaMP committees and workgroups that prepare reports, assess and recommend better linkages between LaMPs, SOLEC, Areas of Concern, and other Great Lakes programs; plan and implement scientific conferences. The intern may also be involved in meetings, conference calls and other activities.

Quality Management Support for the Great Lakes National Program Office.

This professional development opportunity allows for participation across multiple GLNPO monitoring and data collection activities. The primary project elements relate to reviewing and assisting the implementation of quality planning processes, which may include: quality system descriptions; laboratory and sampling Standard Operating Procedures; and in-house sampling operations; and project-level data validation. This project opportunity has been utilized in GLNPO from

1994 to 2007, and it has provided interns with valuable skills and experience to apply to other professional situations.

Great Lakes coastal wetland monitoring and analysis. A new coastal wetland monitoring program administered by GLNPO through a cooperative agreement may offer an opportunity for an intern to participate with partners in learning to collect marsh bird, amphibian, wetland plant, insect, and fish data. In addition, since geographic information systems (GIS) might be utilized, there may be an opportunity to learn or apply GIS methods.

Great Lakes water quality monitoring onboard the R/V Lake Guardian.

Since 1983, GLNPO has monitored the chemistry and biology of the Great Lakes using the research vessel R/V Lake Guardian. Typically, water samples are collected and analyzed for nutrients and standard limnological parameters; zooplankton tows, benthos (Ponar) grabs, and phytoplankton composites are collected and analyzed for their respective biological components; and assessments include statistical analysis and generation of reports.

Opportunities will be available to assist:

sampling water and biota of the Great Lakes; preparation of sample plans; maintenance and use of instrumentation; computerizing and review of data, participation in statistical analysis of data; and preparation of reports. Participation in field sampling requires living onboard the R/V Lake Guardian from a few days up to several weeks on any or all of the Great Lakes.

During the appointment, the intern will:

- Develop knowledge about the many complex elements of the Great Lakes ecosystem
- Increase skills in data analysis and reporting
- Learn the many facets required to plan and implement a complex project
- Develop skills and responsibilities for being part of an international team
- Develop skills to coordinate scientific projects
- Obtain professional contacts throughout the Great Lakes scientific community
- Increase field methodology skills
- Increase personal sense of professional responsibility

Qualifications:

Applicants should have received a bachelor's or master's degree in limnology, environmental science, biology, chemistry, natural resources, environmental engineering, or related fields within four years of the starting date. Applicants should have excellent verbal and written communication skills in English and the ability to perform as a team member. Basic knowledge of the Great Lakes basin ecosystems, experience in field work (biological and chemical sampling of lakes), computer skills, and excellent inter-personal skills are also desired. Applicants should be able to participate in occasional overnight travel.

Participation onboard the R/V Lake Guardian requires physical abilities and stamina; to be able to stand and navigate throughout the ship during inclement weather.

The appointment is full-time for one year and may be renewed upon recommendation of EPA and subject to availability of funds. A progress review will be conducted by EPA at the six month anniversary of the appointment to assess mutual agreement that the appointment should continue. The participant will receive a biweekly stipend. The intern does not become an employee of EPA nor of ORISE.

The program is open to all qualified individuals without regard to race, sex, religion, color, age, physical or mental disability, national origin, or status as a Vietnam era or disabled veteran. U.S. citizenship or lawful permanent resident status is preferred (but can also hold an appropriate visa status, however, an H1B visa is not appropriate). The intern must show proof of health and medical insurance.

Technical Information:

EPA's Great Lakes National Program Office is located in downtown Chicago, IL, at 77 W. Jackson Boulevard. Additional information may be found at www.epa.gov/glnpo.

How to Apply:

The Internship Program for EPA Water is administered by the Oak Ridge Institute for Science and Education (ORISE). Please reference Project # EPA Region 5-GLNPO 2010-01 when calling or writing for information. For additional information and application material contact: Internship Program - EPA Water, Attn: Betty Bowling - MS 36, ORISE, P.O. Box 117, Oak Ridge, Tennessee 37831 Phone: (865) 576-8503 Fax: (865) 241-5219 email: betty.bowling@orau.org.

An application can be found at

http://www.orau.gov/partform/EPA/EPA_Application.pdf.
