Michigan Tech Center for Water and Society Newsletter

Please send water-related items to post in the CWS weekly email to Carol Asiala at mtcws@mtu.edu. We would especially like to include on-campus seminar announcements, off-campus conferences and webinars, and notifications of new funding.

1. On-Campus Seminars
2. Keweenaw Geoheritage--Tours by Water and Land
3. Outreach
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9. CWS Student Research and Travel Grants
10. CWS Colloquium Course – UN5100 – next offered in Spring 2015
11. CUAHSI
12. Job Opportunities

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1. On-Campus Seminars

Friday, June 20, 2014

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**PhD Defense: Brenda Bergman, Forest Science**
Joseph Bump, Advisor

“Consumption Without Borders: Ecological and Psychological Perspectives on the Environmental Actions of Mammals who Directly Affect Both Aquatic and Terrestrial Ecosystems”

Forestry G002  9:00 am

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2. Keweenaw Geoheritage--Tours by Water and Land

Michigan’s Keweenaw Peninsula is known as a place of natural beauty with a fascinating mining history. Join local expert Bill Rose to learn how to read this landscape and how it came to be the way it is today. The Copper Country has a strong geoheritage comprised of five major events in Earth’s history. Rose has designed five two-day field trips that address each of these specific themes. Participants can look forward to covering lots of ground and being outside all the time with travel by boat, van and short walks.

1. **Lavas, July 21-22:** This trip focuses on the Keweenaw’s black rocks and its deep earth volcanic past; the site of Earth’s largest lava outpourings. We will visit massive lava flows and learn how they shape and influence the Keweenaw Peninsula.
2. **The Keweenaw Fault, July 23-24:** This trip focuses on the magnificent Keweenaw Fault, a massive thrust fault which split the peninsula lengthwise and uplifted rocks, including native copper, to a place where people could find it. This feature has shaped and beautified the Keweenaw but is no longer an active hazard.
3. **Jacobsville Sandstone, July 25-26:** The red rocks of the Keweenaw originate from the ancient, and once massive, Huron Mountains that eroded and filled the great valley of the
Keweenaw rift. We will visit important fossils in the area, an ancient window to the origins of life on Earth.

4. Keweenaw Glacial Geology, July 28-29: The Keweenaw was recently covered with more than two miles of ice. Explore this glacial history and how the lake has evolved since glacial retreat and its strong influence on our landscape by eroding and shaping the area leaving us many gifts.

5. Lake Superior Today, July 30-31: The existence of a huge lake in the midst of North America makes for a very special environment greatly affecting weather and daily life. This trip focuses on understanding the active processes of the lake today, the current geological and physical settings. Human induced environmental changes are a strong focus of this trip.

Each two-day trip costs $325 and includes lunch. Full more information, trip highlights and registration please visit: Geoheritage Tours.

For specific questions email: keweenawgeology@gmail.com

3. Outreach

2014 Summer Institutes & Courses for Teachers
June 23-27: Forest Ecology Teacher Institute on Belle Isle in Detroit, MI
July 7-11: Global Change Teacher Institute at Michigan Tech
July 14-18: Great Lakes Watershed Investigations Teacher Institute at Michigan Tech
July 21-25: Geology & Mineral Resources of Michigan's Upper Peninsula
August 1-9: Ecology of Isle Royale for Educators on Isle Royale

4. Reports & Action Plans

NOAA announces updated process for nominating new national marine sanctuaries
Public can now suggest locations for consideration
Sanctuary Nomination Process
Note from Sarah Green: “The public is invited to nominate places to be designated as protected areas. Surely parts of the Keweenaw would be appropriate, perhaps Keweenaw Bay? The process requires broad community support; this would be a good project for a class or student group to initiate.”

Great Lakes Land-based Marine Debris Action Plan
U.S. Department of Commerce
National Oceanic and Atmospheric Administration

Great Lakes Ecosystem Indicator Project Report
International Joint Commission

5. Conferences & Webinars
June 22-24, 2014

14th Annual Workshop on Brominated and Other Flame Retardants
Indianapolis, Indiana
Online registration is closed. Register on site or Contact Marta Venier at 812-855-1005

Monday, June 23, 2014

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Information webinar for Two New GLOS Funding Opportunities
(Data Management Mini Grants & Coastal Storms Program)
2:00 pm ET
To join the web conference: http://www.infiniteconferencing.com/join/
Participant Code: 37724099
For web conference audio: (877) 594-8353
Passcode: 37724099

Monday, June 23, 2014

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A Lake Erie Twofer: Tiny Plastic Particles and Toxic Algae Threaten Lake Waters
Lake Erie Binational Public Forum Webinar
10:00 AM - 12:00 PM EDT
To register visit: http://bit.ly/Tn9iad

June 23-26, 2014

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Coastal and Marine Spatial Planning Advancement Training (CMSP-AT)
University of Chicago, Quadrangle Club- Chicago, IL
No charge for attendance

Tuesday, June 24, 2014

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Jay Martin, Professor of Ecological Engineering, Ohio State University
“Changes in Climate in the Maumee Basin and Impacts on Harmful Algae Blooms in Lake Erie”
OSU Climate Change Webinar
12:00 – 1:00 pm ET
To register click here.

Tuesday, June 24, 2014

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Webinar about grant funding opportunity
Chi-Cal Rivers Fund
National Fish & Wildlife Foundation
10:00 am CT/11:00 ET
Register at www1.gotomeeting.com/register/265122457
A recording of the webinar will be available at www.nfwf.org/chi-cal following the conclusion of the live program.
RFP will be issued on June 17, 2014
Deadline: July 29, 2014
Tuesday, June 24, 2014
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Jeffrey McDonnell and Keith Beven
Debates on Water Resources: The future of hydrological sciences: A (common) path forward? "A call to action aimed at understanding velocities, celerities and residence time distributions of the headwater hydrograph"
CUAHSI Cyberseminar
12:00 pm EDT

July 9-10, 2014
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Monitoring Streams for Sediment
The United States Army Corps of Engineers (ACOE), and the Great Lakes Commission (GLC) are pleased to present a two-day introductory course on monitoring sedimentation in Indiana’s streams.
Ivy Court Inn Express & Suites, 1404 Ivy Court, South Bend, IN
Advanced Registration is required

July 28 - 30, 2014
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Water Management in Mining Summit
Denver, CO

July 28 - August 1, 2014
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2014 CUAHSI Biennial Meeting
Water Across the Critical Zone: From Local to Global Hydrology
National Conservation Training Center, Shepherdstown, WV

July 28 - August 1, 2014
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Interpreting the Sedimentary Record: Theory and Field Methods
The United States Army Corps of Engineers (ACOE), and the Great Lakes Commission (GLC) are pleased to present a week-long, advanced course on sedimentation
Great Lakes Maritime Academy, Traverse City, MI
Registration Deadline: July 21, 2014

September 29-30, 2014
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2014 Great Lakes Commission Annual Meeting
Buffalo, NY

6. Open RFPs of ongoing interest to CWS

List of Funding Opportunities announced on an annual basis (CWS web page)
National Coastal Wetlands Conservation Grant Program Fiscal Year 2015 - F14AS00071
Fish and Wildlife Service — Department of the Interior
Deadline: June 27, 2014

FY2014 FOA - Environmentally-Prudent Unconventional Resource Development
DE-FOA-0001076
Department of Energy
National Energy Technology Laboratory
Deadline: June 27, 2014

U.S. Science Support Program associated with the International Ocean Discovery Program (USSSP-IODP)
National Science Foundation
Deadline: June 30, 2014

National Integrated Water Quality Program - USDA-NIFA-ICGP-004527
Department of Agriculture
National Institute of Food and Agriculture
Deadline: July 3, 2014

Fiscal Year 2014 Northeastern Area State and Private Forestry
USDA Forest Service Northeastern Area
Great Lakes Restoration Initiative (GLRI)
Reply Due: July 14, 2014

Science Transfer Program
Great Lakes Fishery Commission
Deadline: July 15, 2014

Pre-Proposals to Fund Research that Could Fundamentally Transform Wastewater and Stormwater Management
2014 Unsolicited Research Program
Water Environment Research Foundation (WERF)
Pre-Proposal with deadline: July 17, 2014 by 5:00 PM ET

Chi-Cal Rivers Fund
National Fish & Wildlife Foundation
Webinar: June 24, 2014 at 10:00 am CT/11:00 ET
Register at www1.gotomeeting.com/register/265122457
A recording of the webinar will be available at www.nfwf.org/chi-cal following the conclusion of the live program.
RFP will be issued on June 17, 2014
Deadline: July 29, 2014

Sustainable WASH Support in South Sudan
Agency for International Development
APS-OFDA-14-000001
Agency for International Development
Deadline: July 31, 2014
The Joyce Foundation
Letter of Inquiry: July 11, 2014
Proposal Deadline: August 13, 2014
The Foundation does not fund individual scientific research unless the work has potential to impact the entire Great Lakes Basin, and then with reservations. Their primary Great Lakes funding is in Milwaukee addressing industrial pollution and in Chicago to eliminate invasive species. Please contact Priscilla Khoury (pjkhoury@mtu.edu) if there is interest in this RFP.

Collections in Support of Biological Research - 14-564
National Science Foundation
Deadline: August 11, 2014, 2nd Monday in July, annually thereafter

Biological Oceanography
PD-98-1650
National Science Foundation
Deadline: August 15, 2014

Chemical Oceanography
PD-98-1670
National Science Foundation
Deadline: August 15, 2014

Marine Geology & Geophysics
PD-98-1620
National Science Foundation
Deadline: August 15, 2014

Air, Climate And Energy (ACE) Centers: Science Supporting Solutions
U.S. Environmental Protection Agency
Office of Research and Development
National Center for Environmental Research
Science to Achieve Results (STAR) Program
Deadline: September 4, 2014

National Land Remote Sensing Education Outreach and Research Activity (NLRSEORA), DOI, USGS
Deadline: September 14, 2014 (anticipated)

Coastal Program - Great Lakes Restoration Initiative
F14AS00096
Fish and Wildlife Service — Department of the Interior
Deadline: September 30, 2014

FY 2014 - 2015 Broad Agency Announcement (BAA)
NOAA-NFA-NFAPO-2014-2003949
Department of Commerce – NOAA
Deadline: September 30, 2015

Oceanographic Facilities and Equipment Support
ONRFOA14-002: Funding Opportunity Announcement for Navy and Marine Corps Science, Technology, Engineering
Office of Naval Research — Department of Defense
Deadline: December 31, 2014

NASA ROSES 2014

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7. New Funding Opportunities

To submit research proposals through the Center for Water and Society, select ‘CWS’ for the Institute/Center for project drop box on the transmittal sheet. The transmittal sheet must then be signed by the CWS Director, Noel Urban, on page 4.

If Noel Urban is unavailable to sign transmittal sheets, Carol Asiala (GMES) can also sign for CWS.

Data Management Mini Grants
Great Lakes Observing System (GLOS)
Pre-proposal deadline: 1:00 pm ET, Friday July 18, 2014
Webinar: Monday, June 23, 2014 at 2:00 pm ET

**COASTAL STORMS PROGRAM: Great Lakes Community Nearshore Observing Asset**
Great Lakes Observing System (GLOS)
Proposal deadline: 1:00 pm ET, Friday July 18, 2014
Webinar: Monday, June 23, 2014 at 2:00 pm ET

**U.S.-Israel Binational Science Foundation (BSF)**
The BSF is increasing its cooperation with the NSF (and indirectly in some programs also with the NIH and USDA), and it may be worthwhile for you to follow on our website (www-bsf.org.il) the RFPs for these programs. In most of these programs submission is to the NSF by the U.S. applicant alone (although the application describes the role and budget of the Israeli PI) and to the BSF by both PIs. Processing is done at the NSF, and if awarded a grant, the US PI receives a regular NSF grant, while the Israeli receives a special, larger than traditional, BSF grant. Disciplines in which such joint programs are currently being developed include: Biology, Computer Science*, Oceanography, Physics, Economics, and Neurosciences.

2. Deadline for the various regular BSF programs:
Regular Grant program (Physical Sciences, Exact Sciences, Social Sciences, Ecology)- Nov. 13, 2014
Prof. Rahamimoff travel Grant Program for young Scientists (PhD students). Dec. 3, 2014

**Postdoctoral Program in Environmental Chemistry**
Camille and Henry Dreyfus Foundation
Deadline: August 11, 2014

**Quagga-Mussel Containment in the West**
Search for Funding Opp #: F14AS00210
Department of the Interior
Fish and Wildlife Service
July 15, 2014

**Accelerating the Incorporation of Climate Change Knowledge into Adaptation Planning for National Park Service Assets in the Great Lakes Region**
Search for Funding Opp #: P14AS00129
Department of the Interior
National Park Service
Deadline: June 25, 2014

8. **Graduate Certificate in Sustainable Water Resources Systems**

**Note this policy change:**
Students must fill out an online application to the Grad School in order to work towards a certificate. Students should apply and be accepted into a certificate program before starting the coursework to be used for the certificate. Only 1/3 of previously completed credits can be applied to the certificate degree schedule.

**Link to online application:** http://www.mtu.edu/gradschool/programs/certificates/
9. CWS Student Research Grants and Travel Grants

**Research Awards:** Graduate and undergraduate research awards are now due the first Friday in December and March of each year, and the 2nd Friday in August.

December 6, 2013  March 7, 2014  August 8, 2014

Each award can be up to $750. Awards can also be used to support undergraduate research in formal class settings (e.g. Enterprise, Senior Design, Pavlis, senior thesis, capstone classes etc.). The research should support the Center's mission (http://www.mtcws.mtu.edu/about.html#mission).

**Travel Awards:** Graduate student travel grants ($500) are also available through the Center for Water and Society to present a water related paper at a conference. Applications are reviewed on the last Friday of each month, and must be submitted at least 1 week in advance of planned travel.

Applications for Travel and Research grants are online at: http://www.mtcws.mtu.edu/education_studentgrants.html

To maximize funding for new students we will limit awards to one travel and one research award for Master's students and undergrads, and a maximum of two travel and two research awards for Ph.D. students.

Student advisors must be a faculty member of CWS (CWS Faculty)

Students will also be required to indicate how they would like to provide a return on the CWS investment. Options include:
   a. presenting a poster at World Water Day in March;
   b. assisting with preparations for World Water Day;
   c. assisting with CWS-sponsored outreach activities;

10. CWS Colloquium Course – UN5100 – next offered Spring 2015

Center for Water & Society Colloquium Course –
Spring 2014 Topic: “Communicating Wicked Environmental Problems”
Course Number: UN5100, CRN 14698, 1 credit
Course Organizer: Judith Perlinger (iperl@mtu.edu)
Finalized Schedule: Tuesdays, 3:30-4:30, EERC 501
http://www.mtcws.mtu.edu/education_colloquium.html
11. CUAHSI (Consortium of Universities for the Advancement of Hydrologic Science, Inc.)

Michigan Technological University is a member university of CUAHSI (http://www.cuahsi.org) through the support of the Center for Water & Society and the CEE and GMES departments. Explore their website for resources available to faculty and research.

CUAHSI Cyberseminar Schedule: http://www.cuahsi.org/Cyberseminars.aspx

12. Job Opportunities

**Branch Chief Position, Great Lakes Modeling and Forecasting**
NOAA’s Great Lakes Environmental Research Laboratory
Ann Arbor, MI
Deadline: June 19, 2014

**Project Officer (Global Ocean Observing System Biology and Ecosystems Panel)**
Australian Institute of Marine Science and the Oceans Institute of the University of Western Australia
Deadline: June 23, 2014

**IAGLR Job Board**
Job Opportunities in the Great Lakes

**School of Marine and Atmospheric Sciences, Stony Brook University**
Vessel Maintenance Technician – R/V Seawolf Deckhand – WC-S-9000-14-06-S
Vessel Field Support Technician – R/V Seawolf Deckhand – WC-S-9002-14-06-S
Coastal Zone Engineering and Management Cluster Hiring
Postdoctoral Associate in Fisheries Ecology
Faculty Positions in Atmospheric Science

**State of Minnesota**
Hydrologist & Natural Resources positions
https://statejobs.doer.state.mn.us/JobPosting
Search on Job Grouping=Environmental Sciences
Or Department = Pollution Control Agency  (includes summer jobs for students)

**The Ohio Environmental Council – Careers & Internships**

**Positions posted on CUAHSI web site**
(Careers/fellowships/post-docs/research assistantships/faculty positions)

**Saginaw Bay District Extension Educator**
Michigan Sea Grant
Greening Michigan Institute
Michigan State University Extension
Review begins June 20, 2014