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
4. Conferences & Webinars
5. Open RFPs of on-going interest to CWS
6. New Funding Opportunities
7. Graduate Certificate in Sustainable Water Resources Systems
8. CWS Student Research and Travel Grants
9. CWS Colloquium Course – UN5100 – next offered in Spring 2015
10. CUAHSI
11. Job Opportunities

1. On-Campus Seminars

Tuesday, July 1, 2014

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Get a Look at How Scientists Study the Great Lakes
Portage Lake Library 6:00 - 9:00 pm
Reserve a space on the Agassiz by calling the Portage District Library at 482-4570, or sign up at library checkout desk.

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
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. Conferences & Webinars

Wednesday, July 9, 2014
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Informational Webinar for Air, Climate, and Energy (ACE) Centers RFA
The U.S. Environmental Protection Agency (EPA),
12:00 p.m. - 1:00 p.m. 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

Thursday, July 10, 2014
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Priscilla Brooks, Conservation Law Foundation
Charlie Wahle, NOAA MPA Center
“Building Capacity to Sustainably Manage Increasing Recreational Uses in MPAs”
Webinar hosted by: NOAA National MPA Center, OpenChannels.org, and the Ecosystem-Based Management (EBM) Tools Network
1:00 pm EDT
Please join us and Register at: https://www1.gotomeeting.com/register/295848472
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

5. Open RFPs of ongoing interest to CWS

**List of Funding Opportunities announced on an annual basis** (CWS web page)

**Climate Change Upper Gunnison Basin in Colorado**
Search Fund Opp #: L14AS00155
Department of the Interior
Bureau of Land Management
Deadline: July 10, 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

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

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

COASTAL STORMS PROGRAM: Great Lakes Community Nearshore Observing Asset
Great Lakes Observing System (GLOS)
Proposal deadline: 1:00 pm ET, Friday July 18, 2014

Riparian Mapping in MT - Search Fund Opp #: L14AS00157
Department of the Interior
Bureau of Land Management
Deadline: July 20, 2014

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

National Priorities: Systems-Based Strategies to Improve The Nation's Ability to Plan And Respond to Water Scarcity and Drought Due to Climate Change
EPA-G2014-ORD-L1
Environmental Protection Agency
Deadline: August 5, 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.
Postdoctoral Program in Environmental Chemistry
Camille and Henry Dreyfus Foundation
Deadline: August 11, 2014

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

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.

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

**Oceanographic Facilities and Equipment Support**
13-589
National Science Foundation
Deadline: December 15, 2014

**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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### 6. 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.

**Cooperative Ecosystem Studies Unit, Great Lakes Northern Forest CESU**  
Search Funding Opp #: G14AS00109  
“Food web structure and trophic transfer across Lake Erie’s productivity gradient”  
Department of the Interior  
Geological Survey  
Deadline: July 8, 2014

**Cooperative Ecosystem Studies Unit, Great Lakes Northern Forest CESU**  
Search Funding Opp #: G14AS00112  
"Development of remote sensing as a tool for monitoring polar bears on Wrangel Island and the Chukotka Peninsula"  
Department of the Interior  
Geological Survey  
Deadline: July 8, 2014

**small research projects related to Lake Michigan food webs**  
The Illinois-Indiana and Michigan Sea Grant College Programs  
Letter of Intent Deadline: July 18, 2014  
Full Proposal Deadline: August 11, 2014

**2014 Understanding Climate Impacts on Fish Stocks and Fisheries to Inform Sustainable Management**  
NOAA-OAR-CPO-2014-2004106  
NOAA Climate Program Office  
Department of Commerce  
Letter of Intent Deadline: July 14, 2014  
Full Proposal Deadline: September 12, 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  
Funding Opportunity Number: EPA-G2014-STAR-J1  
Deadline: September 4, 2014  
**Webinar: July 9, 2014 (noon – 1:00 EDT)**

**Air Pollution Monitoring for Communities**  
U.S. Environmental Protection Agency  
Office of Research and Development  
National Center for Environmental Research  
Science to Achieve Results (STAR) Program  
Funding Opportunity Number: EPA-G2014-STAR-K1  
Deadline: October 7, 2014
7. 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/](http://www.mtu.edu/gradschool/programs/certificates/)

Links to certificate degree schedule:
CWS Web page: [http://www.mtcws.mtu.edu/education_gradcert.html](http://www.mtcws.mtu.edu/education_gradcert.html)
Grad School: [http://www.mtu.edu/gradschool/administration/academics/forms-deadlines/pdfs/Certificates-ICSW.pdf](http://www.mtu.edu/gradschool/administration/academics/forms-deadlines/pdfs/Certificates-ICSW.pdf)

8. 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.

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<th>December 6, 2013</th>
<th>March 7, 2014</th>
<th>August 8, 2014</th>
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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](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](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;
9. 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 (jperl@mtu.edu)
Finalized Schedule: Tuesdays, 3:30-4:30, EERC 501
http://www.mtcws.mtu.edu/education_colloquium.html

10. 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

11. Job Opportunities

NOAA Branch Chief Position, Great Lakes Observing System Engineering
NOAA’s Great Lakes Environmental Research Laboratory
Ann Arbor, MI

IAGLR Job Board
Job Opportunities in the Great Lakes

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)

Center for Water and Society Web Site: http://www.mtcws.mtu.edu