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
   [Poster Registration Deadline: Friday, March 6]
3. Conferences & Webinars
4. Open RFPs of on-going interest to CWS
5. New Funding Opportunities – New GLRI opportunity
6. Graduate Certificate in Sustainable Water Resources Systems
7. CWS Student Research (Deadline: March 6) and Travel Grants (Deadline: Feb 27)
8. CWS Colloquium Course – UN5100 – Spring 2015
9. CUAHSI
10. Job Opportunities
11. Student Opportunities

1. On-Campus Seminars

Monday, February 16, 2015
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There is no Environmental Engineering Seminar today.

Tuesday, February 17, 2015
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PhD Defense: Ashley Coble, Biological Sciences
Amy Marcarelli, Advisor
“Biogeochemical Cycling in Lake Superior Tributaries: Seasonality, Quantity, and Quality of Export”
GLRC 202 9am – 10am

Wednesday – February 18, 2015
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Dr. Kate Buckeridge, Post-doctoral Scientist
Kansas Biological Survey & Department of Ecology and Evolutionary Biology
University of Kansas
"Global change feedbacks to ecosystem carbon and nitrogen cycling"
Biological Sciences Faculty Candidate in Environmental Microbiology
MEEM 402 1:00 pm

Thursday, February 19, 2015
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Jennie Tyrrell, Ph.D. candidate, CEE
"The Effects of Climate Change on Sediment Transport and Bridge Scour"
Civil Engineering Graduate Seminar
Dow 642 4:00 pm
Thursday, February 19, 2015

Green Film Series presents: *Forks Over Knives*
Two out of every three of us are overweight. Heart disease, cancer and stroke are the country’s three leading causes of death, even though billions are spent each year to “battle” these very conditions. Millions suffer from a host of other degenerative diseases. What can we do? The film will empower us to live healthier lives by changing the way we understand nutrition. (96 min)

**Discussion Facilitator:** Ray Sharp, Community Planning & Preparedness, *Western U. P. Health Department*
G002 Hesterberg Hall, Forestry Building  7:00 – 9:00pm
Cosponsored by: Lake Superior Stewardship Initiative, Michigan Tech Center for Water & Society, Keweenaw Unitarian Universalist Fellowship, and Keweenaw Land Trust

Tuesday, February 24, 2015

Susan Martin, Social Sciences, emerita

**Indigenous Cultural Elements of Keweenaw and Isle Royale**
Carnegie Museum Seminar Series: Natural History of the Keweenaw
Carnegie Museum Seminar Room, Downtown Houghton  6:30 - 8:00 pm

2. **World Water Day Events: March 19-24, 2015**

**Thursday, March 19:**
Green Film Series: *“DamNation”*
Explores changes in national attitude from pride in big dams as engineering wonders to growing awareness that our future is bound to the life and health of our rivers. Where obsolete dams come down, rivers bound to life, giving wild fish the right of return to primeval spawning grounds, after decades without access. *DamNation*’s majestic cinematography and unexpected discoveries move through rivers and landscapes altered by dams, but also through a metamorphosis in values, from conquest of the natural world to knowing ourselves as part of nature. (87 min)
Forestry G002, 7:00 pm

**Monday, March 23:**
The **World Water Day lecture** will be an afternoon talk presented by Dr. Peter Goodwin on river restoration. Dr. Goodwin is the Director of the [Center for Ecohydraulics Research](https://www.uidaho.edu/ceh) at the University of Idaho and also served as the science director for the California Delta Program.
GLRC 202, 4:00 pm, reception following

All Graduate and Undergraduate students are invited to participate in the [Center for Water & Society student Poster Competition](https://www.mtu.edu/water-poster/) to be held on Monday, March 23. The poster competition is open to graduate and undergraduate students. Posters are judged by a panel of 3 faculty members, and cash prizes are awarded in 2 categories: “Original Research” and “Coursework/Informational”.  **Register by Friday, March 6**

**NOTE:** In the **Coursework/Informational** category of posters, points will be awarded based on how the poster incorporates the World Water Day theme of “Water and Sustainable Development”.
Students are available for Q&A discussions 2:30 – 4:00 pm in the 1st floor hallway of the GLRC. Posters will be on display through Tuesday, March 24.

An **Art Exhibit** in the GLRC is also planned to coincide with World Water Day. 
Art Exhibit: *"The Texture of Water"*
Artists: Jamie Allen (painting), Tom Rudd (sculpture), Paul Rose (photography)
An Introduction to the Art Exhibit will be held at 3:30 pm on Monday, March 23 in GLRC 201. The exhibit will run through the end of April.

**Tuesday, March 24:**
Panel Discussion: *"What role will dams play in future water resource management?"*
Panel members:
- **Peter Goodwin**, Professor of Civil Engineering, Center for Ecohydraulics Research, University of Idaho, specializing in Geomorphology in River Restoration
- **Bill Leder**, President, Copper Country Trout Unlimited and Dept. of Civil Engineering, Michigan Tech
- **Dave Rulison**, Otter Lake Property Owners Association
- **Jim Pawloski**, Michigan Department of Natural Resource Water Resources Division, Dam Safety (invited)
GLRC 202, 9:00 am


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3. Conferences & Webinars

**Wednesday, February 18, 2015**

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**Webinar: National Flood Interoperability Experiment (NFIE)**
The National Water Center and the University of Alabama, CUAHSI
3:00 ET

**Thursday, February 19, 2015**

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**R. Benjamin Clark**, wetland and water quality specialist for DTE Energy

**Webinar: “Zebra & Quagga Mussels: A Great Lakes Battle”**

[Register Link] 12:00 pm EST

**Tuesday, February 24, 2015**

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**Dr. Upmanu Lall of the Columbia Water Center**
Special Cyberseminar series - State of America’s Water: Present and Future
CUAHSI – 12:00 pm EST

**Wednesday, February 25, 2015**

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**SEES: Interactions of Food Systems with Water and Energy Systems Webinar**
Hosted by the NSF to provide guidance and answer questions concerning Dear Colleague Letter: SEES: Interactions of Food Systems with Water and Energy Systems.
1:00-3:00 pm EST

**Wednesday, February 25, 2015**

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**Stream Channel Repair and Restoration Following Extreme Flooding Damage: Part 1 - Background and Planning**
Webinar Presented by the USDA NRCS East National Technology Support Center
2:00 pm EST
(Part 2 – Design & Implementation will be held on March 26)

**February 23 – March 31, 2015**

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**Changing Weather and Climate in the Great Lakes Region: A University of Wisconsin-Madison Massive Open Online Course (MOOC).**
The 4-week MOOC will feature a new season each week through short lectures and activities covering Great Lakes weather, observed changes in the climate, and societal impacts of climate change.

MOOCs are free, non-credit, online learning opportunities, which are available to anyone interested in learning with us. They are one of the many ways UW-Madison extends our lifelong learning and outreach mission to new audiences.

**February 24-26, 2015**

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**Great Lakes Commission Semiannual Meeting and Great Lakes Day**
Washington, DC

**February 24-26, 2015**

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**20th Anniversary Wetland Science Conference, Telling Our Stories**
Madison, WI

**Friday, March 6, 2015**

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**Michigan Chapter Soil and Water Conservation Society (SWC) Seminar**
“A MATTER OF BALANCE: Feeding our Crops and Protecting our Water in a Changing Climate”
Michigan State University, East Lansing, Michigan 8:00 – 5:00

**Tuesday, March 10, 2015**

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**2015 The Great Lakes: Advancing Knowledge and Improvement**
The Great Lakes Conference
Kellogg Center, MSU, East Lansing, MI
Wednesday, March 11, 2015
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2015 Shoreline and Shallows Conference: Challenges and Successes
Michigan Natural Shoreline Partnership
Kellogg Center, MSU, East Lansing, MI

March 11-12, 2015
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2015 Areas of Concern Annual meeting
United States Environmental Protection Agency
Toledo, OH

Thursday, March 12, 2015
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Webinar: DEQ Revolving Loan Fund Opportunities and Recent Program Changes
Michigan Department of Environmental Quality
10:00 – 11:30 am EST

Wednesday, March 25, 2015
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Watershed Summit
Michigan Water Environment Association
East Lansing, MI

Thursday, March 26, 2015
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Stream Channel Repair and Restoration Following Extreme Flooding Damage: Part 2 – Design and Implementation
Webinar Presented by the USDA NRCS East National Technology Support Center
2:00 pm EST

Thursday, April 23, 2015
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Webinar: DEQ Wastewater Treatment Technology Webinar
Michigan Department of Environmental Quality
10:00 – 11:30 am EST

May 1-2, 2015
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Michigan Lake and Stream Associations: Managing Aquatic Invasive Species in Michigan’s Inland Lakes
Michigan Lake & Stream Associations 54th Annual Conference
Boyne Mountain Resort, Boyne Falls, MI

4. Open RFPs of ongoing interest to CWS

List of Funding Opportunities announced on an annual basis (CWS web page)
Sustain Our Great Lakes

Pre-proposal deadline: February 18, 2015
Grant funding for work in the Great Lakes basin will be awarded in 1) Stream and Riparian Restoration and 2) Coastal Wetland Restoration

View Webinar about RFP

Water Resources Research - National Competitive Grants Program
G15AS00019
USGS and National Institutes for Water Resources (NIWR)
Investigator's Deadline: February 19, 2015
Institute Approval deadline: March 12, 2015

Conservation Innovation Grants
USDA-NRCS-CIG-15-01
Department of Agriculture
Natural Resources Conservation Service
Pre-proposal Deadline: February 24, 2015
Webinar: February 4, 2015

Research Excellence Fund (REF)
Michigan Tech
Budget Deadline: March 2, 2015
Deadline: March 5, 2015

NOAA Great Lakes Habitat Restoration Project Grants under the U.S. Great Lakes Restoration Initiative in Areas of Concern
NOAA-NMFS-HCPO-2015-2004351
Department of Commerce, NOAA
Deadline: March 3, 2015

Core Facilities Proposals
Michigan Tech
Deadline: March 5, 2015
Current Core Facilities

Michigan Sea Grant 2015 RFP
1) Integrated Assessment (pre-proposal) – Research that uses integrated methods to address important social and ecological issues affecting the Great Lakes ecosystem and communities, up to $75,000 per year.
2) Core Research (pre-proposal) – Focused on issues currently affecting the Great Lakes ecosystem, up to $115,000 per year.
3) Graduate Student Research Fellowships (proposal) – Funding for graduate students for one or two years, up to $80,000 per year.

Pre-proposal Deadlines for 1) and 2): March 6, 2015
Full Proposal Deadlines: May 29, 2015

Environmental Education (EE) Grants
US Environmental Protection Program
Coastal and Estuarine Land Conservation Program - FY 2015 Great Lakes Competition
NOAA-NOS-OCM-2015-2004327
Department of Commerce
Deadline: March 20, 2015

Integrated Ocean Observing System (IOOS) Federal Funding Opportunity (FFO)
Great Lakes Observing System (GLOS) is issuing a Request for Pre-Proposals to support development of a collaborative proposal to the Integrated Ocean Observing System (IOOS) Federal Funding Opportunity (FFO).
Pre-proposal Deadline: March 31, 2015

2015 Community Pollution Prevention Grant Program - Enhancing Local or Regional Recycling Programs
MI DEQ Community P2 Grants Program
Deadline: April 1, 2015
Webinar: February 11, 2015 10:00 a.m. EST. The webinar will be to learn more about funding through the P2 Program. Register

Management of UNOLS Marine Technician Pool - 15-525
National Science Foundation
Deadline: April 15, 2015

GLRI: Great Lakes Fish Monitoring and Surveillance Program RFA
US Environmental Protection Program
Deadline: April 17, 2015

Great Lakes Sediment and Nutrient Reduction Program
Great Lakes Commission
Deadline: April 24, 2015

FY 2016 Implementation of the U.S. Integrated Ocean Observing System (IOOS®)
Search for Funding Opportunity Nbr: NOAA-NOS-IOOS-2016-2004378
Department of Commerce, NOAA
Deadline: August 31, 2015

Cooperative Landscape Conservation and Science Support
Search Funding Opp#: F15AS00000
Department of the Interior, Fish and Wildlife Service
Deadline: September 30, 2015

The Coastal Program
F15AS00005
Department of the Interior, Fish and Wildlife Service
Deadline: September 30, 2015

The Partners for Fish and Wildlife Program
Search Funding Opp#: F15AS00004
Department of the Interior
Fish and Wildlife Service
Deadline: September 30, 2015

**Fish and Wildlife Management Assistance**
Search Funding Opp#: F15AS00013
Department of the Interior
Fish and Wildlife Service
Deadline: September 24, 2015 (This is an open announcement; proposals will be reviewed and evaluated on a rolling basis)

**NASA ROSES 2014**

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<tr>
<th>APPENDIX</th>
<th>PROGRAM</th>
<th>NOI/Step 1 DUE DATE [2]</th>
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<tr>
<td>A.4</td>
<td>Terrestrial Ecology</td>
<td>1/20/2015</td>
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<td>A.27</td>
<td>Rapid Response and Novel Research in Earth Science</td>
<td>N/A</td>
<td>Rolling Submissions through 03/31/2015</td>
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<td>E.2</td>
<td>Topical Workshops, Symposia, and Conferences</td>
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<td>Submissions through 03/31/2015</td>
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**NASA ROSES 2015** has been released

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<td>A.2</td>
<td>Land Cover / Land Use Change</td>
<td>12/1/2015 (Step 1)</td>
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<td>A.3</td>
<td>Ocean Biology and Biogeochemistry</td>
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<td>A.6</td>
<td>Biodiversity</td>
<td>TBD</td>
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<td>A.10</td>
<td>Surface Water and Ocean Topography Science Team</td>
<td>4/15/2015</td>
<td>5/15/2015</td>
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<td>A.14</td>
<td>Cryospheric Science</td>
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<td>6/17/2015</td>
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<td>A.15</td>
<td>IceBridge Observations</td>
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<td>5/18/2015</td>
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<td>A.22</td>
<td>Science Utilization of the Soil Moisture Active-Passive Mission</td>
<td>3/19/2015</td>
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<td>A.23</td>
<td>Precipitation Measurement Missions Science Team</td>
<td>4/30/2015</td>
<td>6/30/2015</td>
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<td>A.25</td>
<td>Earth Surface and Interior</td>
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<td>N/A</td>
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</table>
5. 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.

**Support the National Environmental Monitoring Conference (NEMC) as Part of the Environmental Measurement Symposium**
EPA-OSA-2015-01
Environmental Protection Agency
Deadline: March 31, 2015

6. Graduate Certificate in Sustainable Water Resources Systems

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)

7. 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 5, 2014  March 6, 2015  August 7, 2015
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) or the students must be supported on a CWS-affiliated research grant.

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;

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8. CWS Colloquium Course – UN5100 –Spring 2015

**Center for Water & Society Colloquium Course**

**Spring 2015 Topic: Science & Policy**

**Course Number:** UN5100, CRN 13480, 1 credit

**Time/Location:** Tuesdays 3:35-4:24 in Dow 873

**Course Organizer:** Noel Urban

http://www.mtcws.mtu.edu/education_colloquium.html

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9. 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:** https://www.cuahsi.org/Cyberseminars

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10. Job Opportunities

**Director of the University of Minnesota Sea Grant College Program**
University of Minnesota Duluth, Duluth, MN, USA
Review begins March 2, 2015

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

**State of Minnesota**
Hydrologist & Natural Resources positions
[https://statejobs.doer.state.mn.us/JobPosting](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 CUAHISI web site**
(Careers/fellowships/post-docs/research assistantships/faculty positions)

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11. Student Opportunities

**Michigan Sea Grant Fellowships**
- Great Lakes Commission Fellowship (deadline: February 27, 2105)
- Michigan Sea Grant Graduate Student Research Fellowship (deadline: May 29, 2015)

**National Flood Interoperability Experiment Summer Institute**
The National Water Center and the University of Alabama, CUAHISI
Application Deadline: February 28, 2015
**Next Webinar: Wednesday, Feb 18 at 3:00 ET**

**University at Buffalo Research Experience for Undergraduates (REU):**
Ecosystem Restoration through Interdisciplinary Exchange (ERIE)-REU
**Program Dates:** May 27 to August 7, 2015 (10 weeks plus a 3-day orientation)
Application Deadline: February 27, 2015

**NSF Summer Research Experience for Undergraduates**
Lake Erie Center, The University of Toledo, OH
Deadline: March 27, 2015

Center for Water and Society Web Site: [http://www.mtcws.mtu.edu](http://www.mtcws.mtu.edu)