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.

2. On-Campus Seminars
3. New Funding Opportunities
4. IAHR / IAGLR
5. Reports and Action Plans
6. Conferences & Webinars
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10. CWS Colloquium Course – UN5100 –Spring 2016
11. Seminar Speaker Support Program
12. CUAHSI (Consortium of Universities for the Advancement of Hydrologic Science, Inc.)
13. Job Opportunities
14. Student Opportunities


2016 Theme: Water and Jobs

CWS World Water Day Event Flyer

World Water Day Poster Session: Tuesday, March 22
There will be 2 categories of cash prizes: Original Research and Coursework/Informational. Graduate and Undergraduate entries are encouraged.
Registration Deadline: Friday, March 4 (just before Spring break); email registration to mtcws@mtu.edu

Keynote Speaker: John Austin is the director of the Economic Center at Prima Civitas Foundation, a senior fellow at the Brookings Institute, and a lecturer at the University of Michigan. He is well known for his ideas about the potential of the Blue Economy, a revitalization capitalizing on the abundant water resources of the Great Lakes region.
Title: “Water is our Past- Water is our Future”- How Michigan’s and the Great Lakes Region’s Natural Water Assets and Water Innovation Abilities Can Drive a New Blue Economy
Abstract
Dow 641 at 4:00 pm on Tuesday, March 22

Panel Discussion: "Blue Economy" will include participants who can bring local insights into the general topic of water and economy.
Panelists:
John Austin, Prima Civitas Foundation
Alex Mayer, CEE, Michigan Tech
Green Film: “Lost Rivers”
Examines hidden waterways in cities around the world. More and more municipal governments are making their once-buried waterways more accessible. Explores how and why cities buried their rivers beneath them, and the process many are undertaking to "daylight" them once again. 
**Forestry G002 at 7:00 pm on Wednesday, March 23**

Art Exhibit: "On Currents and Eddies"
Featuring artists, Philip Faulkner, Rachel Singel, Nicholas Lampert, and the Northwoods Kids
**GLRC March 18 - April 31, 9:00-5:00 Mondays-Fridays**

2. On-Campus Seminars

Environmental Engineering Seminars (Spring 2016)
Mondays at 3:00 pm in Dillman 214

**Monday, February 15, 2016**

Renn Lambert, LimnoTech
Environmental Engineering Seminars
“Hydrodynamic and Sediment Transport Models to support USEPA’s response to the 2010 Kalamazoo River Oil Spill”
Dillman 214 3:00 pm
**Abstract**

**Tuesday, February 16, 2016**

Rod Chimner, SFRES
“The fascinating world of wetlands: an overview of types, importance, issues and restoration of our local wetlands.”
Carnegie Museum Community Room, Houghton 6:30 -8:00 pm

**Thursday, February 18, 2016**

Green Film: Feeding Frenzy
Over the past three decades, obesity rates in the U.S. have more than doubled for children and tripled for adolescents -- and a startling 70% of adults are now obese or overweight. The result has been a widening epidemic of obesity-related health problems. Frenzy examines the impact of the processed food industry and outmoded government policies. (63 min.)

Discussion Facilitator:
Ray Sharp, Manager, Community Planning and Preparedness and Coordinator of Western UP Food Hub, Western U.P. Health Department
Forestry G002 7:00 – 8:30 pm
Cosponsored by:
Friday, February 19, 2016

David Watkins, CEE
“Understanding Socioeconomic Drought in Central Texas and Predicting”
GeoSeminar Series
Dow 610   4:00 pm

Friday, February 19, 2016

Rachel Kauff, visiting artist
“Past Use: Ecology and Art Objects”
Biological Sciences Seminar
Dow 641   4:00 pm
This event is co-sponsored by the Department of Biological Sciences, the Department of Visual and Performing Arts and the Visiting Women and Minority Lecture Series which is funded by a grant to Institutional Equity and Inclusion from the State of Michigan's King-Chavez Initiative.

3. 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.

Research Excellence Fund
Michigan Technological University
Budget Deadline: March 1, 2016
Proposal Deadline: March 10, 2016

Climate Model Development and Validation
Funding Opportunity Number: DE-FOA-0001530
Letter of Intent Due Date: March 3, 2016
Application Due Date: March 25, 2016
Non DOE-Laboratory institutions may apply as members of multiple teams.

GBLCC FY16 Request for Pre-Proposals for Information Synthesis, Knowledge Discovery, and Conservation Planning
F16AS00092
Department of the Interior, Fish and Wildlife Service
Pre-proposal deadline: March 25, 2016

SERDP Seed Solicitation
DoD
Pre-proposal deadline: March 8, 2016
ESTCP - Environmental Technologies Solicitation
DoD
Pre-proposal Deadline: April 5, 2016
Webinar: Feb 19, 2016 at 1:00 pm

Community-based Restoration Program Coastal and Marine Habitat Restoration Grants
NOAA-NMFS-HCPO-2016-2004800
Department of Commerce, NOAA
Deadline: April 6, 2016

Environmental Education Local Grants Program
Environmental Protection Agency
Deadline: April 8, 2016

Gulf Research Program
The National Academies of Sciences, Engineering, Medicine
Letter of Intent deadline: February 17, 2016
Proposal Deadline: April 13, 2016

NOAA Sea Grant Aquaculture Research Program 2016
Oceanic and Atmospheric Research (OAR), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce
Pre-proposal deadline: March 10, 2016
Deadline: May 12, 2016

4. IAHR / IAGLR
The 23rd IAHR International Symposium on Ice will be held at the University of Ann Arbor from May 31 – June 3, 2016. This symposium takes place once every four years at different locations around the world, and this is the first time it is taking place at U of M. IAGLR will be in Guelph, ON from June 6-10. It may be of interest for some of you to attend both.

a) IAGLR

b) 23rd IAHR International Symposium on Ice
International Association of HydroEnvironment Engineering and Research (IAHR) Conference Dates: May 31 – June 3, 2016 University of Michigan, Ann Arbor This international symposium is held once every 4 years

5. Reports and Action Plans
Great Lakes Lakewide Action and Management Plans 2015 Annual Reports Available Online

The 2015 Lakewide Action and Management Plan Annual Reports for lakes Superior, Michigan, Huron, Erie and Ontario have just been published.

The 2015 LAMP annual reports highlight accomplishments and progress in achieving LAMP goals during the past year, and identifies LAMP-related activities including outreach, monitoring, protection and restoration actions. Lakewide Action and Management Plans (LAMPS) are developed and implemented for each Great Lake. Each LAMP facilitates information sharing, sets priorities, and assists in coordinating binational environmental protection and restoration activities as prescribed in Annex 2 of the amended 2012 Great Lakes Water Quality Agreement.

For more information, visit Binational.net.

6. Conferences & Webinars

February 21-26, 2016
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2016 Ocean Sciences Meeting in New Orleans
AGU - ASLO
New Orleans, Louisiana

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Semiannual Meeting of the Great Lakes Commission and Great Lakes Day
Washington, to be held at the Westin Washington, D.C. City Center

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21st Annual Wetland Science Conference
Wisconsin Wetlands Association
Green Bay, WI
Call for Presentations and Posters deadline: November 15, 2015

March 2-3, 2016
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2016 Areas of Concern Annual Meeting
US Environmental Protection Agency
University of Michigan at Dearborn, MI

Friday, March 4, 2016
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A MATTER OF BALANCE: Systems Approaches to Managing Great Lakes Landscapes
Michigan Chapter Soil and Water Conservation Society
Kellogg Hotel and Conference Center, East Lansing, MI
9:00 a.m. to 4:30 p.m.
March 10-11, 2016
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American Water Resources Association - Wisconsin Section
Theme: "40 Years of Wisconsin Waters: Quantity, Quality, Technology"
Wisconsin Dells

Friday, March 11, 2016
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Rick Healy, USGS
"Overview of Water and Energy using recently published USGS Circular 1407: The Water Energy Nexus – An Earth Science Perspective as a resource"
3:00 pm EST

Thursday, March 24, 2016
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Upper Great lakes Law and Policy Symposium: Managing Water Across Boundaries
Minnesota Sea Grant
Duluth, MN  8:00 am – 6:30 pm

May 2-4, 2016
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Training Workshop: The Community WRF-Hydro Modeling System
CUAHSI Training Workshop
Boulder, Colorado
Early Bird Registration Deadline: March 15, 2016

May 31 – June 3, 2016
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23rd IAHR International Symposium on Ice
International Association of HydroEnvironment Engineering and Research (IAHR)
University of Michigan, Ann Arbor
This symposium is held once every 4 years

June 6-10, 2016
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IAGLR
IAGLR's 59th Annual Conference on Great Lakes Research,
Conference Theme: Great Lakes Solutions: Integrating Across Disciplines & Scales
Guelph, Ontario
The Call for Abstracts will be open December – January.

June 5-10, 2016
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ASLO 2016 Summer Meeting
The Association for the Science of Limnology and Oceanography (ASLO)
Santa Fe, NM

June 6-10, 2016
7. Open RFPs of ongoing interest to CWS

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

**Sustain Our Great Lakes** will solicit applications for funding to restore and enhance habitat in the Great Lakes basin. In 2016, grant funding will be awarded in two categories:

- Stream and Riparian Habitat
- Coastal Wetlands

Pre-proposal deadline: February 17, 2016

**Great Lakes Long-Term Biology Monitoring Program: Phytoplankton Component**
EPA-R5-GL-2016-1
Environmental Protection Agency
Deadline: February 22, 2016

**Water Resources Research National Competitive Grants Program**
Search Funding Opp#: **G16AS00016**
Department of the Interior, Geological Survey
Investigator Deadline: February 25, 2016

**2016 Community Pollution Prevention (P2) Grant Program**
Michigan Department of Environmental Quality (DEQ)
Deadline: February 29, 2016
RFP Webinar: February 3, 2016 at 10:00 am,
Register here: [https://attendee.gotowebinar.com/register/3951964019761026561](https://attendee.gotowebinar.com/register/3951964019761026561)

**Research Excellence Fund**
Michigan Technological University
Budget Deadline: March 1, 2016
Proposal Deadline: March 10, 2016

**Ecosystem Health & Sustainable Fish Populations: Habitat Protection and Restoration: Habitat Information Initiative**
Great Lakes Fishery Trust
Deadline: March 8, 2016

**Earth System Modeling**
Search Funding Opp#: **DE-FOA-0001482**
Department of Energy - Office of Science
Deadline: March 14, 2016
National Priorities: Impacts of Water Conservation on Water Quality in Premise Plumbing and Water Distribution Systems
Search Funding Opp#: EPA-G2016-ORD-B1
Environmental Protection Agency
Deadline: March 17, 2016

Climate Model Development and Validation
Search Funding Opp#: DE-FOA-0001530
Department of Energy - Office of Science
Letter of Intent Due Date: March 3, 2016
Deadline: March 25, 2016

2016 Great Lakes Sediment and Nutrient Reduction Program (GLSNRP)
Great Lakes Commission
Deadline: March 31, 2016

BREP 2016
(National Bycatch Reduction Engineering Program)
Search Funding Opp#: NOAA-NMFS-FHQ-2016-2004799
Department of Commerce
Pre-Proposal Deadline: Tuesday, March 1, 2016
Deadline: April 15, 2016

Regional and Global Climate Modeling and Integrated Assessment Research: An Integration Framework for Multi-Model, U.S. Regional Climate Evaluation that Incorporates Local Human Influences for Research at the Energy-Water-Land Nexus
Search Funding Opp#: DE-FOA-0001531
Department of Energy - Office of Science
Pre-proposal Deadline: March 7, 2016
Deadline: April 18, 2016

Outreach and Education, Technical Assistance, and Financial Education for FSA Programs, Functions, and Activities
USDA-FSA-CA-2016-001
Department of Agriculture, Farm Service Agency
Deadline: May 27, 2016

Coastal Program
Search Funding Opp#: F16AS00006
Department of the Interior, Fish and Wildlife Service
Deadline: September 30, 2016

FY2016 to FY2017 NOAA Broad Agency Announcement (BAA)
Search Funding Opp#: NOAA-NFA-NFAPO-2016-2004791
Department of Commerce, NOAA
Deadline: September 30, 2017

Partners for Fish and Wildlife Program
Search Funding Opp#: **F16AS00007**  
Department of the Interior, Fish and Wildlife Service  
Deadline: October 7, 2016

**NSF Announcements:**

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<th>Title</th>
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<td>14-502</td>
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<td>PD 98-1650</td>
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<td>PD 15-1440</td>
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<td>PD 09-6882</td>
<td>Environmental Chemical Sciences (ECS)</td>
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<td>15-558</td>
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<td>Accepted Anytime</td>
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<td>PD-06-5740</td>
<td>Climate and Large-Scale Dynamics</td>
<td>Accepted Anytime</td>
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<td>15-560</td>
<td>Geomorphology and Land-use Dynamics (GLD)</td>
<td>Accepted Anytime</td>
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<td>15-516</td>
<td>Earth Sciences: Instrumentation and Facilities (EAR/IF)</td>
<td>Accepted Anytime</td>
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**NASA ROSES 2016 will be announced on or about February 16, 2016**

**NASA ROSES 2015**

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<th>APPENDIX</th>
<th>PROGRAM</th>
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<td>A.2</td>
<td>Land Cover / Land Use Change</td>
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<td>A.3</td>
<td>Ocean Biology and Biogeochemistry</td>
<td>1/7/2016</td>
<td>3/3/2016</td>
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8. Graduate Certificate in Sustainable Water Resources Systems

Currently enrolled students can download the Certificate Degree Schedule to plan their coursework. When they have completed the required courses, or are enrolled in the last ones, the certificate degree schedule should be submitted to Nancy Byers Sprague (nspr@mtu.edu) in the Graduate School.

Request from CWS: If you plan to complete the certificate please email mtcws@mtu.edu
- If you are not already on the CWS email list, you will be added and will receive announcements of water-related activities and the opportunity to apply for travel and research grants.
- We would like to keep a list of students working towards the certificate, and then we also have an idea of which students need to enroll in the UN5100, the Center for Water and Society colloquium course.

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

9. CWS Student Research Grants (March 4) and Travel Grants (Feb 26)

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 4, 2015    March 4, 2016    August 12, 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;

10. CWS Colloquium Course – UN5100 – Spring 2016

Center for Water & Society Colloquium Course

Spring 2016 Topic: “WHEN CAN WE EAT THE FISH? An interdisciplinary approach to address the wicked environmental problem of Hg, PCBs, & PAHs”

Course Number: UN5100, CRN 13300, 1 credit

Time/Location: Tuesdays 3:35-4:25 in Dow 875

Course Organizer: Valoree Gagnon, vsgagnon@mtu.edu

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

In this 1-credit colloquium, you will learn about collaborative interdisciplinary research by using an on-going project as a case study. This project is focused on addressing the global and local problems associated with atmosphere-surface exchangeable pollutants (ASEPs) such as mercury, PCBs, and PAHs.

This course is required for the CWS Graduate Certificate in Sustainable Water Resources Systems. Course Flyer

11. Seminar Speaker Support Program

Center for Water and Society members can apply for assistance in bringing seminar speakers to Michigan Tech. Lecture topics should be of interest to CWS and the visit should correspond with CWS goals. The Seminar Speaker Request form should be emailed to Carol Asiala at mtcws@mtu.edu.

12. 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

13. Job Opportunities

**Program Coordinator**
Great Lakes Observing System (GLOS)
Applications accepted through February 19, 2016

**Assistant Scientist- NRRI and LLO**
University of Minnesota, Duluth

**Invasive Species Program Specialist**
Great Lakes Commission
Application deadline: February 26, 2016

**Postdoc – Software Development Framework Connecting Models, Remote Sensing Data, and Field Measurements**
NASA Jet Propulsion Lab
Application deadline: March 31, 2016

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

**The Stewardship Network – Job Postings**

**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)

14. Student Opportunities

**Social Science Outreach Assistant**
Illinois-Indiana Sea Grant
Applications accepted through March 6, 2016
**Fellowship Announcement**
Doctoral Residency in Science Communication
USGS Northwest Climate Science Center and UI-CNR McCall Outdoor Science School,
McCall, Idaho
Deadline: February 15, 2016

**MS/PhD Graduate Research Assistantships and a Post Doc**
Microbial Ecology Laboratory, University of Minnesota Duluth

**Sea Grant Fellowships**
Deadlines: February, 2016
2. International Joint Commission - Deadline: February 27, 2016

**Research Associateship Programs**
The National Academies
4 application deadlines throughout the year
Participating agencies include: NOAA and EPA

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