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. Course Announcements
   - ENVE5930 Seminar on Coupled Natural and Human Systems: Payments for Ecosystem Services
   - UN5990 Climate Science and Policy in 2015
3. Conferences & Webinars
4. New Funding Opportunities
5. Open RFPs of on-going interest to CWS
6. Graduate Certificate in Sustainable Water Resources Systems
7. CWS Student Research (Deadline: December 4) and Travel Grants
8. CWS Colloquium Course – UN5100 – next offered Spring 2016
9. CUAHSI
10. Job Opportunities
11. Student Opportunities

1. On-Campus Seminars

Friday, August 28, 2015
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Masters Defense: David Faber, Geology
Advisor: Louisa Kramer
“Analysis of NO2 and HCHO Vertical Column Densities in the Great Lakes Region Using the Ozone Monitoring Instrument”
Dow 633    12:00 pm

Friday, August 28, 2015
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PhD Defense: S.M. Mizanur Rahman, Environmental & Energy Policy
Advisor: Audrey Mayer
“Ship Breaking Industry in Bangladesh: Perspectives from Industrial Ecology, Political Ecology and Environmental Policy”
Academic Offices 201    1:00 pm

Monday, August 31, 2015
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Gennady Gienko, PhD, Professor and Chair, Department of Geomatics
University of Alaska-Anchorage
“3D Modeling Using Structure From Motion (SFM): Applied Terrestrial, UAS, and Aerial Photography”
UN 4000 Remote Sensing Seminar Series
2. Course Announcements

**ENVE 5930: Seminar on Coupled Natural and Human Systems: Payments for Ecosystem Services**
A One Credit Multi-University Seminar Course
Fall 2015 Fridays 12:30-2:00 Eastern Time
Register for ENVE 5930 (CRN 83200)
Michigan Tech Lead Instructor– Dr. Alex Mayer (asmayer@mtu.edu)

**UN5990 (crn 83683) Climate Science and Policy in 2015**
1 credit, Cap 30
Instructor: Dr. Sarah A. Green (sgreen@mtu.edu)
Wednesday 04:05 - 04:55
Chem Sci 211
Description: The 21st Conference of the Parties, COP21, will take place in December 2015 in Paris with the goal of reaching a universal agreement to limit global climate change. This one-time course will discuss science and policy topics relevant to the COP meeting and follow real time news during the "Road to Paris." It will briefly cover the basic science of climate change and the history of climate policy. Additional specific topics will be guided by the interests of the class and current events; topics may include an analysis of the commitments and outcomes of previous climate agreements, United States and global energy policies, who's who in the negotiations, analysis of current "Intended Nationally Determined Contributions" and the "emissions gap", climate finance, climate myths and communication, translation of science into policy, mitigation and adaptation strategies, and the roles of non-governmental, religious, and activist organizations in shaping climate policy.

Open to students from all disciplines. Graduate students or upper division undergraduates. No prereqs. No permissions required.

3. Conferences & Webinars

**Wednesday, September 2, 2015**

Lake Superior Stakeholder Webinar: Lakewide Management - Outreach and Engagement
Webinar Registration Information:
2:00 – 4:00 pm EDT
The webinar technology will allow for participants to electronically signal that they have a question or comment, and will allow for verbal participation. The technology will also allow participants to type questions and comments that can be read and responded to by the webinar hosts. Due to the potential number of participants, it may not be
possible to receive or respond to all participants’ questions or comments during the webinar. Following the webinar, participants will be able to submit questions or comments to:

For U.S. participants: glwqa@glnpo.net
For Canadian participants: glwqa-aqegl@ec.gc.ca

Sincerely,
Chris Korleski John Marsden
US EPA Environment Canada

Other Great Lakes Stakeholder Webinars:
Lakewide Management - Outreach and Engagement

Lake Huron: September 1, 2015; 2:00 – 4:00 pm EDT
https://gts-ee.webex.com Meeting: 550 314 884

Lake Michigan: September 9, 2015; 2:00 – 4:00 pm EDT
https://attendee.gotowebinar.com/register/5706603155711987713 Webinar ID: 120-762-251

Lake Ontario: September 11, 2015; 2:00 – 4:00 pm EDT
https://gts-ee.webex.com Meeting: 553 628 066

Lake Erie: September 15, 2015; 2:00 – 4:00 pm EDT
https://attendee.gotowebinar.com/register/247410276078704129 Webinar ID: 115-034-499

Sept – November 11, 2015
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National Marine Protected Areas Center – Webinars
Sept. 10, 2015 Maps and Datasets for Blue Carbon Habitats
Oct. 8, 2015 Evaluating MPA Education Programs
Nov. 11, 2015 National Park Service Ocean Parks Centennial

Tuesday, September 15, 2015
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Webinar: National Water Quality Monitoring Council
“Science Communication with Emphasis on Visual Science Communication Tools”
Caroline Donovan of the Integration and Application Network
2:00 pm EST

September 15, 2015 – Competition Deadline
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NSF Visualization Challenge

Wednesday, September 16, 2015
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Webinar: DEQ and The Recycling Partnership: Tools, Techniques, and Resources for Improving Curbside Recycling Collection
Michigan Dept of Environmental Quality
Register 10:00 -11:00 am EDT

September 18, 2015 – Call for Abstracts Deadline
9th annual Science, Practice & Art of Restoring Native Ecosystems Conference
Conference Dates: January 15th & 16th, 2016
Kellogg Conference Center on the campus of Michigan State University in East Lansing
Abstracts for Panel Discussions, Presentations, Roundtables, and Workshops are due by: Friday, September 18th, 2015
For more information, visit: www.stewardshipnetwork.org/submit-abstract
Abstracts for Posters and Student Posters are due by: Friday, November 20th
For more information, visit: www.stewardshipnetwork.org/submit-poster

September 23, 2015 - Call for Abstracts Deadline

2016 Ocean Sciences Meeting in New Orleans (Feb 21-26)
Session ID: 9565
Session Title: Comparing Physical Processes in Shallow Seas, Large Lakes, and Semi-Enclosed Basins
Session Topic: Physical Oceanography/Ocean Circulation

September 29-October 1, 2015

11th Annual Great Lakes Restoration Conference
Healing Our Waters-Great Lakes Coalition
Chicago, Illinois

Upcoming CUAHSI Summer and Fall 2015 Trainings
September 28 – October 2, 2015
Direct-Push Methods for High-Resolution Characterization of Subsurface Properties: From Theory to the Field
University of Kansas, Lawrence, KS

October 20-24, 2015
The Role of Runoff and Erosion on Soil Carbon Stocks: From Soilscapes to Landscapes
Purdue University, West Lafayette, IN

Fall 2015 CUAHSI Cyberseminar Series
Host: Todd Caldwell, Bureau of Economic Geology, University of Texas
Title: “The Western US Drought on the Ground and from Space: Combining in situ and remotely sensed data to understand and mitigate drought”
Speakers:
Oct 2: Steven Quiring, Texas A&M University
Oct 9: Bridget Scanlon, Bureau of Economic Geology, University of Texas-Austin
Oct 16: Justin Huntington, Desert Research Institute
Oct 23: Mark Svoboda, National Drought Mitigation Center, University of Nebraska-Lincoln
Oct 30: Narendra Das, NASA’s Jet Propulsion Lab

October 28-30, 2015
9th Biennial State of Lake Michigan and 15th Annual Great Lakes Beach Association Joint Conference
Grand Traverse Resort and Spa near Traverse City, Michigan


21st Annual Wetland Science Conference
Wisconsin Wetlands Association
Green Bay, WI
Call for Symposia deadline: September 30, 2015
Call for Presentations and Posters deadline: November 15, 2015

4. 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 for the International Network for Environmental Compliance and Enforcement (INECE)
EPA-OECA-OFA-1501
Environmental Protection Agency
Deadline: October 5, 2015

5. Open RFPs of ongoing interest to CWS

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

Broad Agency Announcement: Ocean Dynamics and Prediction Oceanography (73-13-01)
United States Department of Defense (DOD)
Department of the Navy
Naval Research Laboratory (NRL)

Great Lakes Restoration Initiative 2015
EPA
- Invasive Species Prevention (EPA-R5-GL2015-ISP)
- Invasive Species Control (EPA-R5-GL2015-ISC)
- Urban Watershed Management Implementation (EPA-R5-GL2015-UWM)
- Agricultural Watershed Management Implementation (EPA-R5-GL2015-AWM)
- Maumee River Watershed Nutrient Prevention Pilot Project (EPA-R5-GL2015-MNP)
Deadline: September 28, 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

Coastal Program - Great Lakes Restoration Initiative (F15AS00096)
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)

Marine Fisheries Initiative (MARFIN)
Search Funding Opp#: NOAA-NMFS-SE-2016-2004533
Department of Commerce, NOAA
Deadline: October 2, 2015

FY2016 Community-based Marine Debris Removal
NOAA-NOS-ORR-2016-2004578
Department of Commerce
Deadline: November 2, 2015

Early Career Research Program
Search Funding Opp#: DE-FOA-0001386
Department of Energy - Office of Science
Deadline: November 19, 2015
Program areas: Advanced Scientific Computing Research (ASCR); Biological and Environmental Research (BER); Basic Energy Sciences (BES), Fusion Energy Sciences (FES); High Energy Physics (HEP), and Nuclear Physics (NP)

Climate Program Office FY 2016
Search Funding Opp#: NOAA-OAR-CPO-2016-2004413
Department of Commerce, NOAA
Deadline: December 15, 2015
### NSF Announcements:

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Title</th>
<th>Proposal Deadline</th>
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<tr>
<td>15-577</td>
<td>Collections in Support of Biological Research (CSBR)</td>
<td>September 10, 2015</td>
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<td>14-502</td>
<td>Coastal SEES</td>
<td>October 2, 2015</td>
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<td>14-584</td>
<td>Arctic Research Opportunities</td>
<td>October 19, 2015</td>
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<tr>
<td>PD 15-7643</td>
<td>Environmental Sustainability</td>
<td>October 20, 2015</td>
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<td>PD 15-1417</td>
<td>Chemical and Biological Separations</td>
<td>October 20, 2015</td>
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<tr>
<td>PD-15-1440</td>
<td>Environmental Engineering</td>
<td>October 20, 2015</td>
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<tr>
<td>PD 09-6882</td>
<td>Environmental Chemical Sciences (ECS)</td>
<td>November 2, 2015</td>
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<tr>
<td>14-601</td>
<td>Dynamics of Coupled Natural and Human Systems (CNH)</td>
<td>November 17, 2015</td>
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<tr>
<td>12-505</td>
<td>Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML)</td>
<td>December 11, 2015</td>
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<tr>
<td>15-568</td>
<td>Earth Sciences Postdoctoral Fellowships (EAR-PF)</td>
<td>January 12, 2016</td>
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<tr>
<td>15-504</td>
<td>Major Research Instrumentation Program (MRI)</td>
<td>January 22, 2016</td>
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<td></td>
<td>Limited Submission –Internal Deadline:</td>
<td>December 11, 2015</td>
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<tr>
<td>15-500</td>
<td>Division of Environmental Biology (core programs) (DEB)</td>
<td>Pre-Proposal: Jan. 25, 2016</td>
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<td>Full Proposal: Aug 2, 2016</td>
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<td>Full Proposal: Aug 2, 2016</td>
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<tr>
<td>PD 98-1650</td>
<td>Biological Oceanography</td>
<td>February 16, 2016</td>
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<td>PD 98-1670</td>
<td>Chemical Oceanography</td>
<td>February 15, 2016</td>
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<tr>
<td>PD 98-1620</td>
<td>Marine Geology &amp; Geophysics</td>
<td>February 16, 2016</td>
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<tr>
<td>15-596</td>
<td>Long-Term Ecological Research</td>
<td>March 4, 2016</td>
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<tr>
<td>15-555</td>
<td>Faculty Early Career Development Program (CAREER)</td>
<td>July 20-22, 2016, depending on Program</td>
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<tr>
<td>14-559</td>
<td>Opportunities for Promoting Understanding through Synthesis (OPUS)</td>
<td>August 1, 2016</td>
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<tr>
<td>15-558</td>
<td>Hydrologic Sciences (HS)</td>
<td>Accepted Anytime</td>
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<tr>
<td>PD-06-5740</td>
<td>Climate and Large-Scale Dynamics</td>
<td>Accepted Anytime</td>
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<tr>
<td>15-560</td>
<td>Geomorphology and Land-use Dynamics (GLD)</td>
<td>Accepted Anytime</td>
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### NASA ROSES 2015

<table>
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<tr>
<th>APPENDIX</th>
<th>PROGRAM</th>
<th>NOI/Step 1 DUE DATE [2]</th>
<th>PROPOSAL DUE DATE</th>
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<tbody>
<tr>
<td>A.3</td>
<td>Ocean Biology and Biogeochemistry</td>
<td>TBD</td>
<td>TBD</td>
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<td>A.6</td>
<td>Biodiversity</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>A.25</td>
<td>Earth Surface and Interior</td>
<td>7/16/2015</td>
<td>9/16/2015</td>
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<tr>
<td>A.26</td>
<td>Rapid Response and Novel Research in Earth Science</td>
<td>N/A</td>
<td>Rolling Submissions through 3/31/2016</td>
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<tr>
<td>A.35</td>
<td>New (Early Career) Investigator Program in Earth Science</td>
<td>6/30/2015</td>
<td>8/31/2015</td>
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<tr>
<td>E.3</td>
<td>Topical Workshops, Symposia, and Conferences</td>
<td>N/A</td>
<td>Rolling Submissions through 3/31/2016</td>
</tr>
</tbody>
</table>
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/

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

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 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;

8. CWS Colloquium Course – UN5100 – next offered Spring 2016

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

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

10. Job Opportunities

Lake Erie Campaign Manager
The Alliance for the Great Lakes
Application Accepted through September 7, 2015

Project Manager (ecosystems-focused project manager; community-focused project manager)
Delta Institute
Chicago or Lansing

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)
11. Student Opportunities

**Pathfinder Fellowship Competition**
Travel Grants to Support Multisite or Multidisciplinary Water Science Research - Go beyond "One site, One view"
CUAHSI
Application Deadline: October 16, 2015

**Sea Grant Fellowships**
---------- Forwarded message ----------
From: Clarence Fullard <cfullard@umich.edu>
Date: Thu, Aug 27, 2015 at 2:35 PM
Subject: Sea Grant Fellowships
To: naauer@mtu.edu

Hi Nancy--sorry if you're not the right contact, but since you're a fisheries biologist I thought you may be able to help me out...

I work at MI Sea Grant and am trying to spread the word about our 4 graduate fellowships below. In the past, the majority of our fellows have come from either MSU or UofM, and I'm trying to make sure that all MI schools are aware of these amazing opportunities:

1. NOAA Knauss Fellowship
2. Great Lakes Commission Fellowship
3. NOAA Coastal Management Fellowship
4. International Joint Commission Fellowship

In addition to these, we're able to assist students with applications to the NOAA Fisheries graduate fellowship program.

I'm making my way around the state to various university job fairs, and am wondering if there's an appropriate venue in which I could present these opportunities to MTU environmental studies students? Past applicants range from social scientists, to fisheries biologists, to engineers and law students.

Thanks Nancy!

Clarence Fullard
Program Coordinator
Michigan Sea Grant
University of Michigan
School of Natural Resources & Environment
520 E. Liberty St., Suite 310
Ann Arbor, MI 48104-2210

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