Michigan Tech Water Newsletter
Please send water-related items to post in the weekly email to Carol Asiala at glrcadmin-l@mtu.edu. We would especially like to include on-campus seminar announcements, off-campus conferences and webinars, and notifications of new funding and other member highlights.

New Funding
IAGLR 2018 Call for Sessions
On-Campus Seminars
New Funding Opportunities
Courses for Spring 2018 -
Request Contribution numbers for GLRC Publications
Reports and Action Plans
Conferences & Webinars
Open RFPs of ongoing interest
Graduate Certificate in Sustainable Water Resources Systems
Student Research Grants (December 1) and Travel Grants (October 27)
Colloquium Course – UN5100 – next offered: Spring 2018
Seminar Speaker Support Program
Job Opportunities
Student Opportunities

1. New Funding

Erin Burkett, Environmental and Energy Policy PhD student, was awarded a $78,497 Michigan Sea Grant Graduate Student Research Fellowship. Fellows work with a faculty advisor and an agency sponsor to conduct research that supports existing Great Lakes research. The awarded project, titled "I once caught a fish "THIS BIG": Using Participatory Photovoice to Understand Michigan's Great Lakes Anglers", will explore the reasons Michigan residents participate in Great Lakes recreational fishing. Richelle Winkler (SS/GLRC) is Erin’s advisor.

Martin Auer (CEE/GLRC), is the principal investigator on a project that has received a $28,637 research and development contract from the Mona Lake Watershed Council. The project is titled "Mona Lake Monitoring and Modeling.” This is a one and a half year project.

2. IAGLR 2018 Call for Sessions

IAGLR 2018 Call for Sessions
International Association for Great Lakes Research (IAGLR)
Conference Theme: Great Science for Tomorrow's Solutions
Deadline: November 10, 2017
Conference Dates: June 18-22, 2018 in Toronto
3. On-Campus Seminars

**Monday, October 23, 2017**
Kelly Kamm, Kinesiology & Integrative Physiology  
*Epidemiology in a world of engineers: Cross-disciplinary research*  
Environmental Engineering Seminar Series  
GLRC 202, 3:00 pm

**Monday, October 23, 2017**
Dr. Josef Dufek, Earth and Atmospheric Sciences, Georgia Tech  
*Volcanology at the Tipping Point: An Exploration of the Dynamics that Determine the Fate of Explosive Eruptions*  
Earth, Planetary, and Space Sciences Institute (EPSSI) Seminar Series  
M&M U113, 4:00 pm

**Wednesday, October 26, 2017**
Winona LaDuke, American environmentalist, economist, writer  
Social Justice Lecture Series in coordination with The Center for Diversity and Inclusion  
MUB Ballroom, 5:30 - 7:30 pm

**Thursday, October 26, 2017**
Danielle Shannon (SFRES)  
*"Helping Forested Watersheds Cope with a Changing Climate"*  
GLRC 202, 6:30 p.m.

**Monday, October 30, 2017**
Ashley Hendricks, Graduate Student, Civil & Environmental Engineering  
*Model Validation as a Critical Component for the Management of Mercury Contamination in Lakes*  
Environmental Engineering Seminar Series  
GLRC 202, 3:00 pm

**Monday, October 30, 2017**
Prof. David Titley, Rear Admiral USN (ret), Penn State University  
*tbd*  
Earth, Planetary, and Space Sciences Institute (EPSSI) Seminar Series  
M&M U113, 4:00 pm  
Movie and Discussion: The Age of Consequences with Rear Admiral Titley (retired)  
Fisher Hall 135, 7:00 pm

**Monday, November 6, 2017**
Nicole Wehner, CEE  
title tbd  
Azad Heidari, CEE  
title tbd  
GLRC 202, 3:00 pm
**Monday, November 6, 2017**

PhD Defense: John Arnold, Industrial Heritage & Archaeology  
Advisor: Donald Lafreri 

Preserving the Vernacular Postindustrial Landscape: Big Data Geospatial Approaches to Heritage Management and Interpretation  
**Overview.**

Academic Offices 201 3:00 pm

**Wednesday, November 8, 2017**

Three Minute Thesis (3MT) Competition  
Michigan Tech Graduate Student Government, founded by the University of Queensland  
PowerPoint slide submission deadline: **Tuesday, October 31, 2017 by 11:59 pm**  
MUB Ballroom B 3:00 pm

**Thursday, November 9, 2017**

Team Skills: Learn about team work principles and develop and design principles, leadership and member skills.  
Grad Student and Post-doc Professional Development  
Register: [mtu.edu/gradschool/seminar](http://mtu.edu/gradschool/seminar)

**Tuesday, November 14, 2017**

Rolf Peterson (SFRES) and Candy Peterson  
Citizen Science – Moosewatch on Isle Royale  
Carnegie Museum Natural History Seminar Series  
Carnegie Museum in downtown Houghton 6:30 - 8:00 pm

**Wednesday, November 15, 2017**

Geospatial Research Forum on GIS Day  
Geospatial Research Facility  
Do you use GIS, Remote Sensing or other geospatial technologies in your research or teaching?  
For lunch and to sign up to present a three-minute Geospatial TechTalk, fill out this [form](http://mtu.edu/gradschool/seminar).  
**Please RSVP by November 3**  
**Contact:** Don Lafreri  
GLRC 202 12:00 - 1:30 pm

**Wednesday, November 29, 2017**

Climate Change Negotiations Game  
Hosts: UN5400 Climate Science and Policy, Instructor: Sarah Green, Chemistry  
Participants will play the roles of negotiators for various countries or regions and will explore how the world can reach the Paris goal of limiting global warming to 2°C above pre-industrial temperatures. See the video here for an overview. If a sufficient number of players register, roles can expand to include journalists, activists, lobbyists, and US states.  
GLRC 202 5:30-8:30 pm  
**RSVP**
4. New Funding Opportunities

New proposals can be submitted through the Great Lakes Research Center. Director Guy Meadows’ signature will be needed on the PI signature page of the transmittal sheet.

Reminder: The GACS pilot program offered by the Michigan Tech Graduate School has been extended to offer tuition support on proposals. There is no current end date set for this program.

**Michigan Space Grant Consortium (MSGC)**

- Fellowship Program (for graduate [$5000] and undergraduate [$2500] students; US Citizens)
- Research Seed Grants (one-to-one cost share required)
- Programs - Pre-College Education, Public Outreach, Teacher Training (one-to-one cost share required)

**Michigan Tech Internal Deadline:** Friday, November 17, 2017 by 5:00 pm

**MSGC Deadline:** December 4, 2017

Michigan Tech’s Pavlis Honors College coordinates all Michigan Tech proposals. Submission procedures have been posted on the Pavlis Honors College webpage. Download this flyer for detailed Michigan Tech MSGC requirements.

**NOTE:** Your application package will be reviewed the Pavlis Honors College and Sponsored Programs. Then it will be returned to you with the required support letter, and you will be responsible for uploading your applications into the online submission form, and submitting by December 4.

**Software Funding**

Michigan Tech IT

For software above and beyond the funding available through department budgets

Deadline: November 15, 2017

**Tribal Support for E-Enterprise for the Environment**

EPA-OCFO-OEE-17-01

Environmental Protection Agency

Deadline: November 24, 2017

**FY 2017 and FY 2018 Training and Technical Assistance to Improve Water Quality and Enable Small Public Water Systems to Provide Safe Drinking Water**

EPA-OW-OGWDW-17-01

Environmental Protection Agency

Deadline: December 4, 2017

**FY18 ENVIRONMENTAL WORKFORCE DEVELOPMENT AND JOB TRAINING (EWDJT) GRANTS**

EPA-OLEM-OBLR-17-10

Environmental Protection Agency

Deadline: December 15, 2017
Coastal Zone Management Program FY19
Michigan DEQ
Deadline: December 15, 2017

EPA’s 2018 SBIR Phase I solicitation is anticipated to open in October 2017

5. Courses for Spring 2018 -

BL 5025 The Scientific Profession
2 Credits - CRN 14130; T 11:05 - 12:45; ChemSci Bldg, Room 0215
This 2-credit class will be discussion-based, covering the practice of sciences for graduate students, including how to plan a research project, tips for preparing grants, conference presentations, publications, navigating the job market, and consideration of personal and social issues (e.g., diversity and bias, time management and work-life balance, etc.). It also fulfills the advanced RCR requirement for graduate students. More details can be found on the attached flier.

Although this course is offered through Biological Sciences, the topics covered are not specific to the field and I find that it works the best when students from other departments also participate. In the past the class had included students from many programs across campus, including SFRES, Chemistry and Chem Eng, Civil Environ Eng, Biomed Eng, Geol Eng + Sci, Mechanical and Electrical Eng, Humanities and Cognitive and Learning Sci. We typically have a mix of new and more established students, of traditional and non-traditional students, of US and international students, and of MS and PhD students.

Contact: Amy Marcarelli, Department of Biological Sciences, ammarcar@mtu.edu

BL 4465 Biological Oceanography
3 credits - Lecture: MWF 11:05 - 11:55; ChemSci Bldg, Room 0215
The ocean is the majority of Earth and the largest biome on the planet. Processes that occur in the
ocean are highly dynamic and central to regulating the planet’s biogeochemistry and climate
which influences the resources and ecosystem services provided to humans. This course is an
introduction to biological oceanography and will provide an overview of the factors governing
productivity, population dynamics and distribution of organisms in major ecosystems of the
ocean, with some coverage of topics related to earth sciences. The course covers ecological
themes such as trophic level interactions, nutrient cycling, ecology of plankton, invertebrates,
fish, mammal and bird resources. Additional topics include basic water chemistry and light in
oceans, climate variability and effects, and human influences on marine ecosystems.

Contact: Dr. Jill Olin, Great Lakes Research Center, jaolin@mtu.edu, GLRC 110

BL 4070 Environmental Toxicology
3 credits - Lecture: MWF 9:05 - 9:55; ChemSci Bldg, Room 104A
Prerequisites: BL1010, BL1020 or BL1040, CH1150 & CH1160
This course will provide an introduction to basic principles of toxicology and cover the history
and scope of the field; study a wide range of pollutants from legacy PCB’s, DDT and mercury to
emerging pollutants including pharmaceuticals and personal care products. Additional topics
include consequences of pollutant release and exposure on human and environmental health and
concepts such as bioconcentration, bioaccumulation and biomagnification, metabolism and
elimination of toxicants, mechanisms of toxic action; carcinogenesis; as well as human and
ecological risk assessment.

Contact: Dr. Gord Paterson, Department of Biological Sciences, gpaterso@mtu.edu, GLRC
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BL 4450 Limnology will be offered again in Spring 2018
3 credits - CRN 15042 + 15043
Lecture: MW 10:05 - 10:55; Lab R 12:05 - 2:55
Limnology is the interdisciplinary study of biological, physical, and chemical processes of
freshwater systems. This course is designed for advanced undergraduate and graduate students in
Biology, Forestry, Wildlife, Civil and Environmental Engineering and other environmental
disciplines seeking a deep understanding of how lakes work, and approaches for studying them.

Contact: Amy Marcarelli, Department of Biological Sciences, ammarcar@mtu.edu

6. Request Contribution numbers for GLRC Publications
Please email Carol Asiala (glrcadmin-l@mtu.edu) when you are preparing publications. We are
continuing to follow in the time-honored tradition of many Institutes by recognizing Contribution
Numbers in papers that we publish in the peer-reviewed literature. You are welcome to
participate. All you need to do is -

1. Contact Carol Asiala/Beth Hoy (glrcadmin-l@mtu.edu) to request a Contribution Number.
   Please provide as much citation info as possible - author(s), title, journal/book, etc.
2. Add to your acknowledgements section, "This is Contribution No. _ of the Great Lakes Research Center at Michigan Tech."

3. Get back to Carol when your paper is in print and give her the volume and page numbers.

Your participation is welcomed for this effort to enhance the visibility of the GLRC.

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7. Reports and Action Plans

**Federal Science Partners Periodic Update**
October 12, 2017

**Great Lakes Connections**
International Joint Commission newsletter
October 2017

**Video: NOAA in the Great Lakes**
This short video highlights NOAA’s freshwater mission and work in the Great Lakes region. It provides an overview of key programs and partners involved in achieving NOAA’s mission of Science, Service and Stewardship for the largest freshwater system on Earth.
Posted: October 6, 2017
*The video was produced by Mort Crim Communications, Inc (http://mccicorp.com).*

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8. Conferences & Webinars

**OneNOAA Science Seminars Series**
Currently scheduled webinars: October 2017 - March 2018

**October 25-27, 2017**
**Michigan Aquatic Restoration Conference**
Boyne Falls, MI

**Wednesday, October 25, 2017**
**Dr. Hongsheng Bi, University of Maryland**

*Seeing the invisible in coastal waters: imaging systems for ecological monitor and forecasts*
Great Lakes Seminar Series Webinar
NOAA-GLERL 1:30 pm
*Remote participation is available via webinar. To participate remotely, please register at: https://attendee.gotowebinar.com/register/520920407257382146. Once registered, you will receive a confirmation email containing information about joining the webinar.*

**Friday, November 3, 2017**
**17th Annual Great Lakes Water Conference**
The Trump and Trudeau Administrations on Water
University of Toledo College of Law

**November 7 – 9, 2017**
*Training Workshop: Using In-Situ Water Quality Sensors - Lagrangian and Eulerian Applications*
CUAHSI and the University of Florida
Gainesville, FL

**November 8 – 9, 2017**
*13th Annual MiCorps Conference & Training*
Kettunen Center
Kettunen Center - Tustin, MI
Registration Deadline: November 1, 2017

**November 7-10, 2017**
*State of Lake Michigan (SOLM) Conference*, and
Annual meeting of the Great Lakes Beach Association
Green Bay, WI
Registration closes Oct. 23

**November 13-14, 2017**
*Fall 2017 NSF Virtual Grants Conference*

**February 15-16, 2018**
*2nd International Conference on Climate Change*
Colombo, Sri Lanka
Abstract Deadline: November 23, 2017

**February 20-22, 2018**
*23rd Annual Wetland Science Conference*
Wisconsin Wetlands Association
Oconomowoc, Wisconsin
- **Call for Symposia.** SUBMISSION DEADLINE: Sept. 29, 2017.
- **Call for Presentations & Posters** – to be issued September 2017.
  SUBMISSION DEADLINE: Nov. 15, 2017
- **Student Scholarships** – APPLICATION DEADLINE: Jan. 12, 2018
  Note: we will also be holding a student presentation competition with cash prizes!
- **Registration** – to open December 2017. EARLY BIRD DEADLINE: Jan. 19, 2018

**June 18-21, 2018**
*9th International Charr Symposium*
Duluth, Minnesota
Call for papers will be sent in Sept-Oct 2017
9. Open RFPs of ongoing interest

**Dear Colleague Letter: NSF Accepting Proposals Related to Hurricane Harvey**
NSF 17-128

**2017 National Fish Habitat Action Plan**
F17AS00016
Department of the Interior, Fish and Wildlife Service
Deadline: Applications are accepted on a rolling basis

**2017 Outreach Program Request for Proposals (RFP) for NWS/Office of Water Prediction/National Water Center (NWC) Cooperative and Partners Projects**
Sponsor: COMET® Outreach Program
- **NWC Cooperative Projects:** COMET anticipates awarding two-four competitively reviewed, 1-2-year projects, each with a budget maximum of $40,000. The deadline for submission of a preliminary synopsis is **October 2, 2017**, with the final proposal due **December 15, 2017**. For more information, please see [NWC Cooperative Projects RFP](#) and the guidelines for NWC Cooperative Project [proposal submissions](#).
- **NWC Partners Projects:** COMET is currently accepting 1-year NWC Partners proposals (budgets limited to $15,000). Proposals will be reviewed as received, and approved submissions will be funded until program resources are expended. For more information, please see [NWC RFP Details](#). It is anticipated that up to six projects will be awarded. For details on these projects, see [NWC Partners Proposals](#).

**United States - Israel Binational Science Foundation**
NSF-BSF Joint Funding Program
Deadlines are dependent on program: October - January

**Fulbright Arctic Initiative**
Consortium for Ocean Leadership
Deadline: October 16, 2017 (international applicants); October 30, 2017 (US applicants)

**TAT Disaster Grant Funding FY18**
Technical Assistance and Training (TATDISASTERFY18)
Department of Agriculture, Utilities Programs
Deadline: October 18, 2017

**Strategic Environmental Research and Development Program (SERDP)**
DoD’s Environmental Research Programs
Deadline: October 19, 2017

**Second Century Stewardship 2018 Research Fellowship**
National Park Service, American Association for the Advancement of Science, and Schoodic Institute
Deadline: October 23, 2017
Shenandoah National Park Trust Research Fellowship Program
Shenandoah National Park
Deadline: October 31, 2017

FY 2018 Marine Fisheries Initiative (MARFIN)
NOAA-NMFS-SE-2018-2005326
Department of Commerce, NOAA
Deadline: October 31, 2017

FY 2018 Marine Debris Removal
NOAA-NOS-ORR-2018-2005335
Department of Commerce, NOAA
Deadline: November 1, 2017

Research Associateship Programs
EPA/Faculty Fellowship Program, National Academies of Sciences, Engineering, and Medicine
Open to Senior applicants, U.S. citizens and permanent residents
Deadline: November 1, 2017
Incorporating Autonomous Underwater Gliders into an Intensive Observational Campaign on Lake Superior
Mechanistic Modeling for Population-Level Chemical Risk Assessment
Impacts of Anthropogenic Nitrogen Inputs on Ecosystem Services
Improving Life Cycle Assessment of Drought Resilience
Sustainability of Urban Social-Ecological Systems
Tools for Watershed and Water Quality Management
Estimating the Effects of Environmental Contaminants on Avian Populations
Economic Incentives for Stormwater Management, Environmental Control, and Climate Change Resilience
Quantifying Wetland to Watershed Connectivity
Interpreting the Conditions of the Nation's Freshwater, Wetland and Coastal Resources

Fiscal Year 2018 NOAA Gulf of Mexico Bay-Watershed Education and Training (B-WET) Program
NOAA-NMFS-SE-2018-2005331
Department of Commerce, NOAA
Deadline: November 3, 2017

USAID FISH RIGHT PROGRAM
RFA-492-17-000003
Agency for International Development, Philippines USAID-Manila
Deadline: November 15, 2017
**Young Faculty Award (YFA)**
Solicitation Number: DARPA-RA-17-01
Agency: Other Defense Agencies
Office: Defense Advanced Research Projects Agency
Deadline: December 4, 2017

**Innovative Solutions for Fish Passage at Hydropower Dams**
DE-FOA-0001662
Department of Energy, Golden Field Office
Deadline: December 7, 2017

**FY18 Nancy Foster Scholarship Program**
NOAA-NOS-ONMS-2018-2005346
Department of Commerce, NOAA
Deadline: December 8, 2017

**FY2018 Marine Debris Prevention**
NOAA-NOS-ORR-2018-2005333
Department of Commerce, NOAA
Deadline: December 16, 2017

**TAT Grant Program FY18**
Technical Assistance and Training (TATFY18)
Department of Agriculture, Utilities Programs
Deadline: January 2, 2018

**Solid Waste Management Grant Program**
SWMFY2018
Department of Agriculture, Utilities Programs
Deadline: January 2, 2018

**Yukon River Salmon Research and Management Assistance FY2018**
F17AS00303
Department of the Interior, Fish and Wildlife Service
Deadline: January 5, 2017

**Interpreting the Conditions of the Nation's Freshwater, Wetland and Coastal Resources**
US EPA
Research Associateship Programs, Fellowship Office, Policy and Global Affairs
Deadlines: February 1 ; May 1 ; August 1 ; November 1

**MI DEQ Nonpoint Source Implementation RFP (FY2018)**
**2018 Draft Schedule for Implementation Grants**
2/17/17: Watershed Plans must be submitted for Approval
6/12/17: Draft RFP information Released
7/19/17: RFP Released
7/19/17: Watershed Plans must be 319 Approved
7/25/17: Webinar – RFPs, Eligibility, Priorities, and NOI form
8/16/17: Notice of Intent Letters due
8/30/17: Invitations for Full Proposals sent via e-mail
9/12/17: Webinar – Priorities, Project and application tips
10/13/17: Proposals due
Proposal Review
Projects Awarded Early Summer 2018

**MI DEQ Nonpoint Source RFP schedule (FY2018)**

**2018 Draft Schedule for Planning Grants**
6/12/17: Draft RFP information Released
7/19/17: RFP Released
7/25/17: NPS Webinar
9/11/17: Proposals due
Proposal Review
Projects Awarded Mid-January 2018 -OR- after Federal FY18 Budget Approval

**Fox River Natural Resource Damage Assessment**
F17AS00186
Department of the Interior, Fish and Wildlife Service
Deadline: December 31, 2017

**FY18 Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science and Technology**
N00014-18-S-B001
Department of Defense, Office of Naval Research
Deadline: September 28, 2018

**FY 2018 – 2020 - Broad Agency Announcement (BAA) Announcement Type: Initial**
NOAA-NFA-NFAPO-2018-2005418
Department of Commerce, NOAA
Deadline: September 30, 2020

### NSF Announcements:

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<td>next solicitation anticipated in Fall 2017</td>
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<td>17-512</td>
<td>Division of Environmental Biology (core programs) (DEB)</td>
<td>Pre-Proposal: Jan. 23, 2018</td>
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<td>Full Proposal: Aug 2, 2018</td>
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<td>17-513</td>
<td>Long Term Research in Environmental Biology (LTREB)</td>
<td>Pre-Proposal: Jan. 23, 2018</td>
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<td>Full Proposal: Aug 2, 2018</td>
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<td>17-543</td>
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<td>next deadline not set yet</td>
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<td>July 18, 2018: BIO, CISE, EHR</td>
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<td>July 19, 2018: ENG</td>
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<td>July 20, 2018: GEO, MPS, SBE</td>
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<td>14-559</td>
<td>Opportunities for Promoting Understanding through Synthesis (OPUS)</td>
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<td>PD 98-1650</td>
<td>Biological Oceanography</td>
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<td>PD 98-1610</td>
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<td>PD 98-1670</td>
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<td>Geography and Spatial Sciences Program</td>
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<td>Environmental Sustainability</td>
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<td>PD 17-1417</td>
<td>Chemical and Biological Separations</td>
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<td>PD-17-1440</td>
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<td>PD 09-6882</td>
<td>Environmental Chemical Sciences (ECS)</td>
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<td>13-589</td>
<td>Oceanographic Facilities and Equipment Support</td>
<td>November 15, 2017</td>
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<td>15-536</td>
<td>Research Experiences for Teachers (RET) in Engineering and Computer Science</td>
<td>October 10, 2017</td>
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<td><strong>Ship Operations</strong></td>
<td>November 14, 2017</td>
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<td>Integrated Earth Systems (IES)</td>
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<td>14-601</td>
<td>Dynamics of Coupled Natural and Human Systems (CNH)</td>
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<td>16-506</td>
<td>Improvements in Facilities, Communications, and Equipment at Biological Field</td>
<td>December 8, 2017</td>
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<td>15-568</td>
<td>Earth Sciences Postdoctoral Fellowships (EAR-PF)</td>
<td>January 9, 2018</td>
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<td>15-504</td>
<td>Major Research Instrumentation Program (MRI)</td>
<td>January 10, 2018</td>
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<td>National Robotics Initiative (NRI)</td>
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<td>PD 98-1680</td>
<td>Ocean Technology and Interdisciplinary Coordination</td>
<td>January 11, 2018</td>
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<td>17-593</td>
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<td>February 15, 2018</td>
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<td>17-527</td>
<td>NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)</td>
<td>March 2, 2018</td>
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<td>15-558</td>
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<td>March 28, 2018</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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<tr>
<td>16-595</td>
<td>Arctic Research Opportunities</td>
<td>Accepted Anytime</td>
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**NASA ROSES 2017**

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<th>APPENDIX</th>
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<th>NOI/Step 1 DUE DATE [2]</th>
<th>PROPOSAL DUE DATE</th>
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<tr>
<td>A.1</td>
<td>Earth Science Research Program Overview</td>
<td>N/A</td>
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A.8  Supporting UN Sustainable Development Goals 14 and 15 in the Context of Climate Variability and Change  TBD  TBD
A.9  ECOSTRESS Science Team  TBD  TBD
A.24  DSCOVR Science Team  TBD  TBD
A.29  Rapid Response and Novel Research in Earth Science  N/A  Rolling submissions through 3/29/2018
A.39  Earth Science Applications: Health and Air Quality  09/01/2017  11/17/2017
A.40  Earth Science Applications: Disaster Risk Reduction and Resilience  TBD  TBD
A.42  Advancing Collaborative Connections for Earth System Science  TBD  TBD
E.2  Topical Workshops, Symposia, and Conferences  N/A  Rolling submissions through 03/29/2018

10. 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 GLRC:
If you plan to complete the certificate, please email Carol Asiala (mtcws@mtu.edu)
- If you are not already on the glrc-student-community-l 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 Water and Society colloquium course.

Links to certificate degree schedule:
Grad School:

11. Student Research Grants (December 1) and Travel Grants (October 27)

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 1, 2017    March 2, 2018    August 10, 2018

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.mtu.edu/greatlakes/about/documents/strategic-plan.pdf).

**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 2 weeks in advance of planned travel.

Applications for **Travel and Research** grants are online at: http://www.mtu.edu/greatlakes/about/documents/glrc-travel-grant-app.pdf

Student advisors must be a faculty member of the GLRC (CWS Faculty) or the students must be supported on a GLRC-affiliated research grant.

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

12. **Colloquium Course – UN5100 – next offered: Spring 2018**

**Water & Society Colloquium Course**

Spring 2017 Topic: “**Holistic Health Assessment for a Waterborne Contaminant from Multiple Perspectives**”

**Course Number:** UN5100, CRN 13023, 1 credit

**Time/Location:** Tuesdays 3:35-4:25 in Dow 875 (Confirmed)

**Course Organizer:** Noel Urban (nurban@mtu.edu)

Each week, participants will read a journal paper or scientific report in preparation of discussion sessions on Tuesdays. Select films from the Green Film series (held Thursday evenings) will be used in lieu of the paper/Tuesday discussions. Students not registered for the course and faculty are encouraged to participate.

Discussion sessions will be led by a group of students and faculty. This group will prepare a few questions or comments the week preceding the discussion and send these to the class as a way to begin focusing the discussion. The group will begin the discussion session with a 10-minute summary of the major issues covered by the preceding week’s reading and repeat the discussion questions.
This course (or SS 5325) is required for the CWS Graduate Certificate in Sustainable Water Resources Systems.

13. Seminar Speaker Support Program
Great Lakes Research Center members can apply for assistance in bringing seminar speakers to Michigan Tech. Lecture topics should be of interest to the GLRC, and the visit should correspond with GLRC goals. The Seminar Speaker Request form should be emailed to Carol Asiala at glrcadmin@mtu.edu.

14. Job Opportunities

Postdoctoral Position in Watershed Modelling
The Ohio State University
Posted: Oct 13, 2017

Postdoctoral Position in Coastal Ecosystem-Based Management
University of Maryland Center for Environmental Science (UMCES)
Application review begins: December 1, 2017
The University of Maryland Center for Environmental Science (UMCES) is seeking a post-doctoral Assistant Research Scientist to work on a funded 2-year project in Ecosystem-Based Management (EBM). This unique position, coordinating with a multidisciplinary team of research leaders in EBM involving oceanographers, fisheries scientists, social scientist and science policy experts, provides an opportunity to work at the intersection of science and policy on fundamentally challenging ecosystem questions. The successful candidate will interact with researchers, planners and policy makers in several regions of the US to help identify and address the significant information gaps that limit implementation of an ecosystem approach. The position will involve literature research, workshop development and stakeholder surveys to create implementation strategies for enabling EBM in regional coastal ecosystems. The appointee will have opportunities to collaborate with scientists across UMCES (www.umces.edu). A Ph.D. in Marine Science, Environmental Policy or a related field is preferred. Salary will be commensurate with experience. Full university health and retirement benefits are available.

Review of applications will begin on December 1, 2017. Applications should include CV, copies of up to 3 publications, statement of research interests, one-page summary of Ph.D. thesis, names/addresses of four references.

For further information contact Mike Roman at postdoc-roman@umces.edu. Applications will be reviewed until position is filled.

UMCES is an AA/EOE institution. Individuals with disabilities, veterans, women, and minorities are encouraged to apply.

Research Associateship Programs
EPA/Faculty Fellowship Program, National Academies of Sciences, Engineering, and Medicine
Open to Senior applicants, U.S. citizens and permanent residents
Deadline: November 1, 2017

Incorporating Autonomous Underwater Gliders into an Intensive Observational Campaign on Lake Superior

Mechanistic Modeling for Population-Level Chemical Risk Assessment
Impacts of Anthropogenic Nitrogen Inputs on Ecosystem Services
Improving Life Cycle Assessment of Drought Resilience
Sustainability of Urban Social-Ecological Systems
Tools for Watershed and Water Quality Management
Estimating the Effects of Environmental Contaminants on Avian Populations
Economic Incentives for Stormwater Management, Environmental Control, and Climate Change Resilience
Quantifying Wetland to Watershed Connectivity
Interpreting the Conditions of the Nation's Freshwater, Wetland and Coastal Resources

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)

15. Student Opportunities

FY18 Nancy Foster Scholarship Program
NOAA-NOS-ONMS-2018-2005346
Department of Commerce, NOAA
Deadline: December 8, 2017

Anchor QEA Scholarship
Scholarship amount: $500 - $6000
Majors in the following areas:
  ● Fisheries
  ● Environmental Sciences
  ● Planning/Land Use
  ● Landscape Architecture
  ● Coastal, Geotechnical, Hydraulic, or Environmental Engineering (with an aquatic/waterfront emphasis)
Applications due: Friday, November 3, 2017
Second Century Stewardship 2018 Research Fellowship
National Park Service, American Association for the Advancement of Science, and Schoodic Institute
Deadline: October 23, 2017

Graduate Research & Training Scholarship Program (GRTSP)
NOAA
Applications accepted twice per year

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