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.

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. 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

2. On-Campus Seminars

Friday, October 13, 2017
D80 Conference, documentary film: Poverty Inc.
Fisher Hall 135 5:30
followed by a facilitated discussion

Saturday, October 14
Cathy Leslie, Executive Director of Engineering Without Borders - USA
D80 Conference Keynote Lecture
Forestry G002 11:15
Link to conference website: D80 - Prosperity by Design

Monday, October 16, 2017
Amanda Giang, Postdoctoral Associate
Institute for Data, Systems and Society, Massachusetts Institute of Technology
Science to support toxics governance: tracking mercury from policy to impacts
Environmental Engineering Seminar Series
GLRC 202 3:00 pm

Monday, October 16, 2017
Dr. Mike Pavolonis, NOAA/NESDIS
Next Generation Meteorological Satellites: Capabilities and Quantitative Applications
Earth, Planetary, and Space Sciences Institute (EPSSI) Seminar Series
M&M U113 4:00 pm

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
tbd
Earth, Planetary, and Space Sciences Institute (EPSSI) Seminar Series
M&M U113 4:00 pm

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

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

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
3. 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 will be extended to offer tuition support on proposals submitted through October 31, 2017.

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

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. The internal Michigan Tech deadline is expected to be in Mid November before Thanksgiving Break. Submission procedures have been posted on the Pavlis Honors College webpage. Download this flyer for detailed Michigan Tech MSGC requirements.

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
Software Funding
Michigan Tech IT
For software above and beyond the funding available through department budgets
Deadline: November 15, 2017

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

Doctoral Finishing Fellowships (Spring 2018)
Michigan Tech Graduate School
Deadline: 4:00 pm on October 18, 2017

Century II Campaign Endowed Equipment Fund (C2E2)
The Office of the Vice President for Research is requesting Century II Campaign Endowed Equipment Fund proposals (C2E2). The program provides funds to purchase equipment that will have a broad, campus-wide impact and will improve the lives of faculty, staff and students.
Deadline: October 19, 2017 by 4:00 p.m.

4. Courses for Spring 2018 -

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; ChemSi 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 112

**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

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5. **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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6. **Reports and Action Plans**

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

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

**The Compass**
The Conference of Great Lakes and St. Lawrence Governors and Premiers newsletter
September 2017
7. Conferences & Webinars

October 11, 2017
CUAHSI's Fall 2017 Cyberseminar series:
Towards a Global Integrated Hydrology Platform: Perspectives and Advances in Large-scale Modeling
All talks take place at 12:00 p.m. ET:
  - Evaluating groundwater surface water interactions across the Continental U.S. using an integrated hydrologic model
    Laura Condon, Syracuse University

Registration is free! You must register for the series in order to attend. To register, click here. Cyberseminars will be recorded and posted online for later viewing in our archives at: https://www.cuahsi.org/education/cyberseminars/archives/

October 11-12, 2017
Great Lakes Observing System Annual Meeting
NOAA Great Lakes Environmental Research Lab (GLERL)
Ann Arbor, MI

October 17-19, 2017
13th Annual Great Lakes Restoration Conference
Buffalo, New York

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 7 – 9, 2017
13th Annual MiCorps Conference & Training
Kettunen Center
14901 4H Drive - Tustin, MI

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

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 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

8. 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

**Fullbright 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

**FY18 Marine Debris Removal**

NOAA-NOS-ORR-2018-2005335

Department of Commerce, NOAA

Deadline: November 1, 2017
**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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<th>Proposal Deadline</th>
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<tr>
<th>Code</th>
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<td>16-503</td>
<td>National Science Foundation Research Traineeship Program (NRT)</td>
<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 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 Full Proposal: Aug 2, 2018</td>
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<td>17-543</td>
<td>Antarctic Research</td>
<td>next deadline not set yet</td>
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<td>17-537</td>
<td>Faculty Early Career Development Program (CAREER)</td>
<td>July 18, 2018: BIO, CISE, EHR July 19, 2018: ENG July 20, 2018: GEO, MPS, SBE</td>
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<td>14-559</td>
<td>Opportunities for Promoting Understanding through Synthesis (OPUS)</td>
<td>August 1, 2018</td>
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<td>15-506</td>
<td>Science, Technology, and Society (STS)</td>
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<td>15-577</td>
<td>Collections in Support of Biological Research (CSBR)</td>
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<td>PD 98-1650</td>
<td>Biological Oceanography</td>
<td>February 15, 2018 August 15, 2018</td>
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<td>PD 98-1610</td>
<td>Physical Oceanography</td>
<td>February 15, 2018 August 15, 2018</td>
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<td>PD 98-1670</td>
<td>Chemical Oceanography</td>
<td>February 15, 2018 August 15, 2018</td>
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<td>PD 98-1620</td>
<td>Marine Geology &amp; Geophysics</td>
<td>Proposals Accepted Anytime</td>
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<td>PD 17-7643</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>
<td>Environmental Engineering</td>
<td>October 20, 2017</td>
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<td>PD 09-6882</td>
<td>Environmental Chemical Sciences (ECS)</td>
<td>October 31, 2017</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>Ship Operations</td>
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<td>Oceanographic Technical Services</td>
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<td>Oceanographic Instrumentation</td>
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<td>Shipboard Scientific Support Equipment</td>
<td>Accepted Anytime</td>
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<td>Ship Acquisition and Upgrade &amp; Other Facility Activities</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>Limited Submission – Internal Deadline: August 29</td>
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<tr>
<td>15-600</td>
<td>Integrated Earth Systems (IES)</td>
<td>November 14, 2017</td>
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<td>14-601</td>
<td>Dynamics of Coupled Natural and Human Systems (CNH)</td>
<td>November 21, 2017</td>
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<td>16-506</td>
<td>Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML)</td>
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<td>15-568</td>
<td>Earth Sciences Postdoctoral Fellowships (EAR-PE)</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 October 25, 2017</td>
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<td>Limited Submission – Internal Deadline:</td>
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<td>16-517</td>
<td>National Robotics Initiative (NRI)</td>
<td>January 11, 2018</td>
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<td>PD 98-1680</td>
<td>Ocean Technology and Interdisciplinary Coordination</td>
<td>February 15, 2018</td>
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<td>17-593</td>
<td>Long-Term Ecological Research (LTER) - renewal proposals only</td>
<td>March 2, 2018</td>
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<td>17-527</td>
<td>NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)</td>
<td>March 28, 2018</td>
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<td>15-558</td>
<td>Hydrologic Sciences (HS)</td>
<td>Accepted Anytime</td>
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<td>APPENDIX</td>
<td>PROGRAM</td>
<td>NOI/Step 1 Due Date</td>
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<td>A.1</td>
<td>Earth Science Research Program Overview</td>
<td>N/A</td>
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<td>A.8</td>
<td>Supporting UN Sustainable Development Goals 14 and 15 in the Context of Climate Variability and Change</td>
<td>TBD</td>
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<td>A.9</td>
<td>ECOSTRESS Science Team</td>
<td>TBD</td>
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<td>A.14</td>
<td>Ocean Vector Winds Science Team</td>
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<td>A.17</td>
<td>IceBridge Research</td>
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<td>A.19</td>
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<td>A.24</td>
<td>DSCOVR Science Team</td>
<td>TBD</td>
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<td>A.29</td>
<td>Rapid Response and Novel Research in Earth Science</td>
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<td>A.34</td>
<td>Earth System Science Pathfinder (ESSP) Venture-class Science Investigations: Earth Venture Suborbital-3</td>
<td>Comments due by Oct 31, 2017</td>
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<td>A.39</td>
<td>Earth Science Applications: Health and Air Quality</td>
<td>09/01/2017</td>
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<td>A.40</td>
<td>Earth Science Applications: Disaster Risk Reduction and Resilience</td>
<td>TBD</td>
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<td>A.42</td>
<td>Advancing Collaborative Connections for Earth System Science</td>
<td>TBD</td>
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<tr>
<td>E.2</td>
<td>Topical Workshops, Symposia, and Conferences</td>
<td>N/A</td>
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</table>

9. 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:  

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**10. 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.

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Each award can be up to $750. Awards can also be used to support undergraduate research in formal class settings (e.g. Enterprise, Senior Design, Pavlis, senior thesis, capstone classes etc.). The research should support the Center's mission ([http://www.mtu.edu/greatlakes/about/documents/strategic-plan.pdf](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:  

Student advisors must be a faculty member of the GLRC ([CWS Faculty](http://www.mtu.edu/greatlakes/about/documents/glrc-travel-grant-app.pdf)) 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;

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**11. 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](mailto: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.

12. 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.

13. Job Opportunities

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.
**Iron Mountain Middle/High School Science Teacher**

We are currently looking for an individual interested in teaching the following classes for the current school year, 2017-18.

1 section of MS Science  
1 section of HS Environmental Science  
3 sections of HS Chemistry  
1 section of HS Advanced Chemistry

We are looking to fill this position in the very near future.

Thank you,

--  
Mark Herman  
Middle/High School Principal  
Iron Mountain Schools  
(906) 282-2710  
hermanm@imschools.org

**Assistant Director, Illinois-Indiana Sea Grant**

Purdue University, West Lafayette, IN, USA  
Please apply by October 9, 2017

**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](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)

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**14. 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