Michigan Tech Water Newsletter - January 12, 2018
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.

SAVE THE DATE:  WORLD WATER DAY - March 27-28

Highlights
IAGLR - Call for Abstracts due: January 19, 2018
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New Funding Opportunities
Request Contribution numbers for GLRC Publications
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Conferences & Webinars
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Student Research Grants (March 2) and Travel Grants (January 26)
Colloquium Course – UN5100 – Spring 2018
Seminar Speaker Support Program
Job Opportunities
Student Opportunities

1. SAVE THE DATE:  WORLD WATER DAY - March 27-28

Michigan Tech will celebrate the 2018 World Water Day during the last week of March with events related to the United Nations theme, “Nature-based Solutions for Water.” Dr. Greg Kleinheinz, Ph.D., R.A., Viessmann Chair of Sustainable Technology & Professor of Environmental Engineering Technology at the University of Wisconsin Oshkosh, will be our guest speaker on Tuesday, March 27. Dr. Kleinheinz received his PhD at Michigan Tech in Biological Sciences, and has served as a past president of the Great Lakes Beach Association. His research interests include:

- Industrial Treatment Technologies
- Water and Wastewater Issues
- Biological Treatment of Air Emissions
- Construction Issues and Indoor Air Quality
- Environmental Public Health
- Microbial Indicators of Water Quality
- Microbial Pathogens in Recreational/Drinking Waters

World Water Day Poster Competition
Graduate and undergraduate students of all majors are encouraged to participate in the annual poster session. Cash prizes are awarded for two categories: 1) Original research posters presenting thesis work related to any aspect of water, and 2) Coursework/informational posters presenting literature-based research assigned as coursework, or of interest to the students. 

Poster Registration Form
Other events in the planning stages include a panel discussion about "Nature-based Solutions for Water", a related Green Film, and the art show, “Water is Another Matter.”

Visit the Great Lakes Research Center news blog for a developing schedule of World Water Day events. Questions and ideas for World Water Day can be directed to the World Water Day committee at glrcadmin-l@mtu.edu.

2. Highlights

Nina Mahmoudian (MEEM/GLRC) been selected by Michigan Tech and donors Don and Mary Wacker to be the first holder of the Lou and Herbert Wacker Associate Professor in Autonomous Mobile Systems. This is an endowed professorship by Don and Mary Wacker through their generous cash gift of $1,000,000. Don Wacker is a 1959 BSME graduate from Michigan Tech. He and Mary chose to name the endowment in honor of his parents, Lou and Herbert Wacker.

3. IAGLR - Call for Abstracts due: January 19, 2018

International Association for Great Lakes Research (IAGLR)
Conference Theme: Great Science for Tomorrow’s Solutions
Conference Dates: June 18-22, 2018 in Toronto
Abstract Deadline: Friday, January 19, 2018

4. On-Campus Seminars

Tuesday, January 16, 2018
Mark Kulie, GMES
Community Discussion on Snow: Citizen Science
Satellites, Radars, & Rulers: How Do We Measure Snow on Global to Local Scales
Carnegie Museum, Houghton 7:00 pm

Thursday, January 18, 2018
Green Film: This Changes Everything: Capitalism vs. The Climate
Presents powerful portraits of communities on the front lines, from Montana’s Powder River Basin to the Alberta Tar Sands, from South India to Beijing and beyond. Interwoven with these stories is author Nina Klein’s narration, connecting the carbon in the air with the economic system that put it there. Klein builds to her most exciting idea: that we can seize the crisis of climate change to transform our economic system into something radically better. (90 min.)
Discussion Facilitator: Dr. Angie Carter, MTU Dept. of Social Sciences.
G002 Hesterberg Hall, Forestry 7:00-8:30 pm
enjoy coffee, dessert, and facilitated discussion, $3 suggested donation
Thursday, January 25, 2018
Dr. Andrew Bramburger, Research Associate
Natural Resources Research Institute, University of Minnesota Duluth

Little Things Show Big Changes in Big Lakes: What Algae Tell Us about a Century of Change in the Great Lakes
Biological Sciences Seminar
EERC 100 3:00 pm

5. 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.

Research Excellence Fund Proposals
Proposals are being solicited for the Research Excellence Fund (REF) program, an internal award of the Office of the Vice President for Research.

Budget deadline: no later than 4 p.m. Thursday, March 1
Proposal deadline: no later than 4 p.m. Thursday, March 8

If you are interested in serving on an REF proposal review committee, please contact Natasha Chopp (nichopp@mtu.edu)

Portage Health Foundation Mid-Career
Proposals are being solicited for the Portage Health Foundation Mid-Career (PHF-MC) program, which is designed to support tenured faculty with an active NIH grant and/or consistent history of external funding with NIH or a related agency.

Budget deadline: no later than 4 p.m. Thursday, March 1
Proposal deadline: no later than 4 p.m. Thursday, March 8

Faculty Fellow
Applications are being solicited for the Faculty Fellow Program. The Faculty Fellow Program is sponsored by the Office of the Vice President for Research.

The Program expands familiarity with sponsored program administration and strategic planning among the faculty, develops leadership capacity among the faculty and improves sponsored programs administration and strategic planning through faculty input.

Application deadline: no later than 4 p.m. Thursday, Feb. 15

15th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet
EPA-G2018-P3-Q1 – Air Quality
EPA-G2018-P3-Q2 – Safe and Sustainable Water Resources
EPA-G2018-P3-Q3 – Sustainable and Healthy Communities
EPA-G2018-P3-Q4 – Chemical Safety
US EPA
Deadline: February 7, 2018
Webinar Registration: January 11, 2018 ; 2:00 - 3:00 pm EST

**NOAA Great Lakes Habitat Restoration Project Grants under the U.S. Great Lakes Restoration Initiative**
NOAA-NMFS-HCPO-2018-2005487
Department of Commerce, NOAA
Deadline: March 12, 2018

**Environmental Education Local Grants Program for Region 5 -- Solicitation Notice for 2018**
EPA-EE-18-05
Environmental Protection Agency
Deadline: March 15, 2018

**Ocean Observatories Initiative Facility Board (OOIFB) Administrative Support Office**
18-527
National Science Foundation
Deadline: March 27, 2018

**Michigan’s Volunteer River, Stream, and Creek Cleanup Program**
Michigan Department of Environmental Quality (MDEQ) and Great Lakes Commission
Grants to local units of government to help clean Michigan waterways. Local units of government may partner with nonprofit organizations or other volunteer groups to carry out the work. A 25 percent minimum local match is required.
Deadline: February 20, 2018

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.
7. Reports and Action Plans

**Federal Science Partners Periodic Update**
January 12, 2018

**Great Lakes Connections**
International Joint Commission newsletter
January 2018

**Michigan State of the Great Lakes 2017**
Michigan Office of the Great Lakes

8. Conferences & Webinars

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

**January 19, 2018 - Call for Abstract Deadline**
**5th National Working Waterfronts and Waterways Symposium**
Conference: May 14-17, 2018 in Grand Rapids, MI

**January 23-25, 2018**
**NCSE 2018: The Science, Business, and Education of Sustainable Infrastructure**
National Council for Science and the Environment
Washington, DC

**February 7 - 28, 2018**
CUAHSI Winter 2018 Cyberseminar Series
[Register here](#), all seminars are at 1:00 pm ET

**February 7:** *Developing and Utilizing Stormwater’s “Big” Dataset*
Randy Dymond, Virginia Tech

**February 14:** *Enabling “Smarter” Urban Watersheds*
Branko Kerkez, University of Michigan

**February 21:** *Urban Hydrology and the National Center for Infrastructure Modeling and Management (NCIMM)*
Ben Hodges, University of Texas

**February 28:** *Watershed-scale Effectiveness of Green Infrastructure*
Aditi Bhaskar, Colorado State University
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

Tuesday, March 6, 2018
Great Lakes Conference
The Great Lakes: Focusing on the Present, Planning for the Future
Institute of Water Research, Michigan State University
Kellogg Center, East Lansing, MI

March 6-7, and June 13, 2018
Certified Natural Shoreline Professional (NSP) Training and Certificate Program
2018 Michigan Natural Shoreline Partnership (MNSP)
East Lansing, MI, and Maple Lake in Paw Paw, MI

March 8-9, 2018
American Water Resources Association - Wisconsin Section 2018 Annual
Appleton, WI

May 16-17, 2018
2018 AOC Annual Conference
United States Environmental Protection Agency and the Wisconsin Department of Natural Resources
Sheboygan, WI

June 18-21, 2018
9th International Charr Symposium
Duluth, Minnesota
IAGLR 2018
International Association for Great Lakes Research (IAGLR)
Conference Theme: Great Science for Tomorrow’s Solutions
Conference Dates: June 18-22, 2018 in Toronto
9. Open RFPs of ongoing interest

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

**Early Career Research Program**
DE-FOA-0001761
Department of Energy - Office of Science
Pre-Application Deadline: January 25, 2018
Deadline: April 4, 2018

The Office of Science of the Department of Energy is pleased to announce the request for applications for the fiscal year 2018 Early Career Research Program. The funding opportunity for researchers in universities and DOE national laboratories, now in its ninth year, supports the development of individual research programs of outstanding scientists early in their careers and stimulates research careers in the disciplines supported by the DOE Office of Science. Opportunities exist in the following 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).

Issue Date: 12/18/2017
Pre-Application Due Date: 01/25/2018 at 5 PM Eastern Time (required)
Encourage/Discourage Date: 02/27/2018 at 5 PM Eastern Time
Application Due Date: 04/04/2018 at 5 PM Eastern Time
Website for Early Career Research Program: [https://science.energy.gov/early-career/](https://science.energy.gov/early-career/)

**Fishery Research and Sea Lamprey Research**
Great Lakes Fishery Commission
Pre-proposal Deadline: January 15, 2018

**Chesapeake Bay Program Office Fiscal Year 2018 Request for Proposals for Support for both the Small Watershed and the Innovative and Nutrient Sediment Reduction Grant Programs**
EPA-R3-CBP-18-01
Environmental Protection Agency
Deadline: January 15, 2018

**FY2018 Coastal and Ocean Modeling Testbed Project**
NOAA-NOS-IOOS-2018-2005452
Department of Commerce, NOAA
Deadline: January 19, 2018
FY 2018 NATIONAL ENVIRONMENTAL INFORMATION EXCHANGE NETWORK GRANT PROGRAM
EPA-OEI-18-01
Environmental Protection Agency
Note: Michigan Tech is designated as an Instrumentality of the State of Michigan and if therefore eligible to lead a proposal
Deadline; January 26, 2018

Fiscal Year 2018 NMFS-Sea Grant Fellowships in Marine Resource Economics
NOAA-OAR-SG-2018-2005450
Department of Commerce, NOAA
Deadline: January 26, 2017

Fiscal Year 2018 NMFS-Sea Grant Fellowships in Population and Ecosystem Dynamics
NOAA-OAR-SG-2018-2005442
Oceanic and Atmospheric Research (OAR), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce
Deadline: January 26, 2018

Coastal Hypoxia Research Program (CHRP)
NOAA-NOS-NCCOS-2018-2005327
Department of Commerce, NOAA
Deadline: January 30, 2018

FY 2017 Continuation of Solicitation for the Office of Science Financial Assistance Program
DE-FOA-0001664
US Department of Energy
Deadline: January 31, 2018

National Estuarine Research Reserve System (NERRS) Land Acquisition and Construction Program for Fiscal Year 2018
NOAA-NOS-OCM-2018-2005340
Department of Commerce, NOAA
Deadline: February 1, 2018

Round 3 of Research to Operations Initiative: NGGPS and HFIP
NOAA-NWS-NWSPO-2018-2005325
Department of Commerce, NOAA
Deadline: February 7, 2018

Round 3 of Research to Operations Initiative: NOAA Testbeds
NOAA-NWS-NWSPO-2018-2005317
Department of Commerce, NOAA
Deadline: February 7, 2018
2018 Regional Ecosystem Prediction Program (REPP): Understanding Coral Ecosystem Connectivity in the western Gulf of Mexico
NOAA-NOS-NCCOS-2018-2005334
Department of Commerce, NOAA
Deadline: February 9, 2018

Summer Undergraduate Research Fellowship (SURF) Program
2018-NIST-SURF-01
Department of Commerce, National Institute of Standards and Technology
Deadline: February 12, 2018

Competition for a Cooperative Institute for Modeling the Earth System
NOAA-OAR-CIPO-2018-2005422
Department of Commerce, NOAA
Deadline: February 13, 2018

Identification and application of acidification thresholds in coastal ecosystems
NOAA-NOS-NCCOS-2018-2005323
Department of Commerce, NOAA
Deadline: February 13, 2018

Environmental Justice Collaborative Problem-Solving (EJCPS) Cooperative Agreement
EPA-OP-OEJ-18-01
Environmental Protection Agency
Deadline: February 16, 2018

2018 Ecosystem Health and Sustainable Fish Populations: Habitat Protection and Restoration
Great Lakes Fishery Trust
Proposal Deadline: February 23, 2018

Atmospheric System Research
DE-FOA-0001845
Department of Energy - Office of Science
Pre-Application Deadline: December 20, 2017
Deadline: February 28, 2018

Environmental System Science
DE-FOA-0001855
U. S. Department of Energy, Office of Science
Biological and Environmental Research
Pre-Application Deadline: December 20, 2017
Deadline: March 1, 2018

Climate and Societal Interactions
NOAA-OAR-CPO-2018-2005445
Department of Commerce, NOAA
Deadline: March 16, 2018
Earth System Model Development and Analysis  
DE-FOA-0001862  
Department of Energy - Office of Science  
Pre-application Deadline: January 16, 2018  
Application Deadline: March 19, 2018

NOAA National Sea Grant College Program 2018 Ocean, Coastal and Great Lakes  
National Aquaculture Initiative  
NOAA-OAR-SG-2018-2005489  
Department of Commerce, NOAA  
Deadline: March 30, 2018

Environmental System Science  
DE-FOA-0001855  
Department of Energy - Office of Science  
Deadline: March 31, 2018

Environmental Literacy Grants: Supporting the education of K-12 students and the public for community resilience  
NOAA-SEC-OED-2018-2005455  
Department of Commerce, NOAA  
Deadline: April 6, 2018

Fiscal Year 2019 National Sea Grant College Program Dean John A. Knauss Marine Policy Fellowship  
NOAA-OAR-SG-2019-2005447  
Department of Commerce, NOAA  
Deadline: April 6, 2018

Great Lakes Restoration Initiative, Partners for Fish and Wildlife 2018  
F18AS00051  
Department of the Interior, Fish and Wildlife Service  
Deadline: September 20, 2018

FY18 Funding Opportunity Announcement (FOA) for the Office of Naval Research (ONR) Navy and Marine Corps Science, Technology, Engineering & Mathematics (STEM), Education and Workforce Program  
N00014-18-S-F003  
Department of Defense - Office of Naval Research  
Deadline: September 28, 2018

Coastal Program -- Great Lakes Restoration Initiative  
F18AS00025  
Department of the Interior, Fish and Wildlife Service  
Deadline: September 30, 2018
Coastal
F18AS00013
Department of the Interior, Fish and Wildlife Service
Deadline: September 30, 2018

Partners for Fish and Wildlife
F18AS00011
Department of the Interior, Fish and Wildlife Service
Deadline: September 30, 2018

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

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
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<thead>
<tr>
<th>Program Nbr</th>
<th>Title</th>
<th>Proposal Deadline</th>
</tr>
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</table>
| 16-503     | National Science Foundation Research Traineeship Program (NRT)                                                                                                                                       | Letter of Intent: December 6, 2017  
Proposal: February 6, 2018                                                       |
| 17-512     | Division of Environmental Biology (core programs) (DEB)                                                                                                                                              | Pre-Proposal: Jan. 23, 2018  
Full Proposal: Aug 2, 2018                                                        |
| 17-513     | Long Term Research in Environmental Biology (LTREB)                                                                                                                                                 | Pre-Proposal: Jan. 23, 2018  
Full Proposal: Aug 2, 2018                                                        |
| 17-543     | Antarctic Research                                                                                                                                                                                  | next deadline not set yet                                                        |
| 18-510     | Research Coordination Networks in Undergraduate Biology Education (RCN-UBE)                                                                                                                         | January 30, 2018                                                                |
| 17-537     | Faculty Early Career Development Program (CAREER)                                                                                                                                                   | July 18, 2018: BIO, CISE, EHR  
July 19, 2018: ENG  
July 20, 2018: GEO, MPS, SBE                                                       |
| 14-559     | Opportunities for Promoting Understanding through Synthesis (OPUS)                                                                                                                                  | August 1, 2018                                                                     |
| 15-506     | Science, Technology, and Society (STS)                                                                                                                                                               | February 2, 2018  
August 3, 2018                                                                     |
| 15-577     | Collections in Support of Biological Research (CSBR)                                                                                                                                                 | August 13, 2018                                                                |
| PD 98-1650 | Biological Oceanography                                                                                                                                                                              | February 15, 2018  
August 15, 2018                                                                     |
| PD 98-1610 | Physical Oceanography                                                                                                                                                                                 | February 15, 2018  
August 15, 2018                                                                     |
| PD 98-1670 | Chemical Oceanography                                                                                                                                                                                 | February 15, 2018  
August 15, 2018                                                                     |
| PD 98-1620 | Marine Geology & Geophysics                                                                                                                                                                          | Proposals Accepted Anytime                                                     |
| 17-566     | Geography and Spatial Sciences Program                                                                                                                                                               | September 6, 2018                                                             |
| PD 17-7643 | Environmental Sustainability                                                                                                                                                                           | October 20, 2017                                                              |
| PD 17-1417 | Chemical and Biological Separations                                                                                                                                                                 | October 20, 2017                                                              |
| PD-17-1440 | Environmental Engineering                                                                                                                                                                             | October 20, 2017                                                              |
| PD 09-6882 | Environmental Chemical Sciences (ECS)                                                                                                                                                                 | October 31, 2017                                                              |
| 13-589     | Oceanographic Facilities and Equipment Support  
Ship Operations  
Oceanographic Technical Services  
Oceanographic Instrumentation  
Shipboard Scientific Support Equipment  
Ship Acquisition and Upgrade & Other Facility Activities | November 15, 2017  
November 15, 2017  
December 15, 2017  
December 15, 2017  
Accepted Anytime                                                                  |
| 15-536     | Research Experiences for Teachers (RET) in Engineering and Computer Science  
Limited Submission – Internal Deadline: August 29                                 | October 10, 2017                                                              |
| 15-600     | Integrated Earth Systems (IES)                                                                                                                                                                       | November 14, 2017                                                             |
| 18-503     | Dynamics of Coupled Natural and Human Systems (CNH)                                                                                                                                                  | January 23, 2018                                                               |
| 16-506     | Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML)                         | December 8, 2017                                                              |
| 15-568     | Earth Sciences Postdoctoral Fellowships (EAR-PF)                                                                                                                                                     | January 9, 2018                                                               |
| 15-504     | Major Research Instrumentation Program (MRI)                                                                                                                                                         | January 10, 2018                                                              |
Limited Submission – Internal Deadline: October 25, 2017

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<thead>
<tr>
<th>Program</th>
<th>NOI/Step 1 Due Date</th>
<th>Proposal Due Date</th>
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<tbody>
<tr>
<td>16-517</td>
<td>National Robotics Initiative (NRI)</td>
<td>January 11, 2018</td>
</tr>
<tr>
<td>PD 98-1680</td>
<td>Ocean Technology and Interdisciplinary Coordination</td>
<td>February 15, 2018</td>
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<tr>
<td>17-593</td>
<td>Long-Term Ecological Research (LTER) - renewal proposals only</td>
<td>March 2, 2018</td>
</tr>
<tr>
<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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<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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<tr>
<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**

<table>
<thead>
<tr>
<th>APPENDIX</th>
<th>PROGRAM</th>
<th>NOI/Step 1 Due Date</th>
<th>Proposal Due Date</th>
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</thead>
<tbody>
<tr>
<td>A.1</td>
<td>Earth Science Research Program Overview</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<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>
<td>TBD</td>
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<tr>
<td>A.24</td>
<td>DSCOVR Science Team</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>A.29</td>
<td>Rapid Response and Novel Research in Earth Science</td>
<td>N/A</td>
<td>Rolling submissions through 3/29/2018</td>
</tr>
<tr>
<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>
<td>TBD</td>
</tr>
<tr>
<td>A.40</td>
<td>Earth Science Applications: Disaster Risk Reduction and Resilience</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>A.42</td>
<td>Advancing Collaborative Connections for Earth System Science</td>
<td>12/1/2017</td>
<td>1/31/2018</td>
</tr>
<tr>
<td>E.2</td>
<td>Topical Workshops, Symposia, and Conferences</td>
<td>N/A</td>
<td>Rolling submissions through 03/29/2018</td>
</tr>
</tbody>
</table>

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 (March 2) and Travel Grants (January 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.

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>December 1, 2017</td>
<td>March 2, 2018</td>
</tr>
<tr>
<td>August 10, 2018</td>
<td>(research proposals will be</td>
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<tr>
<td></td>
<td>accepted through Monday</td>
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<td></td>
<td>morning, Dec 4)</td>
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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.).

Applications and Requirements for Research Grants are online at: 
http://www.mtu.edu/greatlakes/about/documents/glrc-studentresearchgrant.pdf

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 grants are online at: 

Student advisors must be a faculty member of the GLRC 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 – Spring 2018

Water & Society Colloquium Course
Course Number: UN5100, CRN 13023, 1 credit
Time/Location: Tuesdays 3:35-4:25 in Dow 875
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

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

**CASE Workshop: Catalyzing Advocacy for Science and Engineering**  
March 18-21, 2018, AAAS Headquarters, Washington, DC

Catalyzing Advocacy for Science and Engineering, or CASE, is an entry-level program organized to educate graduate students in STEM who are interested in learning about the role of science in policy-making and the federal policy-making process and to empower them with ways to become a voice for basic research. The application is open to AAAS member who are current graduate students studying science, technology, engineering, or math at a US university, who have limited experience or knowledge of science policy and advocacy.

This three-and-a-half day program will take place in Washington, DC, March 18-21, 2018, and AAAS will sponsor up to four students to participate alongside students who are supported by one of our 2018 sponsoring institutions. At the workshop, participants will gain knowledge on the structure and organization of Congress and the federal budget and appropriations process, learn tools for effective science communication and civic engagement, and participate in interactive seminars about policy-making and communication. On Wednesday, March 21, students will have the option to conduct meetings with their elected Members of Congress or congressional staff on Capitol Hill.

AAAS will cover all travel costs, including transportation and lodging, as well as the registration fee for the selected students.

The deadline for application is **January 26, 2018** at 11:59 PM EST. For additional details about the CASE Workshop, please go to [http://www.aaas.org/case](http://www.aaas.org/case).

Any additional questions may be directed to Joanne Carney (jcarney@aaas.org).

**National Marine Fisheries Services (NMFS) Fellowships**  
Deadline: January 26, 2018

**Great Lakes Commission – Sea Grant Fellowship**  
Deadline: February 16, 2018

**New International Joint Commission Fellowship**  
Deadline: February 23, 2018

**John A. Knauss Marine Policy Fellowship**  
Michigan Sea Grant  
Deadline: February 23, 2018

**Coastal Management Fellowship**  
NOAA  
Applications due: January 19, 2018
NASA Student Airborne Research Program (SARP) 2018
Application Deadline: January 31, 2018

Summer Internships
National Great Rivers Research and Education Center
Project summaries, requirements, and location for each project can be downloaded here
Deadline: January 23, 2018

Fiscal Year 2018 NMFS-Sea Grant Fellowships in Marine Resource Economics
NOAA-OAR-SG-2018-2005450
Department of Commerce, NOAA
Deadline: January 26, 2018

15th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet
EPA-G2018-P3-Q1 – Air Quality
EPA-G2018-P3-Q2 – Safe and Sustainable Water Resources
EPA-G2018-P3-Q3 – Sustainable and Healthy Communities
EPA-G2018-P3-Q4 – Chemical Safety
US EPA
Deadline: February 7, 2018
Check the P3 Website for a planned January 2018 webinar about the P3 RFA and application process.

2018 Great Lakes Summer Fellows Program
The Cooperative Institute for Great Lakes Research (CIGLR)
Deadline: February 18, 2018

Summer 2018 Internships
NOAA Chesapeake Bay Office
Undergrad interns: Field technician, Oceanographic instrumentation support
Undergrad or Grad Intern: Hydrodynamic and Hydrologic modeling

Fiscal Year 2019 National Sea Grant College Program Dean John A. Knauss Marine Policy Fellowship
NOAA-OAR-SG-2019-2005447
Department of Commerce, NOAA
Deadline: April 6, 2018

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