Michigan Tech Water Newsletter - November 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.

Highlights
Michigan Tech Research Forum Nominations Open
On-Campus/Local Seminars
New Funding Opportunities
Course Announcements
The Scientific Profession (BL5025)
World Water Day 2019: Save the Date - March 21-26
Theme: Leaving No One Behind - Human Rights: Near and Far
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 7) and Travel Grants (November 30)
Colloquium Course – UN5100 – next offered: Spring 2019
Seminar Speaker Support Program
Job Opportunities
Student Opportunities

1. Highlights

Pengfei Xue (CEE/GLRC) is the principal investigator on a project that has received a $130,118 research and development contract from the University of Michigan-Cooperative Institute for Great Lakes Research. The title of the project is "The Cooperative Institute for Great Lakes Research: Long-Term Data Assimilative, Temperature and Currents Database for Lake Erie." This is a one-year project.

Valoree Gagnon (GLRC) is the principal investigator on a project that has received a $30,489 instruction grant from the Native American Heritage Fund. Jerry Jondreau (SFRES) is the Co-PI on the project "Ge-izhi-mawanji-idiyang Dazihindamang Gidakiiminaan ('The Way in Which we Meet to Talk about our Earth')." This is a one-year project.

IAGLR Call for Sessions now open
Deadline: November 21, 2018
IAGLR Conference will be June 10-14, 2019 at The College at Brockport, State University of New York.

Michigan Tech Research Forum Nominations Open
Distinguished Lecturers should be professionally accomplished and recognized as a leader in their field; they are selected for their ability to increase the knowledge of our community by
connecting their research with societal and community concerns. TechTalks are rapid-paced samplings of the work of researchers across campus. Nominate a colleague or yourself. Deadline: November 30, 2018

2. On-Campus/Local Seminars

Monday, November 12, 2018
Dr. Arthur J. Sedlacek, Brookhaven National Laboratory
*Improving our Understanding of Light Absorbing Aerosols from Biomass Burning*
EPSSI seminar
M&M U113 4:00 pm

Tuesday, November 13, 2018
Joe Kuehl, Assistant Professor, University of Delaware, Department of Mechanical Engineering
*A Dynamical Systems Approach to the Predictability of Geophysical Flows*
This Oceanography/Limnology faculty candidate seminar will be used in lieu of the Environmental Engineering Seminar
MEEM 402 2:00 pm
- 1 p.m. Monday in Dow 642 – Kuehl will present his vision for future collaborative research at Michigan Tech
- 2 p.m. Tuesday in R.L Smith (MEEM) 402 – This will be a public research-focused lecture entitled “*A dynamical systems approach to the predictability of geophysical flows.*”

Tuesday, November 13, 2018
Finding Cerisoles and Inkerman
100 years ago this November, three French minesweepers left Thunder Bay headed across Lake Superior for France. Only one made the journey across Lake Superior. The Cerisoles and Inkerman, and their 79 crew members disappeared somewhere north of the Keweenaw.

Join the GLRC for a 100th Anniversary Remembrance presentation and social. The event includes a presentation on the history of the French minesweepers, the physical attributes of Lake Superior that make finding Cerisoles and Inkerman so challenging, the political mystery surrounding their mission and disappearance, and recent and future efforts to locate the ships. A social with refreshments will follow. This event is open to the public.
Superior Ideas crowdfunding campaign:
https://www.superiorideas.org/projects/historical-shipwrecks
GLRC 202 5:30-7:00 pm

Wednesday, November 14, 2018
Ian Smith, Michigan Department of Environmental Quality (MDEQ)
*Michigan PFAS Action Response Team*
Perfluoroalkyl and polyfluoroalkyl substances (PFAS), also known as PFCs, have been classified by the US Environmental Protection Agency as an emerging contaminant on the national level. PFAS are a suite of chemicals historically used in thousands of applications throughout the industrial, food, and textile industries.
Launched in 2017, the Michigan PFAS Action Response Team (MPART) is the first multi-agency action team of its kind in the nation. Agencies representing health, environment and other branches of state government joined together to investigate sources and locations of PFAS contamination in the state, to take action to protect people's drinking water, and to keep the public informed as we learn more about this emerging contaminant.

**November 14-15, 2018**

Nicole Millette, postdoctoral fellow in the biology department at Woods Hole Oceanographic Institution

- 2 p.m. Wednesday in R.L. Smith (MEEM) 402 – This will be a public research-focused lecture, “Ecosystem level implications of planktonic interactions.”
- 11 a.m. Thursday in Chem. Sci. 102 – Millette will present her vision for future collaborative research at Michigan Tech.

You will be able to provide feedback online for all the candidates beginning Friday (Nov. 16). The committee will begin reviewing feedback Tuesday, November 27.

**Friday, November 16, 2018**

Masters Defense: Terrianna Bradley, Environmental Engineering

Advisor: Daisuke Minakata

Investigating Water and Energy Saving Technologies with Respect to Carbon Dioxide Emissions and Water Consumption

Dow 875 8:45 am

**Monday, November 19, 2018**

World Toilet Day

World Toilet Day is about taking action to ensure that everyone has a safe toilet by 2030.

**Wednesday, December 5, 2018**

Michigan Tech Geospatial Research Forum

Do you use GIS, remote sensing or other geospatial technologies in your research or teaching? Or perhaps want to?

Come for lunch, learn about how you can collaborate on geospatial focused proposals and contribute to a series of "TechTalks"-style presentations about current geospatial research across campus.

For lunch and to sign up to present a three-minute Geospatial TechTalk, fill out this form. RSVP by Wednesday, Nov. 28 so we have enough lunch for all guests.

Questions? Contact Don Lafreniere or Ryan Williams.

**Thursday, December 6, 2018**

Valoree Gagnon (GLRC)

Synopsis of Workshop: "Tuyuryaq: A Model for decolonizing learning on college campuses"

GLRC 202 4:00 - 5:30 pm
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.

**16th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet**
EPA-G2019-P3-Q1 – Air Quality
EPA-G2019-P3-Q2 – Safe and Sustainable Water Resources
EPA-G2019-P3-Q3 – Sustainable and Healthy Communities
EPA-G2019-P3-Q4 – Chemical Safety
EPA
Deadline: December 11, 2018

**FY 2018 Support of the National Estuary Program Coastal Watershed Grants**
EPA-OW-OWOW-18-04
Environmental Protection Agency
Deadline: December 20, 2018

**Great Lakes Fish and Wildlife Restoration Act**
F19AS00015
Department of the Interior, Fish and Wildlife Service
Pre-Proposal Deadline: January 7, 2019

**FY 2019 SMALL BUSINESS INNOVATION RESEARCH (SBIR) PROGRAM**
NOAA-OAR-OAR-TPO-2019-2005899
Department of Commerce, NOAA
Deadline: January 8, 2019

**Special Joint Request for Proposals: Michigan, Illinois-Indiana, and Wisconsin**
Sea Grant Regional RFP
Understanding and Communicating Coastal Hydrodynamics and Nearshore Sediment Transport Processes on Lake Michigan to Promote Resilient Coastal Communities
Deadline: January 11, 2019

**Fishery and Sea Lamprey Research Programs**
Great Lakes Fishery Commission
Pre-Proposal Deadline: January 15, 2019

**Research Coordination Networks in Undergraduate Biology Education (RCN-UBE)**
NSF (18-510)
Deadline: January 22, 2019
• 4:00 p.m. ET, 13 November 2018 (Tuesday). WebEx link [here](#).
Although links to the webinars are provided above, potential attendees are encouraged to register [here](#), so they can receive reminders (with links) and updates about the webinars.
2019 Summer Undergraduate Research Fellowships (SURFs)
Fellowship recipients will spend the summer on an individual research project under the guidance of a Michigan Tech faculty mentor. SURFs are open to all Tech undergraduates who have at least one semester remaining after the summer term. Awards are up to $4,000.
Deadline: January 25, 2019 by 4:00 pm

Workshop: Writing effective SURF proposals
Tuesday, Dec. 11 in Fisher 132 6:00 pm

Regional Ocean Acidification Observing Optimization Study (OOS-OA19)
NOAA-OAR-OAP-2019-2005791
Department of Commerce, NOAA
Deadline: March 4, 2019

Theme Leaders for the 2019 National Water Center Innovators Program Summer Institute
CUAHSI
Application Deadline: November 18, 2018
Institute dates: June 10-July 25, 2019

4. Course Announcements

The Scientific Profession (BL5025)
BL 5025, CRN 13759, Spring 2019, Meeting time T 11:05 – 12:45
Instructor: Amy Marcarelli (ammarcar@mtu.edu)
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 are also enrolled. 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.
5. **World Water Day 2019:** Save the Date - March 21-26

**Theme:** *Leaving No One Behind - Human Rights: Near and Far*

**Keynote Lecturer:** Monica Lewis-Patrick, We the People Detroit

**Thursday, March 21:** Green Film: Marathon for Justice

**Monday, March 25:** Poster Session, Welcome to Traditional Homelands by KBIC and Woodland Singers, Keynote Lecture, Reception

**Tuesday, March 26:** Panel Discussion, Art Reception, Closing Ceremony

The Poster Competition includes entries from graduate and undergraduate students in 2 categories. The Original Research posters include research and student thesis work on any aspect of water. The Coursework/Informational posters include presentation of coursework or literature based research. Faculty are encouraged assign posters in their Spring courses, if appropriate for the course.

Faculty may also want to consider assigning attendance at the World Water Day lecture and panel discussion and green film in their Spring courses if applicable.

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 Updates**

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

8. Conferences & Webinars

**OneNOAA Science Seminars Series**
Currently scheduled webinars: September 2018 - December 2018

**Thursday, November 15 - Abstract Deadline**

**Wetland Science Conference**

*Wetlands Yesterday, Today, and Tomorrow*
Wisconsin Wetlands Association
Conference Dates: February 19-21, 2019, Madison, WI
We offer **Student Scholarships**! The deadline for the scholarship application is January 11, 2019. We really want to encourage student participation. We offer discounted student registration rates as well as student scholarships. Priority for these scholarships is given to students who are giving oral presentations or posters at the conference. We will also be hosting a student presentation competition with cash prizes for the best presentations.

**Friday, November 16, 2018**

*Introduction to the National Water Center and the National Water Model in collaboration with the CUAHSI Summer Institute*
CUAHSI
Speakers: NCAR and National Water Center Staff
Registration is free! You must register for the series in order to attend. To register, [click here](#)

**Tuesday, November 20, 2018**

**Webinar:** brief overview of information and updates on work under the Nutrients Annex of the Great Lakes Water Quality Agreement to address excess phosphorus loads leading to toxic and nuisance algal blooms in Lake Erie.
led by: Annex Co-Leads Santina Wortman (U.S. Environmental Protection Agency) and Tricia Mitchell (Environment and Climate Change Canada),

co-hosted by: Nutrients Annex of the Great Lakes Water Quality Agreement and GLWQA Lakewide Management Annex’s Lake Erie Partnership Outreach and Engagement Subcommittee

Registration link: https://attendee.gotowebinar.com/register/1167749912898342403
Call-In # 866-299-3188
Conference Code # 8783921

Monday, November 26, 2018
Listening Session hosted by the National Oceanic and Atmospheric Administration (NOAA) NOAA is conducting a series of Listening Sessions across the United States to receive public input regarding the implementation of the Department of Commerce's 2018-2022 Strategic Plan (available here). One of the goals in the Strategic Plan is to Strengthen U.S. Economic and National Security by Reducing Extreme Weather Impacts. NOAA has a critical role in implementing this goal through the implementation of the Weather Research Forecasting and Innovation Act of 2017 which includes advancing science and technology innovation, improving weather research to operations, developing a community-based weather model, and advancing seasonal to subseasonal weather forecasts.

Dr. Neil Jacobs, assistant secretary of commerce for environmental observation and prediction and NOAA deputy administrator, will discuss the implementation of The Weather Act, including the development of a community-based weather model. His remarks will be followed by a period for public comments. This is an opportunity to ask questions and provide input on implementation of these and other NOAA and Department of Commerce priorities.

NOAA Listening Session
University of Wisconsin
Union South, Varsity Hall
1308 W. Dayton Street, Madison, WI 53715
Monday, November 26, 2018
Doors open at 2:00pm CST
Listening Session begins at 2:30pm CST
Listening Session ends at 4:00pm CST

Please indicate your interest in attending by completing the form via this link. If you are unable to complete the form, please identify the listening session you are attending and provide the following information: your name, email address, and affiliation to listen.sessions@noaa.gov.

Friday, November 30, 2018
The Summer Institute Research Experience: Highlights from Past CUAHSI National Water Center Summer Institute Research and 2019 Summer Institute Themes
CUAHSI
Speakers: Fred Ogden, NWC; Ehab Meselhe, The Water Institute of the Gulf
Registration is free! You must register for the series in order to attend. To register, click here

Tuesday, December 11, 2018
Chris Doyle, Director of Biology, Solitude Lake Management
**Monitoring and Detecting Hydrilla: Three Case Studies in New York and New Jersey**

Great Lakes Hydrilla Collaborative’s technical webinar series
To register, please send an email to hydrillacollaborative@ene.com
2:00 pm EST

**February 19-21, 2019**

Wetland Science Conference
Madison, WI
Call for Abstracts

**June 5-7, 2019**

LIVING BLUE: TRANSFORMING WATERFRONTS
Great Lakes and St. Lawrence Cities Initiative
2019 Annual Conference, Email jane.eagleton@glslcities.org
Sheboygan, WI

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9. Open RFPs of ongoing interest

**Competition for a Cooperative Institute for Research in the Atmosphere**

NOAA-OAR-CIPO-2019-2005602
Department of Commerce, NOAA
Deadline: November 14, 1028

**Cooperative Ecosystem Studies Unit, Great Lakes Northern Forests CESU**

G19AS00010
Department of the Interior, Geological Survey
Deadline: November 14, 2018

**IMPLEMENTATION OF THE COMPLIANCE/PREVENTION UNDERGROUND STORAGE TANK PROGRAM AND THE CLEANUP OF LEAKING UNDERGROUND STORAGE TANK PROGRAM**

EPA-OLEM-OUST-18-04
Environmental Protection Agency
Deadline: November 15, 2018

**Climate Program Office FY 2019**

NOAA-OAR-CPO-2019-2005530
Department of Commerce, NOAA
LOI Deadline: September 10, 2018
Proposal Deadline: November 20, 2018

**Virtual Consortium for Translational/Transdisciplinary Environmental Research (ViCTER) (R01 Clinical Trial Optional)**

RFA-ES-18-007
Department of Health and Human Services, National Institutes of Health
Deadline: December 1, 2018
National Estuarine Research Reserve System (NERRS) Collaborative Science Program 2019
NOAA-NOS-OCM-2019-2005778
Department of Commerce, NOAA
Deadline: December 3, 2018

Desalination and Water Purification Research Program for Fiscal Year 2019
BOR-DO-19-F001
Department of the Interior, Bureau of Reclamation
Deadline: December 13, 2018

NOAA Marine Debris Research Program
NOAA
NOAA-NOS-ORR-2019-2005817
Deadline: December 14, 2018

Coastal Zone Management (CZM) Program 2020
Michigan Department of Natural Resources, Office of the Great Lakes (OGL)
- Habitat
- Hazard Management
- Water Quality
- Public Access
- Community Development
Deadline: December 14, 2018

Collaborative Science, Technology, and Applied Research (CSTAR) Program
NOAA-NWS-NWSPO-2019-2005754
Department of Commerce, NOAA
Deadline: December 14, 2018

FY19 Dr Nancy Foster Scholarship Program
NOAA-NOS-ONMS-2019-2005832
Department of Commerce, NOAA
Deadline: December 17, 2018

CZM Projects of Special Merit Competition - FY2019
NOAA-NOS-OCM-2019-2005819
Department of Commerce, NOAA
Deadline: December 19, 2018
Review Eligibility Requirements

National Oceanographic Partnership Program ( NOPP)
N00014-18-S-B007
Department of Defense, Office of Naval Research
Deadline: December 21, 2018
**TAT Grant Program**  
TATFY19  
Department of Agriculture, Utilities Programs  
Deadline: December 31, 2018

**Solid Waste Management Grant Program**  
SWMFY2019  
Department of Agriculture, Utilities Programs  
Deadline: December 31, 2018

**2019 Ecological Effects of Sea Level Rise Program**  
NOAA-NOS-NCCOS-2019-2005813  
Department of Commerce, NOAA  
Deadline: January 16, 2019

**2020 Partners for Fisheries Monitoring Program**  
F19AS00022  
Department of the Interior, Fish and Wildlife Service  
Deadline: January 31, 2019

**National Competitive Harmful Algal Bloom Programs**  
NOAA-NOS-NCCOS-2019-2005810  
Department of Commerce, NOAA  
Deadline: February 4, 2019

**National Estuarine Research Reserve System (NERRS) Land Acquisition and Construction Program for Fiscal Year 2019**  
NOAA-NOS-OCM-2019-2005800  
Department of Commerce, NOAA  
Deadline: February 8, 2019  
Review Eligibility Requirements

**Commercial Fishing Occupational Safety Training Project Grants**  
RFA-OH-19-005  
Department of Health and Human Services  
Centers for Disease Control and Prevention - ERA  
Deadline: February 15, 2019

**FY2019 Office of Weather and Air Quality Research Programs**  
NOAA-OAR-OWAQ-2019-2005820  
Department of Commerce, NOAA  
Deadline: March 20, 2019

**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, shown here for FY2019 planning)

**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) shown here for FY2019 planning**

**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

**2018 ERDC Broad Agency Announcement**
US Army
Deadline: January 31, 2019

**Coastal**
F19AS00027
Department of the Interior, Fish and Wildlife Service
Deadline: September 30, 2019

**Partners for Fish and Wildlife**
F19AS00024
Department of the Interior, Fish and Wildlife Service
Deadline: September 30, 2019

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

**Army Research Office BAA for Basic and Applied Scientific Research**
US Army
Deadline: March 31, 2022
### NSF Announcements:

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<th>Program Nbr</th>
<th>Title</th>
<th>Proposal Deadline</th>
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<td>16-503</td>
<td>Limited Submission – Internal Deadline: National Science Foundation Research Traineeship Program (NRT)</td>
<td>October 15, 2018&lt;br&gt;LOI: December 6, 2018&lt;br&gt;Proposal: February 6, 2019</td>
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<td>17-573</td>
<td>Advancing Informal STEM Learning (AISL)</td>
<td>November 7, 2018</td>
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<td>17-584</td>
<td>Discovery Research PreK-12 (DRK-12)</td>
<td>November 14, 2018</td>
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<td>17-590</td>
<td>Improving Undergraduate Science Education: Education and Human Resources (IUSE:EHR)</td>
<td>December 11, 2018&lt;br&gt;(Development and Implementation)&lt;br&gt;Oct 1, 2018 - Sept 30, 2019&lt;br&gt;(Exploration and Design )</td>
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<tr>
<td>17-512</td>
<td>Division of Environmental Biology (core programs) (DEB)</td>
<td>Pre-Proposal: Jan. 23, 2018&lt;br&gt;Full Proposal: Aug 2, 2018</td>
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<tr>
<td>17-513</td>
<td>Long Term Research in Environmental Biology (LTREB)</td>
<td>Accepted Anytime</td>
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<td>18-510</td>
<td>Research Coordination Networks in Undergraduate Biology Education (RCN-UBE)</td>
<td>January 22, 2019</td>
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<td>17-537</td>
<td>Faculty Early Career Development Program (CAREER)</td>
<td>July 18, 2018: BIO, CISE, EHR&lt;br&gt;July 19, 2018: ENG&lt;br&gt;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>15-506</td>
<td>Science, Technology, and Society (STS)</td>
<td>February 2, 2018&lt;br&gt;August 3, 2018</td>
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<td>15-577</td>
<td>Collections in Support of Biological Research (CSBR)</td>
<td>August 13, 2018</td>
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<td>PD 98-1650</td>
<td>Biological Oceanography</td>
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<td>PD 98-1610</td>
<td>Physical Oceanography</td>
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<td>PD 98-1670</td>
<td>Chemical Oceanography</td>
<td>February 15, 2019&lt;br&gt;August 15, 2019</td>
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<td>17-566</td>
<td>Geography and Spatial Sciences Program</td>
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<td>PD 17-7643</td>
<td>Environmental Sustainability</td>
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<td>PD 17-1417</td>
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<td>PD-17-1440</td>
<td>Environmental Engineering</td>
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<td>PD 09-6882</td>
<td>Environmental Chemical Sciences (ECS)</td>
<td>October 31, 2018</td>
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<td>13-589</td>
<td>Oceanographic Facilities and Equipment Support</td>
<td>November 15, 2018&lt;br&gt;December 15, 2018&lt;br&gt;December 15, 2017&lt;br&gt;December 15, 2017&lt;br&gt;Accepted Anytime</td>
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<tr>
<td>15-536</td>
<td>Limited Submission – Internal Deadline: Research Experiences for Teachers (RET) in Engineering and Computer Science</td>
<td>August 8, 2018&lt;br&gt;September 19, 2018</td>
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<td>15-600</td>
<td>Integrated Earth Systems (IES)</td>
<td>November 14, 2018</td>
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<td>18-503</td>
<td>Dynamics of Coupled Natural and Human Systems (CNH)</td>
<td>next deadline not set</td>
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<tr>
<td>16-506</td>
<td>Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML)</td>
<td>December 14, 2018</td>
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<tr>
<td>Program</td>
<td>NOI/Step 1 DUE DATE [2]</td>
<td>Proposal DUE DATE</td>
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<tr>
<td>Earth Science Research Overview</td>
<td>N/A</td>
<td>N/A</td>
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<td>Land Cover Land Use Change</td>
<td>08/01/2018 (Step-1)</td>
<td>03/01/2019 (Step-2)</td>
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<td>ECOSTRESS Science Team</td>
<td>TBD</td>
<td>TBD</td>
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<td>Rapid Response and Novel Research in Earth Science</td>
<td>N/A</td>
<td>Rolling submissions through 03/29/2019</td>
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<td>SERVIR Applied Sciences Team</td>
<td>10/25/2018 (Step-1)</td>
<td>04/25/2019 (Step-2)</td>
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<tr>
<td>Advanced Information Systems Technology</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>Topical Workshops, Symposia, and Conferences</td>
<td>N/A</td>
<td>Rolling submissions through 03/29/2019</td>
</tr>
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</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 (glrcadmin-l@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.
- For questions about the certificate, please contact Cory McDonald or Carol Asiala (glrcadmin-l@mtu.edu)

Links to certificate degree schedule:
Grad School:

11. Student Research Grants (December 7) and Travel Grants (November 30)

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 7, 2018 March 1, 2019 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.).

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 – next offered: Spring 2019

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 $500 in 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

Habitat Restoration Engineer/Scientist  
ERT, Inc.  
This individual will work out of the NOAA Great Lakes Environmental Research Lab in Ann Arbor, MI. The engineer/scientist will have his or her own portfolio of restoration projects to support and will also provide expertise in the physical sciences and engineering to review feasibility studies, modeling studies, project design plans and related tasks for projects throughout the Great Lakes. An individual is sought with a degree in engineering or related field, knowledge of engineering practices and methods pertaining to habitat restoration, and a background in shoreline and river restoration, geomorphology, and/or hydrology/hydraulics. Please see the link below and share this announcement with other interested individuals. https://chc.tbe.taleo.net/chc01/ats/careers/requisition.jsp?org=ERT&cws=1&rid=2058  
Posted: November 9, 2018
Aquaculture marketing extension specialist
Illinois-Indiana Sea Grant
Posted: November 1, 2018

Post-doctoral Research Associate - Aquatic Ecology and Conservation
Department of Fisheries and Wildlife, Michigan State University
Posted: October 29, 2018

Climate Change Job Vacancies
International Institute for Sustainable Development (IISD) Community

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

16th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet
EPA-G2019-P3-Q1 – Air Quality
EPA-G2019-P3-Q2 – Safe and Sustainable Water Resources
EPA-G2019-P3-Q3 – Sustainable and Healthy Communities
EPA-G2019-P3-Q4 – Chemical Safety
EPA
Deadline: December 11, 2018

FY19 Dr Nancy Foster Scholarship Program
NOAA-NOS-ONMS-2019-2005832
Department of Commerce, NOAA
Deadline: December 17, 2018
2019 National Water Center Innovators Program Summer Institute  
CUAHSI  
Application Deadline: January 15, 2019

Research Experiences for Undergraduates  
Central Michigan University Institute for Great Lakes Research  
Deadline: February 1, 2019

Undergraduate and Graduate Research Fellowships (must be a US citizen)  
Michigan Space Grant Consortium  
Internal Michigan Tech Deadline: Noon on Wednesday, November 7, 2018  
Important: review and follow Michigan Tech Guidelines

IAGLR Scholarships  
International Association for Great Lakes Research  
- David M. Dolan Scholarship ($3,000)  
- Norman S. Baldwin Fishery Science Scholarship ($3,000)  
- IAGLR Scholarship ($2,000)  
Deadline: December 1, 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

Energy Accounting System Modeling of Urban Water Systems  
Deadline: November 1, 2018