Michigan Tech Water Newsletter - February 5, 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
On-Campus Seminars
New Funding Opportunities
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 (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 27-29

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

Link to all World Water Day Forms, Flyers, and Abstracts.
Consider attending a Poster Design Workshop at the Library. Select a date to register for a workshop:
2/26/2018, 5:00 -6:00 in Library 242
3/6/2018, 12:00 -1:00 in Library 242

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. On-Campus Seminars

Monday, February 5, 2018
Cory McDonald (CEE)
"Modeling historical nitrate loading to groundwater in Dane County, Wisconsin"
Environmental Engineering Graduate Seminar
GLRC 202 3:00 pm

Thursday, February 15, 2018
Dr. Sarah Green (Chem/GLRC)
Expanding Spheres: Atoms to Earth, Local to Global, Science to Society
Spring 2018 Distinguished Lecturer, Michigan Tech Research Forum
MUB Ballroom A 4:00 pm

Thursday, February 15, 2018
Latika Gupta, SBE
Borrowing, Bernanke and Beyond: The Whys, Whodunits & What’s- Nexts of the Great Recession
It's been over 10 years since the last recession started. What kind of crisis is coming up next?
It's been almost 9 years since it ended, but why does it feel like it's still not over?
What side-effects can we expect of policies that were enacted in the last 10 years?
See answers to these and other questions including:
What lead to the crisis?
Policy responses
Who was responsible?
Policies to avoid future crisis
What to expect next?
A decade later, what did we learn?
Economics Club Lecture
ME-EM 112 7:00 pm
**Thursday, February 15, 2018**

Green Film: *FREIGHTENED: The Real Price of Shipping Goods*

(2016) 90% of the goods we consume in the West are manufactured in far-off lands and brought to us by ship. The cargo shipping industry is a key player in the world economy and forms the basis of our modern civilization. Yet the functioning of this global business remain largely obscure to many, and its hidden costs affect us all. Taking us on a journey overseas and around the world, FREIGHTENED reveals an audacious investigation into world-wide freight shipping and its consequences. (90 min)

**Facilitator: Pasi Lautala, CEE**

Hesterberg Hall, Forestry G002  
7:00 - 8:30 pm

Refreshments provided by Michigan Tech Transportation Institute

Cost: Free; $3 suggested donation. Bring your own mug!

Cosponsored by Lake Superior Stewardship Initiative, Michigan Tech Great Lakes Research Center, Keweenaw Land Trust, Keweenaw Unitarian Universalist Fellowship, Sustainable Futures Initiative, and Michigan Tech Department of Social Sciences

**Thursday, March 1, 2018**

Amy Marcarelli, BIO

*What makes a CAREER? Integrating teaching and research to understand the yin and yang of aquatic N cycling*

Biological Sciences Seminar  
EERC 100  
3:00 pm

**Thursday, March 1, 2018**

Graduate Professional Development Program: Effective Negotiation Strategies

Develop and broaden negotiation skills for professional enhancement  
Admin 404  
3:00 - 5:00 pm

**Friday, March 2, 2018**

Art Exhibit: *Always Room for Rain*

Exhibit Dates: February 16 - March 31

Exhibit Reception: March 2, 5:30 - 6:30 in Rozsa Gallery A-Space

Artists: Raquel Alvizures (Guatemala) and Ross Chaney (Cherokee and Osage Nations / New Mexico)

Curated by: Lisa Gordillo

Partially sponsored/funded by the Visiting Women & Minority Lecturer/Scholar Series (VWMLSS) which is funded by a grant to the Office of Institutional Equity and Inclusion from the State of Michigan's King-Chavez-Parks Initiative.

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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.
**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

**NOAA Coastal Resilience Grants Program (FY 2018)**

NOAA-NMFS-HCPO-2018-2005502

[https://www.fisheries.noaa.gov/national/habitat-conservation/defending-our-coasts](https://www.fisheries.noaa.gov/national/habitat-conservation/defending-our-coasts)

Department of Commerce, NOAA

Pre-Proposal Deadline: March 7, 2018 (pre-proposal is mandatory)

Full Proposal Deadline: May 7, 2018

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**4. 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.

5. Reports and Action Plans

**Federal Science Partners Periodic Update**
February 2, 2018

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

**second report on polybrominated diphenyl ethers (PBDEs)**
New standards, public education and extended producer responsibility programs are key to protecting Great Lakes from PBDEs and other flame-retardant chemicals
IJC’s Great Lakes Water Quality Board
January 2018

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

6. Conferences & Webinars

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

**Certified Ecological Restoration Practitioner Program**
Society for Ecological Restoration is accepting applications for Certified Ecological Restoration Practitioners (CERPs) and Certified Ecological Restoration Practitioners-in-Training (CERPITs)
Apply through March 16, 2018

**Tuesday, February 13, 2018**
Webinar Briefing on IJC’s upcoming report, *Fertilizer Application Patterns and Trends and Their Implications for Water Quality in the Western Lake Erie Basin*
International Joint Commission of Canada and the United States
Register 11:30 am EST

**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
Lake Geneva, Wisconsin
- Registration – to open December 2017. EARLY BIRD DEADLINE: Jan. 19, 2018

Friday, March 2, 2018
A Matter of Balance: Managing Soil and Crop Nutrient Systems to Protect Water Quality
Soil and water Conservation Society, Michigan Chapter Seminar
Kellogg Hotel and Conference Center
East Lansing, Michigan

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 14-17, 2018
5th National Working Waterfronts and Waterways Symposium
Grand Rapids, MI

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

7. 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

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

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

**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

**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

**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  
[Recording of Feb 1 webinar](#)
Environmental Education Local Grants Program for Region 5 -- Solicitation Notice for 2018
EPA-EE-18-05
Environmental Protection Agency
Deadline: March 15, 2018

Third Coast Conversations: Dialogues about Water in Michigan
Michigan Humanities Council
Deadline: March 16, 2018
Award Amount: $5000, no cost share required
Eligible Applicants: The applicant organization must have 501(c)3 status. Individuals are not eligible. Sponsoring organizations are strongly encouraged to collaborate with other organizations on their proposed project.

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

NASA Education Fellowship Activity, 2018
NNH18ZHA003N
National Aeronautics and Space Administration
Deadline: March 20, 2018

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

FY 2018 Joint Technology Transfer Initiative
NOAA-OAR-OWAQ-2018-2005496
Department of Commerce, NOAA
Deadline: April 9, 2018

Operator Selection for Two Regional Class Research Vessels (RCRV 2 and RCRV 3)
18-534
National Science Foundation
Deadline: April 19, 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

NSF Announcements:

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<tr>
<th>Program Nbr</th>
<th>Title</th>
<th>Proposal Deadline</th>
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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  
| PD 98-1610 | Physical Oceanography                            | February 15, 2018  
| PD 98-1670 | Chemical Oceanography                             | February 15, 2018  
| PD 98-1620 | Marine Geology & Geophysics                      | Proposals Accepted Anytime |
| PD 98-1643 | Environmental Sustainability                     | September 6, 2018 |
| PD 98-1417 | Chemical and Biological Separations              | October 20, 2017 |
| PD 98-1440 | Environmental Engineering                        | October 20, 2017 |
| PD 98-6842 | Environmental Chemical Sciences (ECS)             | October 31, 2017 |
| PD 98-6844 | Marine Geology & Geophysics                      | Proposals Accepted Anytime |
| 15-533 | Oceanographic Facilities and Equipment Support    | November 15, 2017  
|         | Ship Operations                                   | November 15, 2017  
|         | Oceanographic Technical Services                  | December 15, 2017  
|         | Oceanographic Instrumentation                     | December 15, 2017  
|         | Shipboard Scientific Support Equipment            | Accepted Anytime  
|         | Ship Acquisition and Upgrade & Other Facility Activities | Accepted Anytime  
| 15-536 | Research Experiences for Teachers (RET) in Engineering and Computer Science | 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  
| 16-517 | National Robotics Initiative (NRI)                | January 11, 2018 |
| PD 98-1680 | Ocean Technology and Interdisciplinary Coordination | February 15, 2018  
| 17-593 | Long-Term Ecological Research (LTER) - renewal proposals only | March 2, 2018 |
| 17-527 | NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) | March 28, 2018 |
| 15-558 | Hydrologic Sciences (HS)                          | Accepted Anytime |
| PD-06-5740 | Climate and Large-Scale Dynamics                  | Accepted Anytime |
| 15-560 | Geomorphology and Land-use Dynamics (GLD)         | Accepted Anytime |
| 15-516 | Earth Sciences: Instrumentation and Facilities (EAR/IF) | Accepted Anytime |
**NASA ROSES 2017**

<table>
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<tr>
<th>APPENDIX</th>
<th>PROGRAM</th>
<th>NOI/Step 1 DUE DATE [2]</th>
<th>PROPOSAL DUE DATE</th>
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<tbody>
<tr>
<td>A.1</td>
<td>Earth Science Research Program Overview</td>
<td>N/A</td>
<td>N/A</td>
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<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>
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<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>
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<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>
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<tr>
<td>A.42</td>
<td>Advancing Collaborative Connections for Earth System Science</td>
<td>12/1/2017</td>
<td>1/31/2018</td>
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<tr>
<td>E.2</td>
<td>Topical Workshops, Symposia, and Conferences</td>
<td>N/A</td>
<td>Rolling submissions through 03/29/2018</td>
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8. **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:
9. Student Research Grants (March 2) and Travel Grants (February 23)

**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>
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<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>December 1, 2017</td>
<td>Grad &amp; Undergrad Research Awards</td>
</tr>
<tr>
<td>March 2, 2018</td>
<td>Grad &amp; Undergrad Research Awards</td>
</tr>
<tr>
<td>August 10, 2018</td>
<td>Grad &amp; Undergrad Research Awards</td>
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(research proposals will be accepted through Monday morning, Dec 4)

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:

- presenting a poster at World Water Day in March;
- assisting with preparations for World Water Day;
- assisting with GLRC-sponsored outreach activities;

10. 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.

11. 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.

12. Job Opportunities

**Coordinator of Freshwater Education**
Cranbrook Institute of Science
Posted: January 30, 2018

**Assistant Professor - Atmospheric Chemistry**
Rutgers University–New Brunswick, New Jersey
Review of applications begins January 31, 2018

**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)
13. Student Opportunities

**Student Grant Program**
Society for Ecological Restoration
Deadline: March 16, 2018

**NASA Education Fellowship Activity, 2018**
NNH18ZHA003N
National Aeronautics and Space Administration
Deadline: March 20, 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

**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

**Skyrocket your Green Idea**
Commission for Environmental Cooperation (CEC) Youth Innovation Challenge
Deadline: April 3, 2018; $5000 in seed funding
Montreal, 15 January 2018—Show us what you’ve got! [North American environmental ministers](#) are calling on youth to champion bold ideas for green growth to address the complex sustainability challenges we currently face. Visit [cec.ideascale.com](http://cec.ideascale.com) to submit your science, technology and business innovations and get the chance to [present](#).
your idea to North America’s top environmental officials, receive $5,000 in project seed funding, and meet with experts at the Commission for Environmental Cooperation (CEC).

“Innovation is the key to North American sustainable growth, enabling us to use our natural resources to grow our economies and quality of life while preserving the environment, ecosystems and human health. North American youth are creative and innovative and we are looking forward to their ideas on green growth,” said Scott Pruitt, Administrator of the US Environmental Protection Agency and CEC Council Chair.

The CEC Youth Innovation Challenge is open to residents of Canada, Mexico and the United States (and its territories) aged 18-30. Participants are encouraged to look beyond incremental solutions and propose bold ideas to leapfrog to solutions that address the complex sustainability challenges facing North America. Ideas will be evaluated based on four criteria: innovation, impact, feasibility/replicability and profitability. Students and young entrepreneurs are invited to propose ideas on a broad range of green growth topics.

The challenge opens 15 January 2018 and idea submissions are due by 3 April 2018.

This is your chance to make a difference! Start posting your ideas, or commenting and voting on those of others today! Ideas can be submitted in English, French or Spanish. For more information and guidelines, visit cec.ideасcale.com.

Make sure to tell us about your green idea on Facebook or Twitter using the #Youth4Innovation hashtag. Follow the CEC on Facebook at www.facebook.com/ceconnect or our Twitter @CECweb.

**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