

## Michigan Tech Water Newsletter

Please send water-related items to post in the weekly email to Carol Asiala at [glrcadmin-l@mtu.edu](mailto: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.

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## 1. Highlights

**Pengfei Xue (CEE/GLRC)** is the principal investigator on a project that has received a \$104,168 research and development grant from NASA. **Mark Kulie (GMES/GLRC)** is the Co-PI on the project, *"Evaluation and Advancing the Representation of Lake-Atmosphere Interactions and Resulting Heavy Lake-Effect Snowstorms across the Laurentian Great Lakes Basin Within the NASA-Unified Weather Research and Forecasting Model."*

This is the first year of a potential four-year project totaling \$327,927.

### [23rd Annual Lake Superior Photo Contest](#)

Lake Superior Magazine

Submission Deadline: October 16, 2017

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## 2. On-Campus Seminars

### **Monday, October 30**

**Retired Rear Admiral David Titley**

***Movie and Discussion: The Age of Consequences with Rear Admiral Titley (retired)***

Fisher Hall 135

7:30 pm

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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.

[NASA ROSES 2017](#) has been announced. The table of program elements with updated due dates will be kept current in the “**Open RFPs of ongoing interest**” section of this newsletter.

#### **Water Resources Review and Research**

**W9126G-17-2-977**

Department of Defense, Fort Worth District

Deadline: September 1, 2017

#### **FY 2018 Marine Fisheries Initiative (MARFIN)**

**NOAA-NMFS-SE-2018-2005326**

Department of Commerce, NOAA

Deadline: October 31, 2017

#### **FY18 Marine Debris Removal**

**NOAA-NOS-ORR-2018-2005335**

Department of Commerce, NOAA

Deadline: November 1, 2017

#### **Fiscal Year 2018 NOAA Gulf of Mexico Bay-Watershed Education and Training (B-WET) Program**

**NOAA-NMFS-SE-2018-2005331**

Department of Commerce, NOAA

Deadline: November 3, 2017

#### **FY2018 Marine Debris Prevention**

**NOAA-NOS-ORR-2018-2005333**

Department of Commerce, NOAA

Deadline: December 16, 2017

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### **4. Course Announcements**

#### **UN 5400 Climate Science and Policy**

This course will give you tools to link your field of study to the topic of global climate change. We will explore the science of climate change from the perspectives of physical sciences, engineering, psychology, and social science. We will assess policy responses on local, national, and international levels and analyze internationally agreed targets from a science and policy perspective. Additional climate topics will be guided by class interest and current events.

Upper division undergraduates welcome!

Course: UN 5400 (new #), 3 credits  
When: Fall 2017  
Where: Chem Sci 215  
Time: MW 3:05 pm - 4:20 pm  
Instructor: Prof. Sarah A. Green, [sgreen@mtu.edu](mailto:sgreen@mtu.edu), 487-3419  
Please contact me for more information (including schedule conflicts).

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## 5. Request Contribution numbers for GLRC Publications

Please email Carol Asiala ([glrcadmin-l@mtu.edu](mailto: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](mailto:glrcadmin-l@mtu.edu)) to request a Contribution Number. Please provide as much citation info as possible - author(s), title, journal/book, etc.
2. Add to your acknowledgements section, "This is Contribution No. \_ of the Great Lakes Research Center at Michigan Tech."
3. Get back to Carol when your paper is in print and give her the volume and page numbers.

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

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## 6. Reports and Action Plans

### [Federal Science Partners Periodic Update](#)

July 28, 2017

### [Great Lakes Connections](#)

International Joint Commission newsletter

August 2017

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## 7. Conferences & Webinars

### **September 15, 2017 - Applications Due**

**The Society for Ecological Restoration's** certification program is now accepting applications for Certified Ecological Restoration Practitioners (CERPs) and Certified Ecological Restoration Practitioners-in-Training (CERPITs)! Certification encourages a high professional standard for those who are designing, implementing, overseeing, and monitoring restoration projects throughout the world. The current list of certified practitioners can be found at [www.ser.org/page/CERPSearchList](http://www.ser.org/page/CERPSearchList). The current application window is open through September 15, 2017. Find out more information and begin your application at [www.ser.org/page/certification](http://www.ser.org/page/certification).

**September 19-20, 2017**

[Great Lakes Commission 2017 Annual Meeting](#)

Duluth, MN

**October 11-12, 2017**

[Great Lakes Observing System Annual Meeting](#)

NOAA Great Lakes Environmental Research Lab (GLERL)

Ann Arbor, MI

**October 17-19, 2017**

[13th Annual Great Lakes Restoration Conference](#)

Buffalo, New York

**October 25-27, 2017**

[Michigan Aquatic Restoration Conference](#)

Boyne Falls, MI

**November 7 – 9, 2017**

[Training Workshop: Using In-Situ Water Quality Sensors - Lagrangian and Eulerian Applications](#)

CUAHSI and the University of Florida

Gainesville, FL

**November 7 – 9, 2017**

[13th Annual MiCorps Conference & Training](#)

Kettunen Center

14901 4H Drive - Tustin, MI

**November 7-10, 2017**

[State of Lake Michigan \(SOLM\) Conference](#), and

Annual meeting of the Great Lakes Beach Association

Green Bay, WI

**February 20-22, 2018**

[23<sup>rd</sup> Annual Wetland Science Conference](#)

Wisconsin Wetlands Association

Oconomowoc, Wisconsin

- **Call for Symposia.** SUBMISSION DEADLINE: Sept. 29, 2017.
- **Call for Presentations & Posters** – to be issued September 2017.  
SUBMISSION DEADLINE: Nov. 15, 2017
- **Student Scholarships** – APPLICATION DEADLINE: Jan. 12, 2018  
Note: we will also be holding a **student presentation competition** with *cash prizes!*
- **Registration** – to open December 2017. EARLY BIRD DEADLINE: Jan. 19, 2018

**June 18-21, 2018**

[9th International Charr Symposium](#)

Duluth, Minnesota

Call for papers will be sent in Sept-Oct 2017

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## **8. 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

### **[Aquatic Habitat Grant Program](#)**

Michigan Department of Natural Resources

Pre-proposal deadline: August 28, 2017

### **[FY18 Bluefin Tuna Research Program](#)**

NOAA-NMFS-SE-2018-2005292

Department of Commerce, NOAA

Deadline: September 1, 2017

### **[BLM-\(MT\), Water Quality Assessment and Monitoring](#)**

L17AS00200

Department of the Interior, Bureau of Land Management

Deadline: September 4, 2017

### **[Integrated \*Cladophora\* research and modeling in support of GLWQA Annex 4 phosphorus target setting](#)**

EPA-R5-GL2017-CLA

Environmental Protection Agency

[Great Lakes Restoration Initiative Action Plan II](#)

Deadline: September 5, 2017

### **[BLM-\(MT\), Geospatial Riparian-Wetland Data Development](#)**

L17AS00203

Department of the Interior, Bureau of Land Management

Deadline: September 7, 2017

### **[Climate Program Office 2018](#)**

NOAA-OAR-CPO-2018-2005133

Department of Commerce, NOAA

Deadline: September 11, 2017

### **[National Fish Passage Program](#)**

F17AS00030

Department of the Interior, Fish and Wildlife Service

Deadline: September 30, 2017

**Coastal Program F17AS00014**

Department of the Interior, Fish and Wildlife Service

Deadline: September 30, 2017

**FY2016 to FY2017 NOAA Broad Agency Announcement (BAA)**

**NOAA-NFA-NFAPO-2016-2004791**

Department of Commerce, NOAA

Deadline: September 30, 2017

**Partners for Fish and Wildlife**

F17AS00015

Department of the Interior, Fish and Wildlife Service

Deadline: September 30, 2017

**Yukon River Salmon Research and Management Assistance FY2018**

F17AS00303

Department of the Interior, Fish and Wildlife Service

Deadline: January 5, 2017

**Interpreting the Conditions of the Nation's Freshwater, Wetland and Coastal Resources**

US EPA

Research Associateship Programs, Fellowship Office, Policy and Global Affairs

Deadlines: February 1 ; May 1 ; August 1 ; November 1

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

**2018 Draft Schedule for Implementation Grants**

2/17/17: Watershed Plans must be submitted for Approval

6/12/17: Draft RFP information Released

7/19/17: RFP Released

7/19/17: Watershed Plans must be 319 Approved

7/25/17: Webinar – RFPs, Eligibility, Priorities, and NOI form

8/16/17: Notice of Intent Letters due

8/30/17: Invitations for Full Proposals sent via e-mail

9/12/17: Webinar – Priorities, Project and application tips

10/13/17: Proposals due

Proposal Review

Projects Awarded Early Summer 2018

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

**2018 Draft Schedule for Planning Grants**

6/12/17: Draft RFP information Released

7/19/17: RFP Released

7/25/17: NPS Webinar

9/11/17: Proposals due

Proposal Review

Projects Awarded Mid-January 2018 -OR- after Federal FY18 Budget Approval

## Fox River Natural Resource Damage Assessment

F17AS00186

Department of the Interior, Fish and Wildlife Service

Deadline: December 31, 2017

### NSF Announcements:

| <b>Program Nbr</b> | <b>Title</b>  | <b>Proposal Deadline</b>   |
|--------------------|---|--|
| 16-509             | <u>Long-Term Ecological Research (LTER) New Site Competition</u>  | No date set for next year yet<br>Pre-Proposal: Feb. 1, 2016<br>Full Proposal: Aug. 2, 2016           |
| 16-503             | <u>National Science Foundation Research Traineeship Program (NRT)</u>   | No date set for next year yet<br>LOI: December 9, 2016<br>Prop: February 7, 2017                     |
| 15-609             | <u>Division of Environmental Biology (core programs) (DEB)</u>  | Pre-Proposal: Jan. 23, 2017<br>Full Proposal: Aug 2, 2017  |
| 16-500             | <u>Long Term Research in Environmental Biology (LTREB)</u>  | Pre-Proposal: Jan. 23, 2017<br>Full Proposal: Aug 2, 2017  |
| 17-543             | <u>Antarctic Research</u>   | May 23, 2017   |
| 16-571             | <u>Partnerships for International Research and Education (PIRE)</u><br><br>Limited Submission –Internal Deadline:   | Pre-Proposal: Sept 14, 2016<br>Full Proposal: Apr 24, 2017<br>August 3, 2016                         |
| 15-555             | <u>Faculty Early Career Development Program (CAREER)</u>  | July 19, 2017: BIO, CISE, EHR<br>July 20, 2017: ENG<br>July 21, 2017: GEO, MPS, SBE                  |
| 14-559             | <u>Opportunities for Promoting Understanding through Synthesis (OPUS)</u>   | August 1, 2017   |
| 15-506             | <u>Science, Technology, and Society (STS)</u>   | August 3, 2017   |
| 15-577             | <u>Collections in Support of Biological Research (CSBR)</u>   | August 14, 2017  |
| PD 98-1650         | <u>Biological Oceanography</u>  | August 15, 2017  |
| PD 98-1610         | <u>Physical Oceanography</u>  | August 15, 2017  |
| PD 98-1670         | <u>Chemical Oceanography</u>  | August 15, 2017  |
| PD 98-1620         | <u>Marine Geology &amp; Geophysics</u>  | Proposals Accepted Anytime   |
| 17-566             | <u>Geography and Spatial Sciences Program</u>   | September 7, 2017  |
| PD 17-7643         | <u>Environmental Sustainability</u>   | October 20, 2017   |
| PD 17-1417         | <u>Chemical and Biological Separations</u>  | October 20, 2017   |
| PD-17-1440         | <u>Environmental Engineering</u>  | October 20, 2017   |
| PD 09-6882         | <u>Environmental Chemical Sciences (ECS)</u>  | October 31, 2017   |
|                    |   |  |
| 13-589             | <u>Oceanographic Facilities and Equipment Support</u><br>Ship Operations<br>Oceanographic Technical Services<br>Oceanographic Instrumentation<br>Shipboard Scientific Support Equipment<br>Ship Acquisition and Upgrade & Other Facility Activities | November 15, 2017<br>November 15, 2017<br>December 15, 2017<br>December 15, 2017<br>Accepted Anytime |
| 15-536             | <u>Research Experiences for Teachers (RET) in Engineering and Computer Science</u><br>Limited Submission – Internal Deadline:   | November 1, 2017 ?<br>not posted yet for 2017  |
| 15-600             | <u>Integrated Earth Systems (IES)</u>   | November 14, 2017  |
| 14-601             | <u>Dynamics of Coupled Natural and Human Systems (CNH)</u>  | November 21, 2017  |

|               |   |                                      |
|---------------|---|--------------------------------------|
| 16-506        | <a href="#">Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML)</a> | December 8, 2017                     |
| 15-568        | <a href="#">Earth Sciences Postdoctoral Fellowships (EAR-PF)</a>  | January 9, 2018                      |
| 15-504        | <a href="#">Major Research Instrumentation Program (MRI)</a><br>Limited Submission –Internal Deadline:                                | January 10, 2018<br>October 25, 2017 |
| 16-517        | <a href="#">National Robotics Initiative (NRI)</a>  | January 11, 2018                     |
| PD 98-1680    | <a href="#">Ocean Technology and Interdisciplinary Coordination</a>   | February 15, 2018                    |
| 17-527        | <a href="#">NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)</a>  | March 28, 2018                       |
| 15-558        | <a href="#">Hydrologic Sciences (HS)</a>  | Accepted Anytime                     |
| PD-06-5740    | <a href="#">Climate and Large-Scale Dynamics</a>  | Accepted Anytime                     |
| 15-560        | <a href="#">Geomorphology and Land-use Dynamics (GLD)</a>   | Accepted Anytime                     |
| <b>15-516</b> | <a href="#">Earth Sciences: Instrumentation and Facilities (EAR/IF)</a>   | Accepted Anytime                     |
| 16-595        | <a href="#">Arctic Research Opportunities</a>   | Accepted Anytime                     |

## [NASA ROSES 2017](#)

| APPENDIX | PROGRAM   | NOI/Step 1 DUE DATE [2] | PROPOSAL DUE DATE                      |
|----------|---|-------------------------|--|
| A.1      | <a href="#">Earth Science Research Program Overview</a>   | N/A                     | N/A                                    |
| A.8      | <a href="#">Supporting UN Sustainable Development Goals 14 and 15 in the Context of Climate Variability and Change</a>  | TBD                     | TBD                                    |
| A.9      | <a href="#">ECOSTRESS Science Team</a>  | TBD                     | TBD                                    |
| A.11     | <a href="#">Ocean Salinity Science Team</a>   | 7/31/2017               | 8/31/2017                              |
| A.14     | <a href="#">Ocean Vector Winds Science Team</a>   | 9/29/2017               | 10/30/2017                             |
| A.17     | <a href="#">IceBridge Research</a>  | 10/3/2017               | 11/3/2017                              |
| A.19     | <a href="#">Solar Irradiance Science Team</a>   | 8/4/2017                | 10/6/2017                              |
| A.24     | <a href="#">DSCOVER Science Team</a>  | TBD                     | TBD                                    |
| A.29     | <a href="#">Rapid Response and Novel Research in Earth Science</a>  | N/A                     | Rolling submissions through 3/29/2018  |
| A.33     | <a href="#">Science Team for the OCO Missions</a>   | N/A                     | 9/14/2017                              |
| A.34     | <a href="#">Earth System Science Pathfinder (ESSP) Venture-class Science Investigations: Earth Venture Suborbital-3</a> | TBD                     | TBD                                    |
| A.36     | <a href="#">New (Early Career) Investigator Program in Earth Science</a>  | 7/31/2017               | 9/14/2017                              |
| A.39     | <a href="#">Earth Science Applications: Health and Air Quality</a>  | <b>09/01/2017</b>       | <b>11/03/2017</b>                      |
| A.40     | <a href="#">Earth Science Applications: Disaster Risk Reduction and Resilience</a>                                      | TBD                     | TBD                                    |
| A.42     | <a href="#">Advancing Collaborative Connections for Earth System Science</a>  | TBD                     | TBD                                    |
| E.2      | <a href="#">Topical Workshops, Symposia, and Conferences</a>  | N/A                     | Rolling submissions through 03/29/2018 |



## 9. Graduate Certificate in Sustainable Water Resources Systems

Currently enrolled students can download the [Certificate Degree Schedule](#) to plan their coursework. When they have completed the required courses, or are enrolled in the last ones, the certificate degree schedule should be submitted to Nancy Byers Sprague ([nspr@mtu.edu](mailto:nspr@mtu.edu)) in the Graduate School.

### Request from CWS:

If you plan to complete the certificate, please email Carol Asiala ([mtcws@mtu.edu](mailto:mtcws@mtu.edu))

- If you are not already on the **glrc-student-community-1** 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:

<http://www.mtu.edu/gradschool/documents/policies-procedures/forms/certificates-icsw.pdf>

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## 10. Student Research Grants (**December 1**) and Travel Grants (**August 25**)

**Research Awards:** Graduate and undergraduate research awards are now due the first Friday in **December** and **March** of each year, and the 2<sup>nd</sup> Friday in **August**.

**December 1, 2017**    **March 2, 2018**    **August 10, 2018**

Each award can be up to \$750. Awards can also be used to support undergraduate research in formal class settings (e.g. Enterprise, Senior Design, Pavlis, senior thesis, capstone classes etc.). The research should support the Center's mission

(<http://www.mtu.edu/greatlakes/about/documents/strategic-plan.pdf>).

**Travel Awards:** Graduate student travel grants (\$500) are also available through the Center for Water and Society to present a water related paper at a conference. Applications are reviewed on the **last Friday of each month**, and must be submitted at least **2 weeks in advance** of planned travel.

Applications for **Travel and Research** grants are online at:

<http://www.mtu.edu/greatlakes/about/documents/glrc-travel-grant-app.pdf>

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

Students will also be required to indicate how they would like to provide a return on the GLRC investment. Options include:

- a. presenting a poster at World Water Day in March;
  - b. assisting with preparations for World Water Day;
  - c. assisting with GLRC-sponsored outreach activities;
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## **11. Colloquium Course – UN5100 – next offered: Spring 2018**

### **Water & Society Colloquium Course**

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

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

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

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

[http://www.mtcws.mtu.edu/education\\_colloquium.html](http://www.mtcws.mtu.edu/education_colloquium.html)

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.

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## **12. Seminar Speaker Support Program**

Great Lakes Research Center members can apply for assistance in bringing seminar speakers to Michigan Tech. Lecture topics should be of interest to the GLRC, and the visit should correspond with GLRC goals. The **Seminar Speaker Request** form should be emailed to Carol Asiala at [mtcws@mtu.edu](mailto:mtcws@mtu.edu).

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## **13. CUAHSI (Consortium of Universities for the Advancement of Hydrologic Science, Inc.)**

Michigan Technological University is a member university of CUAHSI (<http://www.cuahsi.org>) through the support of the Center for Water & Society and the CEE and GMES departments. Explore their website for resources available to faculty and research.

**CUAHSI Cyberseminar Schedule:** <https://www.cuahsi.org/Cyberseminars>

**CUAHSI members will now receive discounted registration rates for CUAHSI events and workshops.**

Michigan Tech faculty, staff and students are CUAHSI members, and are eligible for the member discount. The member discounts will go into effect for the [2017 CUAHSI Conference on Hydroinformatics](#). Simply choose the CUAHSI member registration type when registering to receive the discounted rate. The member discounts for CUAHSI training workshops will go into effect starting in 2018.

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## **14. Job Opportunities**

### **IOOS Deputy Director (Supervisory Program Manager, ZA-0340-05)**

Interagency Ocean Observation Committee

MAP (Federal and Veteran applicants)

· <https://www.usajobs.gov/GetJob/ViewDetails/477622200>

DE/CR (Non-federal applicants)

· <https://www.usajobs.gov/GetJob/ViewDetails/477622900>

Open through September 5, 2017

### **IAGLR Job Board**

Job Opportunities in the Great Lakes

### **The Stewardship Network – Job Postings**

#### **State of Minnesota**

Hydrologist & Natural Resources positions

<https://statejobs.doer.state.mn.us/JobPosting>

Search on Job Grouping=Environmental Sciences

Or Department = Pollution Control Agency (includes summer jobs for students)

### **The Ohio Environmental Council – Careers & Internships**

#### **Positions posted on CUAHSI web site**

(Careers/fellowships/post-docs/research assistantships/faculty positions)

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## **15. Student Opportunities**

### **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