

Michigan Tech Water Newsletter

Please send water-related items to post in the weekly email to Carol Asiala at glrcadmin-l@mtu.edu. We would especially like to include on-campus seminar announcements, off-campus conferences and webinars, and notifications of new funding and other member highlights.

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1. Highlights

[Michigan Tech Joins Louisiana State, 4 Others in Coastal Marshes Research](#)

Michigan Tech PI: Jill Olin, a research scientist at the Great Lakes Research Center
Michigan Tech News, July 18, 2017

Joan Chadde (CEE/GLRC) is in Detroit this week conducting a four-day teacher Institute at the Belle Isle Aquarium as part of an **National Science Foundation Innovative Technology Experiences for Student and Teachers (ITEST)** grant project. The project's goal is to increase the interest of diverse students in science and science careers. The Project is a collaboration with Wayne State University (Jeff Ram, PI) and the Belle Isle Conservancy.

[Visiting Women and Minority Lecturers/Scholars](#)

by Institutional Equity and Inclusion

Michigan Tech is offering grants through the Visiting Women and Minority Lecturer Scholar Series to help departments bring visiting minority and underrepresented speakers to the University.

All departments are invited to participate in these programs. **Applications are due by noon August 18.** Notification of awards will be made by September 29.

World Water Day (22 March) is a day to raise awareness and inspire action to tackle water and sanitation issues. The theme for World Water Day 2018 is *'Nature for Water'* and will show the potential of nature-based solutions for water and how they can be considered for water management policy and practice.

August 18 is early to select our World Water Day Guest Lecturer, but if someone has a good suggestion for this event, we could combine GLRC and VWMLS resources to to invite a minority or underrepresented speaker to present at Michigan Tech's World Water Day events in March. Please contact Carol Asiala (glrcadmin-1@mtu.edu) with any suggestions.

Transdisciplinary: Working Across Borders to Solve Global Issues

Unscripted: Science and Engineering Research article about Alex Mayer's research.

Published on July 7, 2017 by Kelley Christensen

2. On-Campus Seminars

August, 10, 2017

Project PLACE: Promoting Learning about Computational Tools & the Environment

2017 Poster Session

National Science Foundation Research Experiences for Teachers (RET)

- *Investigating Air Pollution in the Great Lakes Region*
- *Source Water Quality & Effects on Corrosion: Comparing the Detroit & Flint Rivers Sturgeon Stewardship for the Saginaw Bay*
- *Blanding's Turtle Habitat: Requirements, Threats & Conservation*
- *Effect of Composting at a School on Greenhouse Gas Emissions & School Expenditures*
- *Effects of Dissolved Oxygen on Benthic Macroinvertebrate Populations & Diversity*

Great Lakes Research Center 2nd Floor Atrium

1:00-5:00 pm

Friday, August 11, 2017

Larry Schirmer, Civil Engineering

Advisor: David Watkins

“Design, Laboratory Testing, and Yield Line Analysis of a Ferrocement Pit Latrine Slab”

Dow 875

10:00 am

August 17-22, 2017

Association of Students for People, Environments and Nature (ASPEN)

The Association of Students for People, Environments and Nature (ASPEN) has openings for Michigan Tech students to attend a [professional development trip to the Boundary Waters Canoe Area Wilderness](#)

Contact [Erin Burkett](#), ASPEN treasurer, soon if you are interested.

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.

[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

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](#)

July 28, 2017

[Great Lakes Connections](#)

International Joint Commission newsletter

August 2017

6. Conferences & Webinars

Friday, August 11, 2017 - Call for Abstracts Deadline

[State of Lake Michigan \(SOLM\) Conference](#), and
Annual meeting of the Great Lakes Beach Association
Conference Dates: Nov. 7-10, 2017, Green Bay, WI

Tuesday, August 15, 2017

Dr. Yushun Chen, Ph.D., Institute of Hydrobiology, Chinese Academy of Sciences
“Ecological responses to water diversion of the eastern route of the South-to-North Water Diversion Project (SNWDP) of China”

Great Lakes Seminar Series, NOAA-GLERL
10:30 - 11:30 am EDT

*Remote participation is available via webinar. To participate remotely, please register at:
<https://attendee.gotowebinar.com/register/605285931270821634>. Once registered, you will receive a confirmation email containing information about joining the webinar.

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. The current application window is open through September 15, 2017. Find out more information and begin your application at www.ser.org/page/certification.

September 19-20, 2017

[Great Lakes Commission 2017 Annual Meeting](#)
Duluth, MN

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

June 18-21, 2018

[9th International Charr Symposium](#)

Duluth, Minnesota

Call for papers will be sent in Sept-Oct 2017

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

[Great Lakes Air Deposition \(GLAD\)](#)

Indiana Department of Environmental Management (IDEM)

Deadline: August 9, 2017

[Advanced Technology Solutions for Unconventional Oil and Gas Development \(includes wastewater disposal strategies\)](#)

Department of Energy

Due August 15, 2017

[National Priorities: Transdisciplinary Research into Detecting and Controlling Lead in Drinking Water](#)

EPA-G2017-ORD-F1

U.S. Environmental Protection Agency

Office of Research and Development

National Center for Environmental Research

Deadline: August 15, 2017

[URBAN WATERS MIDDLE BLUE RIVER AMBASSADOR](#)

EPA-R7WWPD-17-002

Environmental Protection Agency

Deadline: August 15, 2017

[BLM-CO Gunnison Basin Wet Meadow Restoration and Climate Change Adaptation Project](#)

L17AS00188

Department of the Interior, Bureau of Land Management

Deadline: August 25, 2017

[BLM Utah Fisheries and Riparian Resources Programs and Projects](#)

L17AS00189

Department of the Interior, Bureau of Land Management

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

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:

Program Nbr	Title	Proposal Deadline
16-509	<u>Long-Term Ecological Research (LTER) New Site Competition</u>	No date set for next year yet Pre-Proposal: Feb. 1, 2016 Full Proposal: Aug. 2, 2016
16-503	<u>National Science Foundation Research Traineeship Program (NRT)</u>	No date set for next year yet LOI: December 9, 2016 Prop: February 7, 2017
15-609	<u>Division of Environmental Biology (core programs) (DEB)</u>	Pre-Proposal: Jan. 23, 2017 Full Proposal: Aug 2, 2017
16-500	<u>Long Term Research in Environmental Biology (LTREB)</u>	Pre-Proposal: Jan. 23, 2017 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> Limited Submission –Internal Deadline:	Pre-Proposal: Sept 14, 2016 Full Proposal: Apr 24, 2017 August 3, 2016
15-555	<u>Faculty Early Career Development Program (CAREER)</u>	July 19, 2017: BIO, CISE, EHR July 20, 2017: ENG

		July 21, 2017: GEO, MPS, SBE
14-559	Opportunities for Promoting Understanding through Synthesis (OPUS)	August 1, 2017
15-506	Science, Technology, and Society (STS)	August 3, 2017
15-577	Collections in Support of Biological Research (CSBR)	August 14, 2017
PD 98-1650	Biological Oceanography	August 15, 2017
PD 98-1610	Physical Oceanography	August 15, 2017
PD 98-1670	Chemical Oceanography	August 15, 2017
PD 98-1620	Marine Geology & Geophysics	Proposals Accepted Anytime
17-566	Geography and Spatial Sciences Program	September 7, 2017
PD 17-7643	Environmental Sustainability	October 20, 2017
PD 17-1417	Chemical and Biological Separations	October 20, 2017
PD-17-1440	Environmental Engineering	October 20, 2017
PD 09-6882	Environmental Chemical Sciences (ECS)	October 31, 2017
13-589	Oceanographic Facilities and Equipment Support Ship Operations Oceanographic Technical Services Oceanographic Instrumentation Shipboard Scientific Support Equipment Ship Acquisition and Upgrade & Other Facility Activities	November 15, 2017 November 15, 2017 December 15, 2017 December 15, 2017 Accepted Anytime
15-536	Research Experiences for Teachers (RET) in Engineering and Computer Science Limited Submission – Internal Deadline:	November 1, 2017 ? not posted yet for 2017
15-600	Integrated Earth Systems (IES)	November 14, 2017
14-601	Dynamics of Coupled Natural and Human Systems (CNH)	November 21, 2017
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) Limited Submission –Internal Deadline:	January 10, 2018 October 25, 2017
16-517	National Robotics Initiative (NRI)	January 11, 2018
PD 98-1680	Ocean Technology and Interdisciplinary Coordination	February 15, 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
16-595	Arctic Research Opportunities	Accepted Anytime

[NASA ROSES 2017](#)

APPENDIX	PROGRAM	NOI/Step 1 DUE DATE [2]	PROPOSAL DUE DATE
A.1	Earth Science Research Program Overview	N/A	N/A
A.2	Land-Cover/Land-Use Change	4/3/2017 (NOI)	6/8/2017
A.8	Supporting UN Sustainable Development Goals 14 and 15 in the Context of Climate Variability and Change	TBD	TBD
A.9	ECOSTRESS Science Team	TBD	TBD

A.10	Physical Oceanography	5/30/2017	6/30/2017
A.11	Ocean Salinity Science Team	7/31/2017	8/31/2017
A.14	Ocean Vector Winds Science Team	9/29/2017	10/30/2017
A.16	Cryospheric Science	5/16/2017	6/16/2017
A.17	IceBridge Research	10/3/2017	11/3/2017
A.19	Solar Irradiance Science Team	8/4/2017	10/6/2017
A.20	Atmospheric Composition: Laboratory Research	N/A	5/26/2017
A.23	Fire Impacts on Regional to Global Scales: Emissions, Chemistry, Transport, and Models	N/A	6/16/2017
A.24	DSCOVR Science Team	TBD	TBD
A.25	Terrestrial Hydrology	06/28/2017	8/03/2017
A.29	Rapid Response and Novel Research in Earth Science	N/A	Rolling submissions through 3/29/2018
A.33	Science Team for the OCO Missions	N/A	9/14/2017
A.34	Earth System Science Pathfinder (ESSP) Venture-class Science Investigations: Earth Venture Suborbital-3	TBD	TBD
A.36	New (Early Career) Investigator Program in Earth Science	7/31/2017	8/31/2017
A.37	The Science of Terra, Aqua, Suomi NPP, and JPSS	6/19/2017	8/17/2017
A.39	Earth Science Applications: Health and Air Quality	09/01/2017	11/03/2017
A.40	Earth Science Applications: Disaster Risk Reduction and Resilience	TBD	TBD
A.42	Advancing Collaborative Connections for Earth System Science	TBD	TBD
A.45	Computational Modeling Algorithms and Cyberinfrastructure	5/25/2017	7/27/2017
E.2	Topical Workshops, Symposia, and Conferences	N/A	Rolling submissions through 03/29/2018

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 CWS:

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:

CWS Web page: http://www.mtcws.mtu.edu/education_gradcert.html

Grad School:

<http://www.mtu.edu/gradschool/administration/academics/forms-deadlines/pdfs/Certificates-ICSW.pdf>

9. Student Research Grants (August 11) 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 2nd Friday in **August**.

December 9, 2016 March 3, 2017 August 11, 2017

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.mtcws.mtu.edu/about.html#mission>).

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;
-

10. 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)

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.

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 mtcws@mtu.edu.

12. 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.

13. Job Opportunities

[Maine Sea Grant Director](#)

Closing date: July 27, 2017

[Civil Engineer](#)

Department of the Army, U.S. Army Corps of Engineers
Closing Date: 2017-08-01

[Regional Economist ZP 0110-3/4 \(DE/CR\)](#)

Department of Commerce, National Oceanic and Atmospheric Administration
Closing Date: 2017-08-04

[Research participation training opportunity](#)

Applications of Satellite Water Quality Products for Freshwater HABs & Estuary Seagrass Monitoring

Organization: U.S. Environmental Protection Agency (EPA)

Reference Code: PA-ORD-NERL-EMMD-2017-02

[Stormwater Program Coordinator, Environmental Programs](#)

Grand Valley Metro Council
Posted on June 12, 2017

[Director, Maine Sea Grant \(id:41595\)](#)

Sea Grant
Review begins on July 17, 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)

14. 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