

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

The Great Lakes Research Center 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

A panel discussion about Nature-based Solutions for Water is planned for March 28, and the annual student poster session will be held March 27-28. Graduate and Undergraduate students of all majors are encouraged to participate in the poster session. Cash prizes are awarded for 2 categories: 1) Original Research posters present thesis work related to any aspect of water, and 2) Coursework/Informational posters present literature-based research assigned as coursework, or of interest to the students. Additional World Water Day activities are in the planning stages.

Authored by Bill Rose (GMES), Erika Vye (GMES), Val Martin
Published by the Isle Royale and Keweenaw Parks Association (IRKPA)
Carnegie Museum of the Keweenaw, Community Room, Houghton 6:30 pm

Thursday, December 14, 2017

Johann Kowalko, PhD, Department of Genetics, Iowa State University

[Understanding the genetic basis of trait evolution in the cavefish, *Astyanax mexicanus*](#)

Biological Sciences Seminar

MEEM 402

3:00 pm

4. 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.

Reminder: The **[GACS pilot program](#)** offered by the Michigan Tech Graduate School has been extended to offer tuition support on proposals. There is no current end date set for this program.

[Atmospheric System Research](#)

DE-FOA-0001845

Department of Energy - Office of Science

Pre-Application Deadline: December 20, 2017

Deadline: February 28, 2018

[Environmental System Science](#)

DE-FOA-0001855

U. S. Department of Energy, Office of Science

Biological and Environmental Research

Pre-Application Deadline: December 20, 2017

Deadline: March 1, 2018

[Great Lakes Stewardship 2018](#)

Great Lakes Fishery Trust

Deadline: January 3, 2018

[2018 Ecosystem Health and Sustainable Fish Populations: Ecological and Biological Research to Inform Management](#)

Great Lakes Fishery Trust

Pre-Proposal Deadline: January 12, 2018

Full Proposal Deadline: April 13, 2018

[2018 Ecosystem Health and Sustainable Fish Populations: Social, Economic and Technology Research to Inform Policy and Practice](#)

Great Lakes Fishery Trust

Pre-Proposal Deadline: January 12, 2018
Full Proposal Deadline: April 13, 2018

2018 Ecosystem Health and Sustainable Fish Populations: Habitat Protection and Restoration

Great Lakes Fishery Trust
Proposal Deadline: February 23, 2018

Climate and Societal Interactions

NOAA-OAR-CPO-2018-2005445
Department of Commerce, NOAA
Deadline: March 16, 2018

Summer Undergraduate Research Fellowship (SURF) Program

2018-NIST-SURF-01
Department of Commerce, National Institute of Standards and Technology
Deadline: February 12, 2018

Earth System Model Development and Analysis

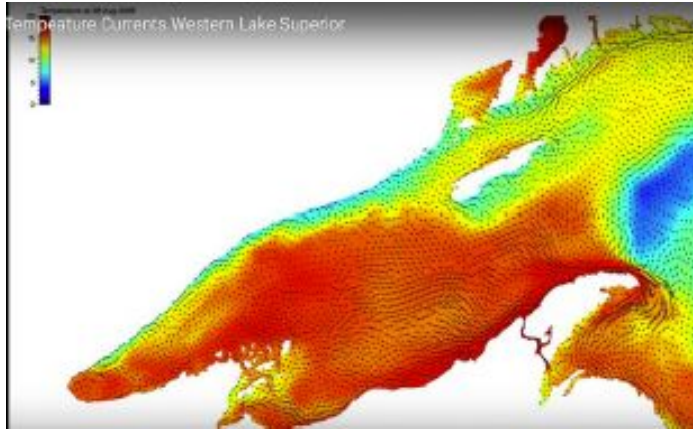
DE-FOA-0001862
Department of Energy - Office of Science
Pre-application Deadline: January 16, 2018
Application Deadline: March 19, 2018

5. Courses for Spring 2018 -

CEE 5520 Introduction to Hydrodynamic Modeling

3 Credits; Tues & Thurs 2:05 - 3:20 pm; Dillman 204

This is an introductory course of numerical methods used in hydrodynamic simulation. Topics include numerical model formulation, model simulation, data analysis, and parameter estimation. It provides fundamental concepts and various numerical methods used in hydrodynamic modeling. An introduction to the basic physical processes in the hydrodynamic system (e.g. oceans and lakes) and their numerical representation using governing equations will also be discussed. Students will have a chance to construct and use their own simplified numerical models to solve basic hydrodynamic questions in class projects. This class is aimed for helping student understand fundamental concepts of numerical modeling with its strengths and limitations and its application to the problems of coastal oceans and large lakes, as well as engineered systems that are of interest to environmental and other engineers.

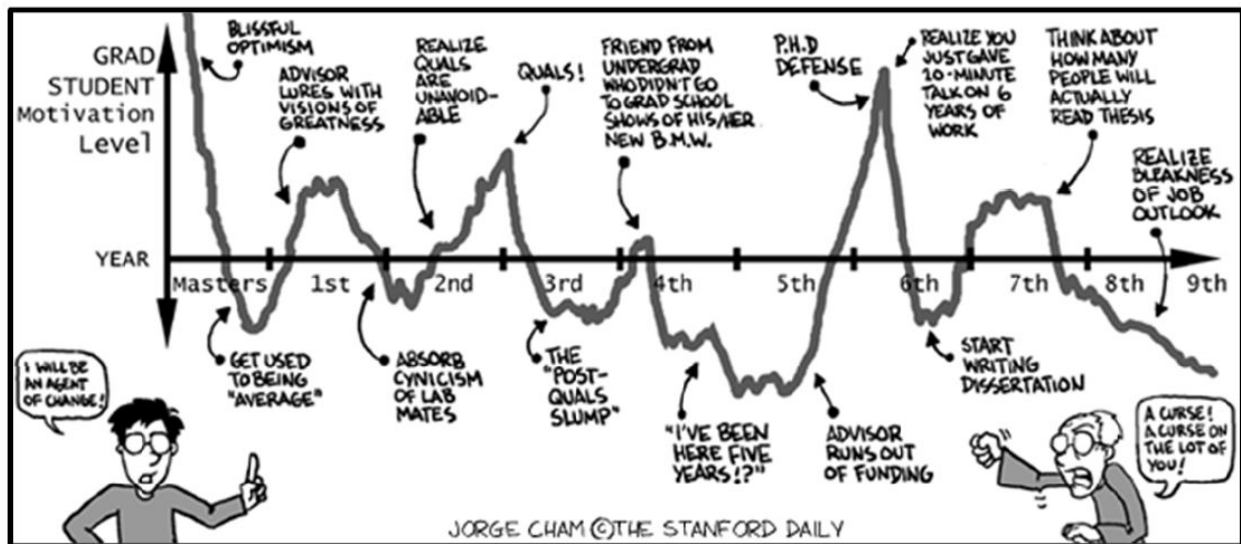


BL 5025 The Scientific Profession

2 Credits - CRN 14130; T 11:05 - 12:45; ChemSci Bldg, Room 0215

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 also participate. 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.



"Piled Higher and Deeper" by Jorge Cham. www.phdcomics.com. Used with permission

Contact: Amy Marcarelli, Department of Biological Sciences, ammarcar@mtu.edu

BL 4465 Biological Oceanography

3 credits - Lecture: MWF 11:05 - 11:55; ChemSci Bldg, Room 0215

The ocean is the majority of Earth and the largest biome on the planet. Processes that occur in the ocean are highly dynamic and central to regulating the planet's biogeochemistry and climate which influences the resources and ecosystem services provided to humans. This course is an introduction to biological oceanography and will provide an overview of the factors governing productivity, population dynamics and distribution of organisms in major

ecosystems of the ocean, with some coverage of topics related to earth sciences. The course covers ecological themes such as trophic level interactions, nutrient cycling, ecology of plankton, invertebrates, fish, mammal and bird resources. Additional topics include basic water chemistry and light in oceans, climate variability and effects, and human influences on marine ecosystems.

Contact: **Dr. Jill Olin**, Great Lakes Research Center, jaolin@mtu.edu, GLRC 110

BL 4070 Environmental Toxicology

3 credits - Lecture: MWF 9:05 - 9:55; ChemSci Bldg, Room 104A

Prerequisites: BL1010, BL1020 or BL1040, CH1150 & CH1160

This course will provide an introduction to basic principles of toxicology and cover the history and scope of the field; study a wide range of pollutants from legacy PCB's, DDT and mercury to emerging pollutants including pharmaceuticals and personal care products. Additional topics include consequences of pollutant release and exposure on human and environmental health and concepts such as bioconcentration, bioaccumulation and biomagnification, metabolism and elimination of toxicants, mechanisms of toxic action; carcinogenesis; as well as human and ecological risk assessment.

Contact: **Dr. Gord Paterson**, Department of Biological Sciences, gpaterso@mtu.edu, GLRC 112

BL 4450 Limnology will be offered again in Spring 2018

3 credits - CRN 15042 + 15043

Lecture: MW 10:05 - 10:55; Lab R 12:05 - 2:55

Limnology is the interdisciplinary study of biological, physical, and chemical processes of freshwater systems. This course is designed for advanced undergraduate and graduate students in Biology, Forestry, Wildlife, Civil and Environmental Engineering and other environmental disciplines seeking a deep understanding of how lakes work, and approaches for studying them.

Contact: **Amy Marcarelli**, Department of Biological Sciences, ammarcar@mtu.edu

6. Request Contribution numbers for GLRC Publications

Please email Carol Asiala (glrcadmin-l@mtu.edu) when you are preparing publications. We are continuing to follow in the time-honored tradition of many Institutes by recognizing Contribution Numbers in papers that we publish in the peer-reviewed literature. You are welcome to participate. All you need to do is -

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

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

7. Reports and Action Plans

[Federal Science Partners Periodic Update](#)

November 17, 2017

[Great Lakes Connections](#)

International Joint Commission newsletter

November 2017

8. Conferences & Webinars

[OneNOAA Science Seminars Series](#)

Currently scheduled webinars: October 2017 - March 2018

December 11-15, 2017

[AGU Fall Meeting](#)

New Orleans, LA

January 23-25, 2018

[NCSE 2018: The Science, Business, and Education of Sustainable Infrastructure](#)

National Council for Science and the Environment

Washington, DC

February 15-16, 2018

[2nd International Conference on Climate Change](#)

Colombo, Sri Lanka

Abstract Deadline: November 23, 2017

February 20-22, 2018

[23rd Annual Wetland Science Conference](#)

Wisconsin Wetlands Association

Oconomowoc, Wisconsin

- **Call for 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

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

Call for papers will be sent in Sept-Oct 2017

IAGLR 2018

International Association for Great Lakes Research (IAGLR)

Conference Theme: *Great Science for Tomorrow's Solutions*

Conference Dates: June 18-22, 2018 in Toronto

9. Open RFPs of ongoing interest

2017 National Fish Habitat Action Plan

F17AS00016

Department of the Interior, Fish and Wildlife Service

Deadline: Applications are accepted on a rolling basis

United States - Israel Binational Science Foundation

NSF-BSF Joint Funding Program

Deadlines are dependent on program: October - January

Young Faculty Award (YFA)

Solicitation Number: DARPA-RA-17-01

Agency: Other Defense Agencies

Office: Defense Advanced Research Projects Agency

Deadline: December 4, 2017

FY 2017 and FY 2018 Training and Technical Assistance to Improve Water Quality and Enable Small Public Water Systems to Provide Safe Drinking Water

EPA-OW-OGWDW-17-01

Environmental Protection Agency

Deadline: December 4, 2017

Cooperative Ecosystem Studies Unit, Great Lakes Northern Forests CESU

G18AS00011: model for the fate and transport of oil-particle aggregates (OPAs) in natural rivers after an oil spill incidence

Department of the Interior, Geological Survey

Deadline: December 5, 2017

Innovative Solutions for Fish Passage at Hydropower Dams

DE-FOA-0001662

Department of Energy, Golden Field Office

Deadline: December 7, 2017

FY18 Nancy Foster Scholarship Program

NOAA-NOS-ONMS-2018-2005346

Department of Commerce, NOAA

Deadline: December 8, 2017

FY18 ENVIRONMENTAL WORKFORCE DEVELOPMENT AND JOB TRAINING (EWDJT) GRANTS

EPA-OLEM-OBLR-17-10

Environmental Protection Agency

Deadline: December 15, 2017

Coastal Resilience Planning Support

Michigan Sea Grant

Eligible applicants are Michigan coastal communities

Deadline: December 15, 2017

Coastal Zone Management Program FY19

Michigan DEQ

Deadline: December 15, 2017

FY2018 Marine Debris Prevention

NOAA-NOS-ORR-2018-2005333

Department of Commerce, NOAA

Deadline: December 16, 2017

EPA's 2018 SBIR Phase I

EPA

Deadline: December 19, 2017

Atmospheric System Research

DE-FOA-0001845

Department of Energy - Office of Science

Pre-Application Deadline: December 20, 2017

Deadline: February 28, 2018

Fox River Natural Resource Damage Assessment

F17AS00186

Department of the Interior, Fish and Wildlife Service

Deadline: December 31, 2017

Solid Waste Management Grant Program

SWMFY2018

Department of Agriculture, Utilities Programs

Deadline: January 2, 2018

TAT Grant Program FY18

Technical Assistance and Training (TATFY18)

Department of Agriculture, Utilities Programs

Deadline: January 2, 2018

[Yukon River Salmon Research and Management Assistance FY2018](#)

F17AS00303

Department of the Interior, Fish and Wildlife Service

Deadline: January 5, 2018

[CZM Projects of Special Merit Competition - FY2018](#)

NOAA-NOS-OCM-2018-2005389

Department of Commerce, NOAA

Deadline: January 5, 2018

[Great Lakes Fish and Wildlife Restoration Act](#)

F18AS00012

Department of the Interior, Fish and Wildlife Service

Deadline: January 8, 2018

[Fishery Research and Sea Lamprey Research](#)

Great Lakes Fishery Commission

Pre-proposal Deadline: January 15, 2018

[Chesapeake Bay Program Office Fiscal Year 2018 Request for Proposals for Support for both the Small Watershed and the Innovative and Nutrient Sediment Reduction Grant Programs](#)

EPA-R3-CBP-18-01

Environmental Protection Agency

Deadline: January 15, 2018

[FY2018 Coastal and Ocean Modeling Testbed Project](#)

NOAA-NOS-IOOS-2018-2005452

Department of Commerce, NOAA

Deadline: January 19, 2018

[FY 2018 NATIONAL ENVIRONMENTAL INFORMATION EXCHANGE NETWORK GRANT PROGRAM](#)

EPA-OEI-18-01

Environmental Protection Agency

Note: Michigan Tech is designated as an Instrumentality of the State of Michigan and if therefore eligible to lead a proposal

Deadline; January 26, 2018

[Fiscal Year 2018 NMFS-Sea Grant Fellowships in Marine Resource Economics](#)

NOAA-OAR-SG-2018-2005450

Department of Commerce, NOAA

Deadline: January 26, 2017

[Fiscal Year 2018 NMFS-Sea Grant Fellowships in Population and Ecosystem Dynamics](#)

NOAA-OAR-SG-2018-2005442

Oceanic and Atmospheric Research (OAR), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce
Deadline: January 26, 2018

[Coastal Hypoxia Research Program \(CHRP\)](#)

NOAA-NOS-NCCOS-2018-2005327
Department of Commerce, NOAA
Deadline: January 30, 2018

[National Estuarine Research Reserve System \(NERRS\) Land Acquisition and Construction Program for Fiscal Year 2018](#)

NOAA-NOS-OCM-2018-2005340
Department of Commerce, NOAA
Deadline: February 1, 2018

[Round 3 of Research to Operations Initiative: NGGPS and HFIP](#)

NOAA-NWS-NWSPO-2018-2005325
Department of Commerce, NOAA
Deadline: February 7, 2018

[Round 3 of Research to Operations Initiative: NOAA Testbeds](#)

NOAA-NWS-NWSPO-2018-2005317
Department of Commerce, NOAA
Deadline: February 7, 2018

[2018 Regional Ecosystem Prediction Program \(REPP\): Understanding Coral Ecosystem Connectivity in the western Gulf of Mexico](#)

NOAA-NOS-NCCOS-2018-2005334
Department of Commerce, NOAA
Deadline: February 9, 2018

[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

[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

[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:

Program Nbr	Title	Proposal Deadline
16-503	<u>National Science Foundation Research Traineeship Program (NRT)</u>	Letter of Intent: December 6, 2017 Proposal: February 6, 2018
17-512	<u>Division of Environmental Biology (core programs) (DEB)</u>	Pre-Proposal: Jan. 23, 2018 Full Proposal: Aug 2, 2018
17-513	<u>Long Term Research in Environmental Biology (LTREB)</u>	Pre-Proposal: Jan. 23, 2018 Full Proposal: Aug 2, 2018
17-543	<u>Antarctic Research</u>	next deadline not set yet
18-510	<u>Research Coordination Networks in Undergraduate Biology Education (RCN-UBE)</u>	January 30, 2018
17-537	<u>Faculty Early Career Development Program (CAREER)</u>	July 18, 2018: BIO, CISE, EHR July 19, 2018: ENG July 20, 2018: GEO, MPS, SBE
14-559	<u>Opportunities for Promoting Understanding through Synthesis (OPUS)</u>	August 1, 2018
15-506	<u>Science, Technology, and Society (STS)</u>	February 2, 2018 August 3, 2018
15-577	<u>Collections in Support of Biological Research (CSBR)</u>	August 13, 2018
PD 98-1650	<u>Biological Oceanography</u>	February 15, 2018

		August 15, 2018
PD 98-1610	Physical Oceanography	February 15, 2018 August 15, 2018
PD 98-1670	Chemical Oceanography	February 15, 2018 August 15, 2018
PD 98-1620	Marine Geology & Geophysics	Proposals Accepted Anytime
17-566	Geography and Spatial Sciences Program	September 6, 2018
PD 17-7643	Environmental Sustainability	October 20, 2017
PD 17-1417	Chemical and Biological Separations	October 20, 2017
PD-17-1440	Environmental Engineering	October 20, 2017
PD 09-6882	Environmental Chemical Sciences (ECS)	October 31, 2017
13-589	Oceanographic Facilities and Equipment Support Ship Operations Oceanographic Technical Services Oceanographic Instrumentation Shipboard Scientific Support Equipment Ship Acquisition and Upgrade & Other Facility Activities	November 15, 2017 November 15, 2017 December 15, 2017 December 15, 2017 Accepted Anytime
15-536	Research Experiences for Teachers (RET) in Engineering and Computer Science Limited Submission – Internal Deadline: August 29	October 10, 2017
15-600	Integrated Earth Systems (IES)	November 14, 2017
18-503	Dynamics of Coupled Natural and Human Systems (CNH)	January 23, 2018
16-506	Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML)	December 8, 2017
15-568	Earth Sciences Postdoctoral Fellowships (EAR-PF)	January 9, 2018
15-504	Major Research Instrumentation Program (MRI) 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
17-593	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
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.8	Supporting UN Sustainable Development Goals 14 and 15 in the Context of Climate Variability and Change	TBD	TBD
A.24	DSCOVR Science Team	TBD	TBD
A.29	Rapid Response and Novel Research in Earth Science	N/A	Rolling submissions through 3/29/2018
A.34	Earth System Science Pathfinder (ESSP) Venture-class Science Investigations: Earth Venture Suborbital-3	Comments due by Oct 31, 2017	TBD

A.40	Earth Science Applications: Disaster Risk Reduction and Resilience	TBD	TBD
A.42	Advancing Collaborative Connections for Earth System Science	12/1/2017	1/31/2018
E.2	Topical Workshops, Symposia, and Conferences	N/A	Rolling submissions through 03/29/2018

10. Graduate Certificate in Sustainable Water Resources Systems

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

Request from GLRC:

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

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

11. Student Research Grants (**December 1**) and Travel Grants (**December 29**)

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 1, 2017

March 2, 2018

August 10, 2018

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

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 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)

Each week, participants will read a journal paper or scientific report in preparation of discussion sessions on Tuesdays. Select films from the Green Film series (held Thursday evenings) will be used in lieu of the paper/Tuesday discussions. Students not registered for the course and faculty are encouraged to participate.

Discussion sessions will be led by a group of students and faculty. This group will prepare a few questions or comments the week preceding the discussion and send these to the class as a way to begin focusing the discussion. The group will begin the discussion session with a 10-minute summary of the major issues covered by the preceding week’s reading and repeat the discussion questions.

This course (or SS 5325) is required for the CWS Graduate Certificate in Sustainable Water Resources Systems.

13. Seminar Speaker Support Program

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

14. Job Opportunities

[Climate Extension Specialist, Illinois-Indiana Sea Grant](#)

A1700731

University of Illinois Extension, College of Agricultural, Consumer & Environmental Sciences
Applications due: January 3, 2018

Lake Michigan Coastal Program (LMCP) Grant Specialist

Indiana DNR, Division of Nature Preserves, [Lake Michigan Coastal Program](#)

Application End Date: December 22, 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)

15. Student Opportunities

[Fiscal Year 2018 NMFS-Sea Grant Fellowships in Marine Resource Economics](#)

NOAA-OAR-SG-2018-2005450

Department of Commerce, NOAA

Deadline: January 26, 2017

[FY18 Nancy Foster Scholarship Program](#)

NOAA-NOS-ONMS-2018-2005346

Department of Commerce, NOAA

Deadline: December 8, 2017

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