

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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Best wishes to all of you over the Holidays and throughout the New Year!

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

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

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. Download the poster registration form [here](#).

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.

The Poster registration form is currently being updated. We will send out links to this soon!

2. New Funding

Joan Schumaker-Chadde (CEE/GLRC) is the principal investigator on a project that has received a \$91,000 grant from the US Environmental Protection Agency. **Amy Schrank (SFRES/GLRC)** is the Co-PI on the project, "*Creating Great Lakes Stewards to Promote Clean Water and Healthy Urban Watershed in Detroit.*" This is a two-year project.

3. IAGLR - Call for Abstracts due: January 19, 2018

[International Association for Great Lakes Research \(IAGLR\)](#)

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

Conference Dates: June 18-22, 2018 in Toronto

Abstract Deadline: Friday, January 19, 2018

4. On-Campus Seminars

5. 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.

[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

Early Career Research Program

DE-FOA-0001761

Department of Energy - Office of Science

Pre-Application Deadline: January 25, 2018

Deadline: April 4, 2018

The Office of Science of the Department of Energy is pleased to announce the request for applications for the fiscal year 2018 Early Career Research Program. The funding opportunity for researchers in universities and DOE national laboratories, now in its ninth year, supports the development of individual research programs of outstanding scientists early in their careers and stimulates research careers in the disciplines supported by the DOE Office of Science.

Opportunities exist in the following program areas: Advanced Scientific Computing Research (ASCR); Biological and Environmental Research (BER); Basic Energy Sciences (BES), Fusion Energy Sciences (FES); High Energy Physics (HEP), and Nuclear Physics (NP).

Issue Date: 12/18/2017

Pre-Application Due Date: 01/25/2018 at 5 PM Eastern Time (required)

Encourage/Discourage Date: 02/27/2018 at 5 PM Eastern Time

Application Due Date: 04/04/2018 at 5 PM Eastern Time

Website for Early Career Research Program: <https://science.energy.gov/early-career/>

FOA: https://science.energy.gov/~media/grants/pdf/foas/2017/SC_FOA_0001761.pdf

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.

Cooperative Ecosystem Studies Unit, Great Lakes Northern Forests (CESU)

G18AS00017

Department of the Interior, Geological Survey

Deadline: January 5, 2018

FY 2017 Continuation of Solicitation for the Office of Science Financial Assistance Program

DE-FOA-0001664

US Department of Energy

Deadline: January 31, 2018

Competition for a Cooperative Institute for Modeling the Earth System

NOAA-OAR-CIPO-2018-2005422

Department of Commerce, NOAA

Deadline: February 13, 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

Great Lakes Restoration Initiative, Partners for Fish and Wildlife 2018

F18AS00051

Department of the Interior, Fish and Wildlife Service

Deadline: September 20, 2018

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-1@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](#)

December 22, 2017

[Great Lakes Connections](#)

International Joint Commission newsletter
December 2017

8. Conferences & Webinars

[OneNOAA Science Seminars Series](#)

Currently scheduled webinars: October 2017 - March 2018

January 19, 2018 - Call for Abstract Deadline

[5th National Working Waterfronts and Waterways Symposium](#)

Conference: May 14-17, 2018 in Grand Rapids, MI

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

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

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

Summer Undergraduate Research Fellowship (SURF) Program

2018-NIST-SURF-01

Department of Commerce, National Institute of Standards and Technology

Deadline: February 12, 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

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

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

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

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	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 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

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	DSCOVER 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-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:

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

11. Student Research Grants (March 2) and Travel Grants (January 26)

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 – 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.

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

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

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

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