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.

New Funding
IAGLR 2018 Call for Sessions
On-Campus Seminars
New Funding Opportunities
Courses for Spring 2018 - Request Contribution numbers for GLRC Publications
Reports and Action Plans
Conferences & Webinars
Open RFPs of ongoing interest
Graduate Certificate in Sustainable Water Resources Systems
Student Research Grants (December 1) and Travel Grants (November 27)
Colloquium Course – UN5100 – next offered: Spring 2018
Seminar Speaker Support Program
Job Opportunities
Student Opportunities

1. New Funding

Pengfei Xue (CEE/GLRC) is the principal investigator on a project that has received a $68,975 research and development agreement with Ohio State University. Martin Auer (CEE) is the Co-PI on the project "ECOHAB 2017 Linking Process Models and Field Experiments to Forecast Algal Bloom Toxicity in Lake Erie."

This is the first year of a three-year project potentially totaling $206,907.

2. IAGLR 2018 Call for Sessions

IAGLR 2018 Call for Sessions
International Association for Great Lakes Research (IAGLR)
Conference Theme: Great Science for Tomorrow's Solutions
Deadline: November 10, 2017
Conference Dates: June 18-22, 2018 in Toronto

3. On-Campus Seminars

Monday, November 6, 2017
Mark Burns, Executive Director of MCubed and Research Innovation
University of MI Office of the Vice President for Research
"Web-Based Distribution of Research Seed Funding"
GLRC 201 9:00 am
Monday, November 6, 2017
Azad Heidari, PhD Candidate, CEE
Nicole Wehner, MS Student, CEE

**Hydrologic Impacts of Developing Second-Generation Bioenergy Feedstocks**
Environmental Engineering Seminar Series
GLRC 202  3:00 pm

Monday, November 6, 2017
PhD Defense: John Arnold, Industrial Heritage & Archaeology
Advisor: Donald Lafreniere

**Preserving the Vernacular Postindustrial Landscape: Big Data Geospatial Approaches to Heritage Management and Interpretation**
Academic Offices 201  3:00 pm

Monday, November 6, 2017
Dr. Peter Webley, Geophysical Institute, University of Alaska - Fairbanks

**Alaska Center for Unmanned Aircraft Systems Integration (ACUASI): Operational Support and Geoscience Research**
Earth, Planetary, and Space Sciences Institute (EPSSI) Seminar Series
M&M U113  4:00 pm

Tuesday, November 7, 2017
**Michigan Tech Research Forum:**
Distinguished lecture by John Vucetich, SFRES

**It's Not About Wolves: Interdisciplinary Knowledge for a Sustainable, Just and Prosperous World**
MUB Ballroom A  4:00 pm

Thursday, November 9, 2017
**Working Luncheon, MDOT Call For Research Ideas**
Hosted by Michigan Tech Transportation Institute (MTTI)
Dillman 309A  12:00 - 1:00 pm
RSVP to Pam Hannon by Nov 7.

Thursday, November 9, 2017
**Team Skills:** Learn about team work principles and develop and design principles, leadership and member skills.
Grad Student and Post-doc Professional Development
Register: mtu.edu/gradschool/seminar
Admin 404  3:00 - 5:00 pm

Monday, November 13, 2017
Gordon Paterson, Biological Sciences

**The toxicokinetics of legacy and emerging pollutants**
Environmental Engineering Seminar Series
GLRC 202  3:00 pm
Monday, November 13, 2017
Prof. Cynthia Ebinger, Tulane University
*Earthquakes within continental plates: How, where, and why it matters*
Earth, Planetary, and Space Sciences Institute (EPSSI) Seminar Series
M&M U113 4:00 pm

Tuesday, November 14, 2017
Rolf Peterson (SFRES) and Candy Peterson
*Citizen Science – Moosewatch on Isle Royale*
Carnegie Museum Natural History Seminar Series
Carnegie Museum in downtown Houghton 6:30 - 8:00pm

Wednesday, November 15, 2017
Geospatial Research Forum on GIS Day
Geospatial Research Facility
Do you use GIS, Remote Sensing or other geospatial technologies in your research or teaching? Join your fellow geospatial researchers at the Michigan Tech Geospatial Research Forum on GIS Day 2017. Come for lunch and a series of "TechTalks" style presentations about current geospatial research from across campus. For lunch and to sign up to present a three-minute Geospatial TechTalk, fill out this [form](#).

Please RSVP by November 3
Contact: Don Lafreniere
GLRC 202 12:00 - 1:30 pm

Monday, November 27, 2017
Jennifer Becker, CEE and Eric Seagren, CEE
*title tbd*
Environmental Engineering Seminar Series
GLRC 202 3:00 pm

Monday, November 27, 2017
Charles Kerfoot, BIO
*Gay Stamp Sand Project (LiDAR/MSS Studies): Mine Tailings Discharges Into Coastal Zones No Longer "Out Of Sight, Out Of Mind"*
Earth, Planetary, and Space Sciences Institute (EPSSI) Seminar Series
M&M U113 4:00 pm
Wednesday, November 29, 2017
Climate Change Negotiations Game
Hosts: UN5400 Climate Science and Policy, Instructor: Sarah Green, Chemistry
Participants will play the roles of negotiators for various countries or regions and will explore how the world can reach the Paris goal of limiting global warming to 2°C above pre-industrial temperatures. See the video here for an overview. If a sufficient number of players register, roles can expand to include journalists, activists, lobbyists, and US states.
GLRC 202 5:30-8:30 pm
Register

Thursday, November 30, 2017
Three Minute Thesis (3MT) Competition
Michigan Tech Graduate Student Government, founded by the University of Queensland
PowerPoint slide submission deadline: Saturday, November 25, 2017 by 11:59 pm
MUB Ballroom B 2:00-6:00 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.

Michigan Space Grant Consortium (MSGC)   
Fellowship Program (for graduate [$5000] and undergraduate [$2500] students; US Citizens)  
Research Seed Grants (one-to-one cost share required)  
Programs - Pre-College Education, Public Outreach, Teacher Training (one-to-one cost share required)  
Michigan Tech Internal Deadline: Friday, November 17, 2017 by 5:00 pm  
MSGC Deadline: December 4, 2017  
Michigan Tech’s Pavlis Honors College coordinates all Michigan Tech proposals. Submission procedures have been posted on the Pavlis Honors College webpage. Download this flyer for detailed Michigan Tech MSGC requirements.

NOTE: Your application package will be reviewed the Pavlis Honors College and Sponsored Programs. Then it will be returned to you with the required support letter, and you will be responsible for uploading your applications into the online submission form, and submitting by December 4.

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

CALL FOR RESEARCH  
MICHIGAN DEPARTMENT OF TRANSPORTATION

Dear Research Stakeholder:  
The Michigan Department of Transportation (MDOT) is requesting your research idea(s) for the upcoming Fiscal Year (FY) 2019-2021 research program. You are encouraged to submit ideas that support MDOT research priorities that were recently approved by the MDOT Research Executive Committee. Please fill out the attached (linked) research idea form and e-mail it to the Research Administration Section (mdot-research@michigan.gov) by December 1, 2017.

As outlined in the research project development process, MDOT executives, Focus Area Managers and technical experts will review the submittals and select research ideas that will be further developed and prioritized over the winter months. The higher priority ideas will be discussed by internal and external stakeholders at spring Program Development Meetings (formerly Research Summit) in May 2018. Further information regarding the Program Development Meetings will be forthcoming in early 2018. Requests for Proposals will be issued in 2019 and 2020 for research projects resulting from this Call for Research.

Any questions can also be emailed to mdot-research@michigan.gov. Additional information regarding MDOT research can be found at www.michigan.gov/mdotresearch. Thank you for your contributions to the MDOT research program.

Sincerely,
Thursday, November 9, 2017
Working Luncheon, MDOT Call For Research Ideas
Hosted by Michigan Tech Transportation Institute (MTTI)
Dillman 309A 12:00 - 1:00 pm
RSVP to Pam Hannon by Nov 7.

Software Funding
Michigan Tech IT
For software above and beyond the funding available through department budgets
Deadline: November 15, 2017

EPA’s 2018 SBIR Phase I
EPA
Deadline: December 19, 2017

Great Lakes Fish and Wildlife Restoration Act
F18AS00012
Department of the Interior, Fish and Wildlife Service
Deadline: January 8, 2017

CZM Projects of Special Merit Competition - FY2018
NOAA-NOS-OCM-2018-2005389
Department of Commerce, NOAA
Deadline: January 5, 2017

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

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
5. Courses for Spring 2018 -

**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.

![Diagram](image-url)

"Piled Higher and Deeper" by Jorge Cham. [www.phdcomics.com](http://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.
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 2, 2017

Great Lakes Connections
International Joint Commission newsletter
October 2017

Michigan Office of the Great Lakes to join Department of Natural Resources
Governor Rick Snyder has issued an Executive Order transferring the Michigan Office of the Great Lakes from the Department of Environmental Quality to the Department of Natural Resources. Executive Order 2017-9 will take effect Dec. 28, and move the functions of the Office of the Great Lakes to the DNR.

Great Lakes Lakewide Action and Management Plans 2017 Annual Reports Available Online
The 2017 Lakewide Action and Management Plan (LAMP) Annual Reports for lakes Superior, Michigan, Huron, Erie and Ontario have just been published.

The 2017 LAMP annual reports highlight accomplishments and progress in achieving LAMP goals during the past year, and identify LAMP-related activities including outreach, monitoring, protection and restoration actions. Lakewide Action and Management Plans are developed and implemented for each Great Lake. Each Lake Partnership facilitates information sharing, sets priorities, and assists in coordinating binational environmental protection and restoration activities as prescribed in the Lakewide Management Annex of the 2012 Great Lakes Water Quality Agreement. For more information, visit Binational.net.

8. Conferences & Webinars

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

Tuesday, November 7, 2017
Dr. Christopher Spence, Environment and Climate Change Canada
Ten years of the Great Lakes Evaporation Network: Progress Made and Opportunities for the Future
Great Lakes Seminar Series
NOAA Great Lakes Environmental Research Laboratory (GLERL)
10:30-11:30 am EST
*Remote participation is available via webinar. To participate remotely, please register at: https://attendee.gotowebinar.com/register/2007397456817558017. Once registered, you will receive a confirmation email containing information about joining the webinar.
November 8–9, 2017
13th Annual MiCorps Conference & Training
Kettunen Center
Kettunen Center - Tustin, MI
Registration Deadline: November 1, 2017

November 7-10, 2017
State of Lake Michigan (SOLM) Conference, and
Annual meeting of the Great Lakes Beach Association
Green Bay, WI
Registration closes Oct. 23

November 13-14, 2017
Fall 2017 NSF Virtual Grants Conference

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 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

9. Open RFPs of ongoing interest

Dear Colleague Letter: NSF Accepting Proposals Related to Hurricane Harvey
NSF 17-128

2017 National Fish Habitat Action Plan
F17AS00016
Department of the Interior, Fish and Wildlife Service
Deadline: Applications are accepted on a rolling basis
2017 Outreach Program Request for Proposals (RFP) for NWS/Office of Water Prediction/National Water Center (NWC) Cooperative and Partners Projects

**Sponsor:** COMET® Outreach Program

- **NWC Cooperative Projects:** COMET anticipates awarding two-four competitively reviewed, 1-2-year projects, each with a budget maximum of $40,000. The deadline for submission of a preliminary synopsis is **October 2, 2017**, with the final proposal due **December 15, 2017**. For more information, please see [NWC Cooperative Projects RFP](#) and the guidelines for NWC Cooperative Project proposal submissions.

- **NWC Partners Projects:** COMET is currently accepting 1-year NWC Partners proposals (budgets limited to $15,000). Proposals will be reviewed as received, and approved submissions will be funded until program resources are expended. For more information, please see [NWC RFP Details](#). It is anticipated that up to six projects will be awarded. For details on these projects, see [NWC Partners Proposals](#).

**United States - Israel Binational Science Foundation**

NSF-BSF Joint Funding Program

Deadlines are dependent on program: October - January

**Cooperative Ecosystem Studies Unit (CESU)**

F18AS00009  
F18AS00010

Department of the Interior, Fish and Wildlife Service

Deadline: November 26, 2017

**Young Faculty Award (YFA)**

Solicitation Number: DARPA-RA-17-01  
Agency: Other Defense Agencies  
Office: Defense Advanced Research Projects Agency

Deadline: December 4, 2017

**USAID FISH RIGHT PROGRAM**

RFA-492-17-000003

Agency for International Development, Philippines USAID-Manila

Deadline: November 15, 2017

**Tribal Support for E-Enterprise for the Environment**

EPA-OCFO-OEE-17-01

Environmental Protection Agency

Deadline: November 24, 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-OGWWD-17-01

Environmental Protection Agency

Deadline: December 4, 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 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

TAT Grant Program FY18
Technical Assistance and Training (TATFY18)
Department of Agriculture, Utilities Programs
Deadline: January 2, 2018

Solid Waste Management Grant Program
SWMFY2018
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, 2017

Fiscal Year 2018 NMFS-Sea Grant Fellowships in Marine Resource Economics
NOAA-OAR-SG-2018-2005450
Department of Commerce, NOAA
Deadline: January 26, 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

**FY18 Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science and Technology**

N00014-18-S-B001
Department of Defense, Office of Naval Research
Deadline: September 28, 2018

**FY 2018 – 2020 - Broad Agency Announcement (BAA) Announcement Type: Initial**

NOAA-NFA-NFAPO-2018-2005418
Department of Commerce, NOAA
Deadline: September 30, 2020

**NSF Announcements:**

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<tr>
<th>Program Nbr</th>
<th>Title</th>
<th>Proposal Deadline</th>
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<td>16-503</td>
<td>National Science Foundation Research Traineeship Program (NRT)</td>
<td>next solicitation anticipated in Fall 2017</td>
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<tr>
<td>17-512</td>
<td>Division of Environmental Biology (core programs) (DEB)</td>
<td>Pre-Proposal: Jan. 23, 2018</td>
</tr>
<tr>
<td>PD</td>
<td>Title</td>
<td>Submission Dates</td>
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</table>
| 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                                                        |
| 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             | November 15, 2017  
December 15, 2017  
Accepted Anytime |
| 15-536 | Research Experiences for Teachers (RET) in Engineering and Computer Science | October 10, 2017 |
| 15-600 | Integrated Earth Systems (IES)                                 | November 14, 2017                                                               |
| 18-503 | Dynamics of Coupled Natural and Human Systems (CNH)          | January 23, 2018                                                                |
| 16-506 | Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML) | December 8, 2017 |
| 15-568 | Earth Sciences Postdoctoral Fellowships (EAR-PF)           | January 9, 2018                                                                 |
| 15-504 | Major Research Instrumentation Program (MRI)                 | January 10, 2018  
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

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<tr>
<th>APPENDIX</th>
<th>PROGRAM</th>
<th>NOI/Step 1 DUE DATE [2]</th>
<th>PROPOSAL DUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.1</td>
<td>Earth Science Research Program Overview</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>A.8</td>
<td>Supporting UN Sustainable Development Goals 14 and 15 in the Context of Climate Variability and Change</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>A.9</td>
<td>ECOSTRESS Science Team</td>
<td>TBD</td>
<td>TBD</td>
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<td>A.24</td>
<td>DISCOVR Science Team</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>A.29</td>
<td>Rapid Response and Novel Research in Earth Science</td>
<td>N/A</td>
<td>Rolling submissions through 3/29/2018</td>
</tr>
<tr>
<td>A.34</td>
<td>Earth System Science Pathfinder (ESSP) Venture-class Science Investigations: Earth Venture Suborbital-3</td>
<td>Comments due by Oct 31, 2017</td>
<td>TBD</td>
</tr>
<tr>
<td>A.39</td>
<td>Earth Science Applications: Health and Air Quality</td>
<td>09/01/2017</td>
<td>11/17/2017</td>
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<tr>
<td>A.40</td>
<td>Earth Science Applications: Disaster Risk Reduction and Resilience</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>A.42</td>
<td>Advancing Collaborative Connections for Earth System Science</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>E.2</td>
<td>Topical Workshops, Symposia, and Conferences</td>
<td>N/A</td>
<td>Rolling submissions through 03/29/2018</td>
</tr>
</tbody>
</table>

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:
11. Student Research Grants (December 1) and Travel Grants (November 27)

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

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;

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

-------- Forwarded message --------
From: Amber Wutich <Amber.Wutich@asu.edu>
Date: Thu, Nov 2, 2017 at 4:47 PM
Subject: New postdoc position - USDA funded study of water & stakeholder engagement
To: SEA-L@list.kennesaw.edu

I am hiring, along with my collaborator Sarah Porter (Director, Kyl Institute for Water Policy), a postdoctoral researcher for a new USDA-funded study of water, agriculture, and community and stakeholder engagement. This is a large-scale collaboration with ASU, Penn State, and U Nebraska. The postdoc would be based in Phoenix, AZ. Please reach out if you are interested in applying!

Postdoctoral Research Associate Morrison Job #12187
Arizona State University Morrison Institute
first close date will be November 29, 2017

Best, Amber Wutich
Professor of Anthropology
Director, Center for Global Health
School of Human Evolution & Social Change
Arizona State University

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Postdoctoral Position in Watershed Modelling
The Ohio State University
Posted: Oct 13, 2017

Postdoctoral Position in Coastal Ecosystem-Based Management
University of Maryland Center for Environmental Science (UMCES)
Application review begins: December 1, 2017
The University of Maryland Center for Environmental Science (UMCES) is seeking a post-doctoral Assistant Research Scientist to work on a funded 2-year project in Ecosystem-Based Management (EBM). This unique position, coordinating with a multidisciplinary team of research leaders in EBM involving oceanographers, fisheries scientists, social scientist and science policy experts, provides an opportunity to work at the intersection of science and policy on fundamentally challenging ecosystem questions. The successful candidate will interact with researchers, planners and policy makers in several regions of the US to help identify and address the significant information gaps that limit implementation of an ecosystem approach. The position will involve literature research, workshop development and stakeholder surveys to create implementation strategies for enabling EBM in regional coastal ecosystems. The appointee will have opportunities to collaborate with scientists across UMCES (www.umces.edu). A Ph.D. in Marine Science, Environmental Policy or a related field is preferred. Salary will be commensurate with experience. Full university health and retirement benefits are available.

Review of applications will begin on December 1, 2017. Applications should include CV, copies of up to 3 publications, statement of research interests, one-page summary of Ph.D. thesis, names/addresses of four references.

For further information contact Mike Roman at postdoc-roman@umces.edu. Applications will be reviewed until position is filled.

UMCES is an AA/EOE institution. Individuals with disabilities, veterans, women, and minorities are encouraged to apply.

**IAGLR Job Board**
Job Opportunities in the Great Lakes

**The Stewardship Network – Job Postings**

**State of Minnesota**
Hydrologist & Natural Resources positions
[https://statejobs.doer.state.mn.us/JobPosting](https://statejobs.doer.state.mn.us/JobPosting)
Search on Job Grouping=Environmental Sciences
Or Department = Pollution Control Agency  (includes summer jobs for students)

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

**Positions posted on CUAHSI web site**
(Careers/fellowships/post-docs/research assistantships/faculty positions)

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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
**Anchor QEA Scholarship**
Scholarship amount: $500 - $6000
Majors in the following areas:
- Fisheries
- Environmental Sciences
- Planning/Land Use
- Landscape Architecture
- Coastal, Geotechnical, Hydraulic, or Environmental Engineering (with an aquatic/waterfront emphasis)
Applications due: Friday, November 3, 2017

**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