

EAPS WEEKLY NEWSLETTER

April 1, 2024

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EAPS MEETINGS & EVENTS

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NEWS/OPPORTUNITIES AT PURDUE

MS AND PHD EAPS STUDENTS BROADEN YOUR GRAD EXPERIENCE

For those MS and PhD students in EAPS that would like to broaden their graduate experiences while at Purdue, EAPS is affiliated with the Computational Interdisciplinary Graduate Programs (CIGP) at Purdue. While working toward a graduate degree in EAPS, graduate students can also have a concentration (specialization) in the area of Computational Science and Engineering (CSE). For more information, [click here](#). A short video about the CIGP/CSE program can be found [here](#).

Spring Application Deadline: March 1

Fall Application Deadline: October 1

EAPS COLLOQUIA

RAY WELLS
RESEARCH GEOLOGIST AT USGS
 Thursday, April 4, 3:30 pm HAMP 1252
 Host: Erin Donaghy
[EAPS calendar](#)

PHD DEFENSE – MELISSA CASHION

Public portion of Melissa's PhD Defense will take place at 9:15 AM on Wednesday 4/3 in HAMP 3201. Her dissertation is entitled "Formation and evolution of outer solar system components." Advisor: Brandon Johnson

PRELIMINARY – ASHIKA CAPIRALA

Ashika Capirala will be presenting the public portion of her preliminary exam next Friday, **April 5th at 9am in HAMP 2102**. Ashika's talk is titled "The Co-Evolution of Physical and Biogeochemical Ocean Dynamics on Early Earth and Earth-like Worlds." Advisor- Stephanie Olson

PHD DEFENSE – ERIN DONAGHY

Erin Donaghy will be defending her dissertation, "**The Role of Cenozoic Oceanic Plateau Collision in the Tectonic Growth of Western North America.**" Public portion of the defense during Gaggle at 10:30 AM in HAMP 2201. Advisors: Mike Eddy and Ken Ridgway



Earth Atmospheric Planetary Sciences

Join Purdue's Earth, Atmospheric, and Planetary Sciences at

SPRING FEST 2023

SATURDAY, APRIL 13TH
PURDUE MEMORIAL MALL, BOOTH 29

9:00-10:30 AM 10:30 - 12:00 PM

Build Your Own Water Filter! Create and Capture CO2! Create Colorful Craters! Make Your Own Volcanic Eruption!

Questions? Email: curti104@purdue.edu

THREE MINUTE THESIS

The Graduate School's annual [Three Minute Thesis \(3MT\)](#) Research Communication Competition is right around the corner. This year, 3MT will take place on April 09, 2024, at 7:00 p.m. and will be hosted in Fowler Hall, located in the Stewart Center.

Admission for this event is free and is open to the public. Please encourage students, faculty, and staff to attend and support competitors from your area. Since this competition is open to the public, please also encourage alumni and community members to come check out the amazing graduate research currently being conducted at Purdue. **Those interested in attending should register at the following link!**

Registration Link: <https://purdue.link/3mt2024>

Grad Students Competing on April 9:

Bhakti Chavda: Liberal Arts
Jose Capa Salinas: Engineering
Vashi Negi: Science
Thomas Clarke: Science
Paul Knudsen: Poly Technic
Lynn Krushinski: Science

Jeanine Arana: Agriculture
Athanasios "Thanos" Klidas: Science
Kinnari Arte: Pharmacy
Kevin Alessandro Bautista: Engineering

EAPS GRAD STUDENT RESEARCH OPPORTUNITIES

If you are interested in an EAPS grad research opportunity, [click here](#) for more information.

PUBLICATIONS

- Benjamin P. Weiss, Elias N. Mansbach, Joseph L. Carsten, Kyle W. Kaplan, Justin N. Maki, **Roger C. Wiens**, Tanja Bosak, Curtis L. Collins, Jennifer Fentress, Joshua M. Feinberg, Yulia Goreva, Megan Kennedy Wu, Douglas E. Klein, Rachel E. Kronyak, Robert C. Moeller, Nicholas Peper, Adriana Reyes-Newell, Mark A. Sephton, David L. Shuster, Justin I. Simon, Kenneth H. Williford, Kathryn W. Stack, and Kenneth A. Farley (2024) Orienting Cores on Mars Drilled by the Perseverance Rover. *Earth & Space Science* 11, e2023EA003322. <https://doi.org/10.1029/2023EA003322>.
- Fink, J., Tremblay, M.M.**, Tobin, T.S., Stockli, L.D., Stockli, D.F., and **Ickert, R.B.**, 2024, Diagenesis of fossil gar fish scales with implications for geochronology and paleoenvironmental applications. *Geochimica et Cosmochimica Acta*, doi: <https://doi.org/10.1016/j.gca.2024.03.004>
- Zhao, J., Qiu, J., **Harbor, J.**, Guo, W., **Caffee, M.**, Ji, H., Chen, J., He, X., 2024. 10Be surface exposure dating of glacier fluctuations on the eastern slope of Mount Geladandong, central Tibetan Plateau. *Quaternary International* 679, 25-35. <https://doi.org/10.1016/j.quaint.2023.12.004>
- W. Li, L. Xu, Y. Wang, N. Riemer, K. Adachi, Z. Shi, D. Zhang, Z. Zheng, **A. Laskin**. Microphysical properties of atmospheric soot and organic particles: Measurements, modeling, and impacts. *NPJ Climate and Atmospheric Science*, 7, 65, (2024). <https://doi.org/10.1038/s41612-024-00610-8>.

OUTREACH NEWS

If you or your group has worked with or helped with an activity for K-12 students or teachers, please fill out the **departmental outreach activity form**.

<https://bit.ly/EAPSOOut>

Social sites:

[Twitter](#)

[Instagram](#)

[Facebook Superheroes of Science](#)

[EAPS departmental outreach web page](#)
SUPERHEROES OF SCIENCE

Please help us by subscribing and sharing our podcast and our [YouTube](#) channel!

On Apple: https://bit.ly/SOS_apple

On Spotify: https://bit.ly/SOS_spotify

On Amazon: https://bit.ly/Superheroes_amazon

MEETINGS/EXPOS/ OPPORTUNITIES OUTSIDE OF PURDUE

LAWRENCE BERKELEY NATIONAL LAB - INTERNSHIPS

Lawrence Berkeley National Lab (LBNL) has opened applications for our Ingenuity Internship Program (<http://go.lbl.gov/ingenuity>) again for 10 weeks during Summer 2024.

The Ingenuity internship program is focused on cultivating a diverse, talented next-generation workforce in the field of geologic nuclear waste disposal and will be sponsored again by the U.S. Department of Energy's Office of Nuclear Energy after the success of our inaugural program last summer.

Given the nature of the internship projects (ranging from experimental work to simulations to machine learning), they are interested in students from the earth, environmental and/or geosciences, as well as computational sciences, nuclear engineering, and other related disciplines.

[Ingenuity Internship Website Link](#)

[Summer 2024 Application Link](#)

Deadline for application is **April 7, 2024**.

SHADES FIELD TRIP – APRIL 13, 2024

Professional Geologists of Indiana and All

Universities Field Trip 2024

Shades State Park

Event Open to Everyone interested in the Geologic History of this Spectacular Site

Hike through deep canyons on rugged trails to see and discuss the regional Mississippian-Pennsylvanian unconformity and some spectacular cross bedding and other depositional features and weathering features in the Mansfield sandstone. There is outstanding geomorphology related to the combination of long time erosion and more recent glacial melt water related erosion.

Saturday, April 13 meet at 9:30 AM to 3:00 PM at **Shades SP** at the **Hickory Parking Lot**. Park **entry fee** applies, **Waivers** will be signed before hike so **arrive on time**. Bring water, snacks and a sack lunch. 7751 S 890 W, Waveland, IN 47989

[More info](#). Contact [Doug Schmitt](#) for more details.

WATERSHED SCHOLARS PROGRAM

For students interested in pursuing a Master's degree in biology, chemistry, civil engineering, environmental sciences, or geography with an emphasis in Watershed Sciences at Southern Illinois University Edwardsville (SIUE). Selected students will receive a tuition waiver and \$10,000 scholarship for each of the two years they are in the program, as well as funding to attend conferences and to purchase equipment and tools needed to complete their research. In addition, students will participate in thesis and research workshops, career panels, scientific and technical seminars, and mentoring from a variety of sources. Eligible students are required to have an income of \$25,515 or less while a student at program start date (Fall 2024). Scholars must be U.S. citizens, permanent residents, or admitted refugees. Interested individuals can read more about the program [here](#). SIUE is located near the confluence of the Mississippi and Missouri Rivers and offers opportunities to study watersheds at multiple scales and from rural to urban settings. The SIUE campus is on 2,600 acres of beautiful rolling hills and woodlands, on the bluff of the Mississippi floodplain. Students applying to SIUE master's programs in [Biological Sciences](#), [Chemistry](#), [Civil Engineering](#), [Environmental Sciences](#), or [Geography & GIS](#) are eligible to apply for the Watershed Scholars program. Students with an interest in sustainable watersheds and backgrounds in biology, chemistry, engineering, ecology, geography, geology, environmental sciences, fisheries sciences, wildlife management, natural resources, and geosciences, are encouraged to apply.

After being admitted to the SIUE graduate program, potential scholars must then apply to the [Watershed Scholars Program](#) (or they should apply to both the graduate program and scholarship program at the same time). Potential scholars will be asked to provide a written statement (250-500 words) describing their interest in watershed science research and, if applicable, any prior relevant research experience.

Applications are being considered on a rolling basis, but students should apply before April 1 for priority consideration. Further information, including

details on how to apply, can be found on the [Watershed Scholars website](#). If students have any questions, please encourage them to contact the Watershed Scholars project lead, Dr. Adriana E. Martinez at adrmart@siue.edu. This program is funded by the National Science Foundation DUE Award #2130471.

**UNIVERSITY OF NOTRE DAME'S
SOCIETY OF SCIENCE FELLOWS**

At the University of Notre Dame, the Society of Science Fellows is a Postdoctoral Fellowship Program established by the Dean of the College of Science to support highly motivated and accomplished individuals who represent the best of the next generation of scientists. These prestigious fellowships are designed for early-stage scientists who are bound for research intensive careers in research universities, institutes or industries. The Society Fellows will be initially appointed for two years, receive a stipend corresponding to the NRSA NIH pay scale for postdoctoral fellows and individualized support from College of Science Director of Postdoctoral Studies. Each fellow will work with the director of postdoctoral studies to identify a suitable primary research mentor from the five departments in the College of Science. Additional co-mentors can also be appointed, and must have an appointment at the University of Notre Dame. The primary research mentor will provide research space, supplies, and travel support. [More info. Deadline April 30.](#)

NSF NCAR | UCAR | UCP STUDENT OPPORTUNITIES

NCAR | UCAR | UCP offer many different summer experiences for students in Earth System Science. Labs and Programs have unique opportunities with separate applications and different deadlines. We invite you to explore the compiled list below and apply to opportunities you find interesting.

[UCAR Next Generation Fellowship](#)

The UCAR Next Generation graduate Fellowship is a prestigious, multi-faceted opportunity to explore the interplay between the areas of scientific research, diversity and inclusion, and public policy within the field of Earth Systems Science. Fellows engage with, and learn from, UCAR's leaders in these three arenas while participating in dedicated professional development and leadership training opportunities.

Application will open in January 2024.

[UCAR Student Opportunities Website](#)

Check the opportunities website for other opportunities that are not currently accepting applications but may during other times of the year.

**POST-DOC OPPORTUNITY - AIR FORCE SCIENCE
& TECHNOLOGY FELLOWSHIPS**

The National Academies of Sciences, Engineering, and Medicine administers postdoctoral and senior research awards at the U.S. Air Force Research Laboratory (AFRL), the U.S. Air Force Institute of Technology (AFIT), and the U.S. Air Force Academy (USAFA) under the [Air Force Science & Technology Fellowship Program \(AF STFP\)](#).

Seeking highly qualified candidates who are U.S. citizens and hold, or anticipate earning, a doctorate in a variety of fields of science or engineering.

Application deadline dates (four annual review cycles): February 1, May 1, August 1, November 1

Awardees have the opportunity to:

- Conduct independent research in an area compatible with the interests of the Air Force laboratories
- Devote full-time effort to research and publication
- Access the excellent and often unique Air Force research facilities
- Collaborate with leading scientists and engineers
- Awardee benefits:
 - Base stipend starting at \$76,542; may be higher based on experience
 - Health insurance (including dental/vision), relocation benefits, and a professional travel allowance

Applicants should contact prospective AFRL, AFIT and USAFA Research Adviser(s) at the lab(s) prior to the application deadline to discuss their research interests and funding opportunities.

For detailed program information, to search for AFRL, AFIT, and USAFA Research Opportunities, and to contact prospective Research Adviser(s), visit www.nas.edu/afstfp.

**AWG BRUNTON AWARD AND
BRUNTON FIELD PROJECT AWARD**

The AWG Brunton Award and Brunton Field Project Award promote the future of field mapping and data acquisition for the upcoming generation of people whose gender identity has been historically underrepresented in the geosciences. Applicants should have a passion for and exceptional experience with field work, including internships, field camp, coursework with a field-based research component, or research.

The AWG Brunton Award has been active for >20 years and provides Brunton compasses to 1–2 awardees each year. The AWG Brunton Field Project Award started in 2022 and awards a Brunton compass and up to \$1000 to support field activities to each of 1–2 awardees each year. [Learn more here](#). **Deadline for entry is Dec. 15th of each year.**

URANUS FLAGSHIP WORKSHOP

May 21-23, 2024

NASA Goddard Space Flight Center, Greenbelt, MD

[Meeting info](#)

8th INTERNATIONAL CONFERENCE ON MARS POLAR SCIENCE AND EXPLORATION

July 8-12, 2024

Whitehorse, Yukon, Canada

[Meeting info](#)

METSOC 2024

July 28-Aug. 2, 2024

Brussels, Belgium

[Meeting info](#)

POSITIONS AVAILABLE- CAREER OPPORTUNITIES

UNIVERSITY OF OK – AVIATION METEOROLOGY ASSOC. PROFESSOR

The School of Meteorology and School of Aviation at the University of Oklahoma have an open tenure-track position at the Associate Professor level focused on Aviation Meteorology. If you or someone you know are interested, the [full announcement is here](#). Reach out to the search chair Dr. Jens Redemann (jredemann@ou.edu) with any questions.

MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY MARSEILLE, FRANCE – POST DOC

2-year postdoc position in modelling the habitability of the atmosphere (applied to Earth's atmosphere and exoplanets). The position would suit someone with an interest in habitability/astrobiology, theoretical approaches to environmental microbiology, and who has strong numerical skills (ecosystem, habitability, bioenergetics modelling). The post is based at the Mediterranean Institute of Oceanography, in Marseille, France, with the

possibility for remote/flexible working arrangements. [More details](#).

WOOSTER – VISITING ASSISTANT PROFESSOR

Wooster is hiring a 2-year Visiting Assistant Professor in Environmental Science. We are open to any expertise in the environmental sciences as long as the candidate can teach GIS. Next year, we will be developing an Environmental Science major – this person would play a critical role in that process and the administration has been supportive of our plan to convert this position to tenure track.

This is a great opportunity for an early career scientist to launch a future in the liberal arts. Our small, supportive department fosters a vibrant environment for students, staff, and faculty to thrive. We are looking for someone who is passionate about teaching and eager to contribute to our intellectual and inclusive community. [Full details and application instructions can be found here](#).

UCHICAGO – TWO POSITIONS AVAILABLE

- Assistant Instructional Professor (<https://apply.interfolio.com/136612>)
- Senior Instructional Professor (<https://apply.interfolio.com/137371>).

These are career-track (although not tenure-track) teaching positions.

FULL-TIME WEEKEND METEOROLOGIST/WEEKDAY REPORTER - WVVA TV IN BLUEFIELD, WV.

An immediate opening for a full-time weekend meteorologist/weekday reporter (for weather/science stories). [Link](#)

TENURE TRACK METEOROLOGY FACULTY POSITION - VALPARAISO UNIVERSITY

We are excited to announce an opening for a Tenure Track Assistant Professor of Meteorology at Valparaiso University starting in August 2024. We especially need someone for mesoscale meteorology at the undergraduate level.

[Apply here](#).

DePAUW SEEKING PART TIME INSTRUCTOR

The department of Geology and Environmental Geoscience at DePauw University is looking for a part-time instructor to teach an undergraduate course in Hydrogeology in next spring semester. This is a great opportunity for a graduate student to get some teaching experience in a Liberal Arts setting (at least a Master's degree is required). [Apply here](#).

NYS MESONET FIELD TECHNICIANS

NYS Mesonet is hiring a field technician position to maintain and repair 126-site standard network and 85 subnetwork sites. Competitive pay + benefits, learn more and [apply here](#).

MULTIPLE POSITIONS OPEN WITH ENVIROFORENSICS

EnviroForensics is hiring! We're looking for motivated and collaborative individuals to join us as a Project Manager (Indianapolis or Louisville), Staff Professional (Indianapolis), Field Professional (Indianapolis), and Field Technician (Indianapolis). If you're interested in joining our team, visit our Careers and apply today! [Click here to apply](#)

ASSISTANT PROFESSOR OF ENVIRONMENTAL & GEOSPATIAL SCIENCES - WESTERN KENTUCKY UNIVERSITY

The Department of Earth, Environmental, & Atmospheric Sciences (EEAS) at Western Kentucky University is seeking highly qualified applicants for a 9-month tenure-track Assistant Professor of Environmental & Geospatial Sciences position. [Learn more here](#).

METEOROLOGIST POSITIONS AVAILABLE TEGNA

Multiple [meteorology positions](#) are open with TEGNA.

PURDUE ENVISION CENTER (UNDER ITAP) RECRUITING EAPS STUDENTS

The Envision Center is recruiting EAPS students with background and interest in weather visualization. Details on the job opening can be found [here](#).

POSITIONS AVAILABLE IN METEOROLOGY AND ATMOSPHERIC SCIENCE

[View current career listings](#)

AGI GEOSCIENCE JOB CENTER

[Check listings here](#).

GRADIENT CORP MULTIPLE OPPORTUNITIES

Please feel free to contact [Qian Zhang](#) if you are interested in applying and/or have any questions about the company and the opportunities.

NATIONAL WEATHER SERVICE POSITIONS AVAILABLE

[Check here for available positions](#) with the National Weather Service.

NEWSLETTER INFO

IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter is used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Material for inclusion in the newsletter should be submitted to [Cheryl Pierce](#) by **5:00pm on Thursday of each week for inclusion in the Monday issue**.

For answers to common technology questions and the latest updates from the EAPS Technology Support staff, [click here](#). As an additional resource for information about departmental events, seminars, etc., see our [departmental calendar](#).