

EAPS WEEKLY NEWSLETTER

September 30, 2024

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EAPS MEETINGS & EVENTS

[PURDUE REGISTRAR CALENDARS](#)

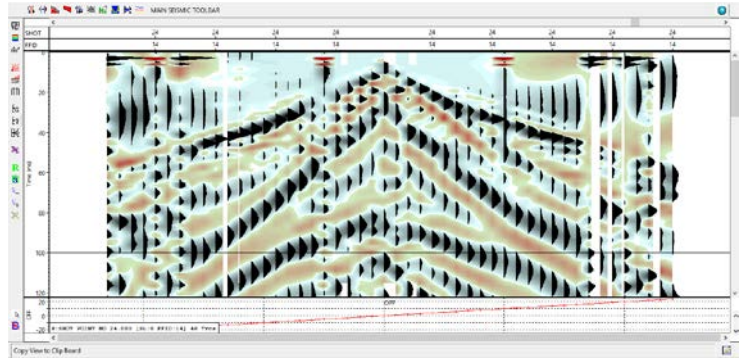
[EAPS SEMINARS AND EVENTS CALENDAR](#)

[EAPS K-12 OUTREACH CALENDAR OF EVENTS](#)

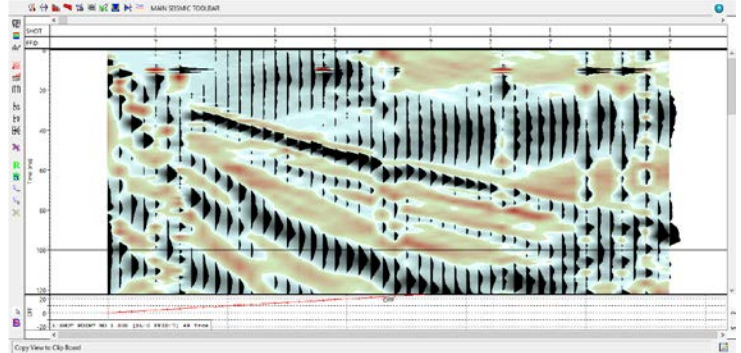
[REPORT YOUR OUTREACH AND ENGAGEMENT ACTIVITIES](#)

CONGRATS, KUDOS, COOL STUFF, AND THUMBS UP!

- Congratulations to Ph.D. student Moshammat (Moe) Mijjum for being awarded a 2024 Wiley Award by the Council of the Meteoritical Society!
- Congratulations Michael Vermeuel for being awarded the AGU's 2024 James R. Holton Award!
- Congratulations Ali Bramson for being awarded the AGU's 2024 Ronald Greeley Early Career Award in Planetary Sciences!
- Doug Schmitt reports student data collected last Thursday a Purdue as part of an Honors project. Check it out! Summary for Refraction Test
 - September 26, 2024. On lawn in front of Johnson Hall of Nursing
 - 48 takeouts, 15 Hz phones @ 1 m spacing.
 - Data is organized in Vista project Ivanan_Refraction_Vista.vwn
 - Shot at station 24 in middle of line, stack of 5.



○ Shot at station 1 at S end of line



NEWS/OPPORTUNITIES AT PURDUE

EAPS SEMINAR – LANCE BOSART

Thursday, October 3rd, 3:30 pm, HAMP 1252

Lance Bosart is a Distinguished Professor Emeritus from the University of Albany/SUNY

Host: Prof. Lei Wang

PURDUE GIS DAY 2024

Purdue Libraries and School of Information Studies invites you to attend and present at Purdue GIS Day 2024: Exploring GeoAI on **Thursday, November 7, 2024** in STEW 214.

Take your research to the next level by presenting it to leading scholars and members of the broader GIS community. Undergraduate and graduate students can submit proposals for a poster presentation and/or a 5-minute lightning talk on any GIS-related topic. This is a great opportunity to practice public speaking and add noteworthy skills to your resume. The best of the student posters and presentations will receive cash awards.

The conference will also feature keynote speaker Gregory Brunner, an experienced scientist, award-winning professor, and principal data scientist at Esri—global market leader in GIS software, location intelligence, and mapping. He will be speaking about the rapid growth of the AI model ecosystem and the potential impact it has and will have on GIS in his talk titled, “The Burgeoning AI Model Ecosystem and Its Potential Impact on GIS.” Please submit your proposal by September 30, 2024 which will also get you registered for the conference to receive a free T-shirt and to attend the panel discussion lunch. [Submit proposals and register for the event](#)

ASTRONOMY ON TAP

1 October The Spot Tavern (21+)
7-9 Pm 406 S 4th St Lafayette

Featuring Purdue Professors

Dr. Maxim Lyutikov
The Biggest Ones in the Universe: Exciting Life of Clusters of Galaxies

Dr. Cauê Borlina
Meteorites, Magnets and the Formation of Planets

Come learn about astronomy in a fun, casual setting! Featuring informal talks by professional scientists, fun trivia, prizes, and beer!

Interested in speaking?

Twitter: @AoT_CoA

DEFENSE CIVILIAN TRAINING CORPS - PURDUE UNIVERSITY

Purdue's Defense Civilian Training Corps (DCTC) is a new program that will build civilian careers in the Department of Defense relating to acquisition, digital technologies, critical technologies, science, engineering, and finance and more. The Defense Civilian Training Corps is a scholarship-for-civilian-service award.

EAPS GRAD STUDENT RESEARCH OPPORTUNITIES

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

FIESTA DE ALMUERZO

We've just started Hispanic Heritage Month, and we're so excited to be back with our annual **Fiesta de Almuerzo** to honor and celebrate the Latino community here in EAPS!

This event will be held on **Wednesday, Oct. 9th from 1:30 - 3:00 pm in Wood Commons** (lobby in the front entrance of HAMP). There will be free food provided by Latine-owned restaurants along with cultural dishes made by some of our very own students!

Do **YOU** want to help out and contribute to the festivities?

This year, you have the opportunity to sign up to bring materials to help make this event a success.

[Please sign up here](#) - we're mainly asking for items like plastic cutlery, napkins, and drinks! Multiple people can sign up per item - we need enough for 50 people.

Don't have time to shop? You can also help us financially by sending us \$5-10 on Venmo (@planetarilyis) to aid in our catering costs!

We are elated for the chance to bring our culture to EAPS again and celebrate our roots! We had so much fun last year and we hope that you'll join us again.

Cheers,

Lisette Melendez, Santa L. Perez-Cortes, Giovanni Bacon, and Mariana Blanco-Rojas
FdA Planning Committee



OUTREACH NEWS

If you have not done your STEM Career video yet please set up a time with Steven to record it. It should only take you ~10 minutes to record the video.

[Here is a great example from Jonathan Delph](#)

Link to the repository with all of the recorded STEM Career videos: <https://purdue.link/STEMrepository>

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](#).

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

Upcoming Outreach Events:

Purdue Homecoming

- Date: Saturday 9/28
- Location: Outside of HAMP building in the College of Science tent
- Time: Morning before game
- Needs:
 - volunteers to run stations
 - Steven will NOT be available this day. So, groups/persons will need to get the materials for activities prior to the day.

Wonders on the Wabash

- Dates:
 - Tuesday, September 24
 - Wednesday, September 25
 - Thursday, September 26
 - Tuesday, October 01
 - Wednesday, October 02
- Location West Lafayette
- Time: This varies depending on what you sign up for.
- Needs
 - *All-day raft instructor* - You and another adult will be in a raft with approximately 6 to 8 - 6th grade students.
 - *AM set-up at Davis Ferry* - North 9th Street - 6:30 AM - Early morning set-up is getting rafts and equipment ready for the day.
 - *Tapawingo Park - PM where needed* - 12:30 PM - *Help get lunch set-up and post trip equipment.*
 - *All-day on land where needed* - 9:00 AM - General help
 -
- More information: <https://www.tippecanoe.in.gov/969/Volunteer-Information>
- *Sign up for this early as they have to do a background check on all volunteers*

Planetary Fact of the Week (Universal Facts!)

- Dates: Wednesday, September 11th & Ongoing
- Location: HAMP 2201
- Time: During Crater Cafe 10:30 am (*or schedule another day/time with Steven*)
- Needs: We are recording fun facts about the universe. These videos need to be under 1 minute so make it a quick fact, not a story!

Rock of the Week

- Dates: Ongoing
- Location: HAMP 2270 (Superheroes of Science HQ)
- Time: During GaGgle 10:30 am (*or schedule another day/time with Steven*)
- Needs: We are recording fun facts about rocks, minerals, or fossils. These videos need to be under 1 minute so make it a quick fact, not a story!

Bring your favorite rock or send Steven a photo of one that you are going to talk about!

Tabletop Gaming Night

- Dates: First Friday of each Month (September - May): 6-9 pm
- Location: HAMP 2244
- Needs: No "needs" here. It's not even an official Dept event. It's just a bunch of us getting together to play board games. Everyone is welcome.

PUBLICATIONS

- Singer, B.S., Moreno-Yaeger, P., Townsend, M., Huber, C., Cuzzone, J., Edwards, B.R., Romero, M., Orellana-Salazar, Y., Marcott, S., Breunig, R., Ferrier, K., Scholz, K., Coonin, A.N., Alloway, B.V., **Tremblay, M.M.**, Stevens, S., Fustos-Toribio, I., Moreno, P.I., Vera, F., and Amigo, A., 2024, New perspectives on ice forcing in continental arc magma plumbing systems. *Journal of Volcanology and Geothermal Research*, 108187. doi: 10.1016/j.jvolgeores.2024.108187
- **Delph, J.R.**, Darin, M.H., Whitney, D.L., Cosca, M.A., Teyssier, C., Kaymakci, N., Eken, T., Reid, M.R., Beck, S.L., 2024. Deep Lithospheric Controls on Surface Deformation and Seismicity around the East Anatolian Fault Zone and A3 Triple Junction. *GSA Today* 34, 4–12. <https://doi.org/10.1130/GSATG584A.1>
- **Pamerleau, I.F., M.M. Sori,** and J.E.C. Scully (2024), [An ancient and impure frozen ocean on Ceres implied by its ice-rich crust](#), *Nature Astronomy* 8.

MEETINGS/EXPOS/ OPPORTUNITIES OUTSIDE OF PURDUE

NATGEO REQUEST FOR PROPOSALS

The National Geographic Society (NGS) is pleased to announce a Request for Proposals (RFP) for academic researchers investigating topics related to geography education in Indiana. Awards of up to \$5,000 are available to support research related to geography education, including but not limited to: geographic thinking and learning, the [Explorer Mindset](#), environmental education, geographic information systems (GIS), and citizen science. Research may investigate geographic education from any discipline, or be interdisciplinary in nature, and may explore formal or informal learning environments. Research that illuminates barriers

and/or advances access for those farthest from opportunity is encouraged.

Eligibility- Researchers from public and independent institutions of higher education in the state of Indiana are eligible to apply. Applicants from historically and currently underrepresented and underserved populations are encouraged to apply. The award can support a broad range of researcher audiences including all graduate students (including thesis or dissertation support), and faculty of all ranks.

Potential Research Outputs- Deliverables could include a range of research results including but not limited to white papers, empirical research, literature reviews, dissertations, and theses.

Restrictions-

- Funds must be used to strengthen geographic education in Indiana
- The award is intended for non-commercial research
- Institutional overhead/indirect costs not allowed
- Funds must be distributed by the end of 2024 and should be used in 2025

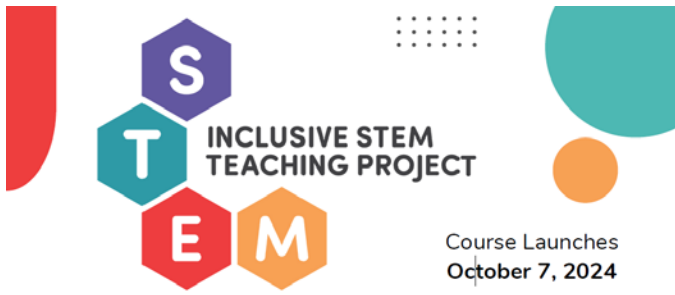
A final research product is required and preliminary research outputs should be produced by the end of the 2025 academic year. There may also be opportunities to present research to NGS staff. Instructions for Submitting Application Please complete [this application form](#) by **September 30, 2024**. Please contact Carley Lovorn, clovorn@ngs.org, if you have questions.

SCGSR GRADUATE STUDENT PROGRAM

The SCGSR 2024 Solicitation 2 (2024 S2) is now open for applications. You can see the solicitation at <https://science.osti.gov/wdts/scgsr/>. The online application can be accessed at <https://apps.ornl.gov/SCGSR/Account>. The online application will last for 12 weeks and will close on **November 6, 2024, at 5:00PM ET**. Three items for your attention: Please direct all questions to sc.scgsr@science.doe.gov.

UCAR STUDENT OPPORTUNITIES WEBSITE

Check the opportunities website for opportunities at UCAR.



The **Inclusive STEM Teaching Project** is a 6 week course designed to advance the awareness, self-efficacy, and the ability of faculty, postdocs, and doctoral students to cultivate inclusive STEM learning environments for all their students and to develop themselves as reflective, inclusive practitioners.

Key Features

- Embodied Case Studies
- Local Learning Communities
- Affinity Spaces
- My Inclusivity Framework



REGISTER HERE

The primary sponsor for the Inclusive STEM Teaching Project is the National Science Foundation (NSF), Directorate for Education and Human Resources (EHR), and Division of Undergraduate Education (DUE). This project is supported under DUE grants: 1821684; 1821571; 1821528; 1821510; 1821574. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.*



The 18th Annual Ecological Sciences and Engineering Symposium

Fowler Hall, Stewart Center October 2, 2024 at 6 pm

Dan Egan for many years covered the Great Lakes for the Milwaukee Journal Sentinel. Now he writes occasional long-form pieces about climate change for national media outlets, including the New York Times, and is a senior water policy fellow at the University of Wisconsin-Milwaukee's School of Freshwater Sciences. He is the author of **THE DEVIL'S ELEMENT: PHOSPHORUS AND A WORLD OUT OF BALANCE** and the New York Times best seller **THE DEATH AND LIFE OF THE GREAT LAKES**. Twice a finalist for the Pulitzer Prize, he has won the Alfred I. duPont-Columbia University Award, John B. Oakes Award, AAAS Kavli Science Journalism Award, and J. Anthony Lukas Work-in-Progress Award. A graduate of the Columbia Journalism School, he lives in Milwaukee with his wife and children.



Dan Egan

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Institute for a Sustainable Future
 Illinois-Indiana Sea Grant
 Indiana Water Resources Research Center
 School of Industrial Engineering
 Dept. of Forestry and Natural Resources
 Division of Environmental and Ecological Engineering

Visit our website for the complete list of our sponsors:
<https://bit.ly/esewaters>



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.**

ASTROBIOLOGY AND THE FUTURE OF LIFE MEETING

October 16-18, 2024
Houston, Texas / Virtual

[Meeting info](#)

ANNUAL MEETING OF THE LUNAR EXPLORATION ANALYSIS GROUP (LEAG)

October 28-30, 2024
Houston, Texas / Virtual
[Meeting info](#)

MARS EXPLORATION PROGRAM ANALYSIS GROUP (MEPAG)

November 6-7, 2024
Virtual
[Meeting info](#)

OUTER PLANET ASSESSMENT GROUP (OPAG) MEETING

November 6-8, 2024
Virtual
[Meeting info](#)

VENUS EXPLORATION ANALYSIS GROUP (VEXAG)

November 17-19, 2024
Louisville, KY / Virtual
[Meeting info](#)

2024 AGU ANNUAL MEETING

December 9-13, 2024
Washington, DC
[Meeting info](#)

ITOKAWA AND THE DAWN OF ASTEROIDAL SAMPLE RETURN WORKSHOP

January 28-30, 2025
Houston, Texas
[Meeting info](#)

56th LUNAR PLANETARY SCIENCE CONFERENCE

March 10-14, 2025
The Woodlands, Texas / Virtual
[Meeting info](#)

8th International Planetary Dunes Workshop

May 19-22, 2025
Sardina, Italy / Virtual
[Meeting info](#)

POSITIONS AVAILABLE- CAREER OPPORTUNITIES

- [Deep Learning and Coupled Human-Climate Postdoctoral Fellow](#) Colorado State
- [New Mexico 50yr Water Plan](#). We currently have 8 open positions to support this effort!
 - [Junior Hydrogeologist](#) - Bachelor's degree in Earth Sciences required
 - [Senior Hydrogeologist](#) - Master's degree in Earth Sciences required
 - [Water Data Engineer/Developer](#) - Bachelor's degree in Computer Sciences required
 - [Database Developer/Administrator](#) - Associate's degree or 18+ months experience in computer sciences or related fields
 - [Geothermal Research Associate](#) - Master's degree in Geoscience/Geophysics/Engineering required
 - [Argon Lab Manager](#) - Master's degree in Argon geochronology
 - [Publications Resource Specialist](#) - high school diploma or GED required
- [Tenure-track asst. professor](#) – Dept. of Marine, Earth, and Atmospheric Sciences (MEAS) at NC State University
- [Aviation Meteorology Assoc. Professor](#) - University of Oklahoma. Contact search chair Dr. Jens Redemann (jredemann@ou.edu)
- [Tenure-track Meteorology Faculty Position](#) – Valparaiso University
- NYS Mesonet [Field Technicians](#)
- [Multiple Positions](#) with Enviroforensics
- PURDUE STUDENT OPPORTUNITY: Purdue Envision Center [recruiting EAPS students](#)
- Meteorology and Atmospheric Science – [multiple positions from various companies](#)
- AGI Geoscience Job Center – [multiple positions](#)
- Gradient Corp – [multiple opportunities](#). contact [Qian Zhang](#)
- National Weather Service – [multiple opportunities](#)

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](#).