

EAPS WEEKLY NEWSLETTER

October 14, 2024

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EAPS MEETINGS & EVENTS

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[REPORT YOUR OUTREACH AND ENGAGEMENT ACTIVITIES](#)

CONGRATS, KUDOS, COOL STUFF, AND THUMBS UP!

- Happy fall break!
- Shoutout to Steven Smith for taking on the Wabash with raft-loads of students from area schools. This learning experience will stay with them forever. Great work Steven!
- Congratulations to Lauren Johnson (middle) for being awarded an American Institute of Professional Geologists (AIPG) regional scholarship. Anna Sutton (left) and Mark Howell, members of Illinois/Indiana Section AIPG, presented the award in one of Lauren's classes. She is a junior studying Geology and Geophysics.



NEWS/OPPORTUNITIES AT PURDUE

PURDUE INSTITUTE FOR A SUSTAINABLE FUTURE (ISF) FALL RESEARCH EXPO

Come eat free food + learn about sustainability research across campus **Today 1-4p** in the **PMU South Ballroom** for the **Purdue Institute for a Sustainable Future (ISF) Fall Research EXPO**: <https://research.purdue.edu/isf/events/index.php?vlew=13182>

Several students from EAPS will have posters, and there will be students, postdocs, and faculty from across campus sharing their interesting research related to all the dimensions of sustainability -- science/engineering/ag/social related to climate change, mitigation/adaptation, infrastructure, energy, water, Great Lakes, PFAS, environmental justice etc.

EAPS SEMINAR – BEN ROSTRON

Thursday, October 17, 3:30 pm, HAMP 1252
Ben Rostron is a professor emeritus from the University of Alberta.
Hosts: Profs. Doug Schmitt and Marty Frisbee.

DEAN'S ENTREPRENEURSHIP PANEL

The Hall of Data Science and AI (DSAI), Room 1069
Wednesday, October 16, 2024
3:30 to 5:00

Lucy Flesch, the Frederick L. Hovde Dean of the College of Science, is presenting a panel talk on Entrepreneurship – Exploring What it Takes to Move from the Lab to the Board Room. Hosted by Mikhail Atallah, Distinguished Professor of Computer Science and founder and first CTO of Arxan, the panel will feature:

- Professor Rams Subramanian, the Gerald and Edna Mann Director of the Bindley Bioscience Center, co-founded and served as the first CEO of a highly successful bio incubator, is a serial entrepreneur, and also co-founded a not-for-profit organization to raise funds for scientific research.
- Professor Andy Jung of Physics and Astronomy
- Jackie Magno – 2018 Distinguished Alumnus of Chemistry, and BS graduate of Chemistry - is an angel investor and Managing Director for Golden Seeds, which focuses on opportunities for women-led businesses. She

is a mentor with the Silicon Valley Boiler Innovation Group (SVBIG), and also a member of the Dean's Leadership Council for the College of Science.

- Bruce Schechter – 2021 Distinguished Alumnus of Physics, and BS graduate of both our Physics and Math departments – is a startup advisor and principal of the Schechter Company. He was a long-time Intel staff member, serving in the executive suite. He is a co-founder of the Silicon Valley Boiler Innovation Group (SVBIG), which mentors early-stage companies founded and/or led by Purdue graduates. He is a member of the Dean's Leadership Council for the College of Science.

Jackie Magno will moderate the discussion. There will be opportunity for audience questions.

A reception will follow.

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.

The conference will 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."

[Register for the event](#)

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.

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

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.
- **Borlina, C. S.,** Lima, E. A., Feinberg, J. M., Jaqueto, P., Lascu, I., Trindade, R. I. F., et al. (2024). Obtaining high-resolution magnetic records from speleothems using magnetic microscopy. *Geochemistry, Geophysics, Geosystems*, 25, e2024GC011594. <https://doi.org/10.1029/2024GC011594>
- Audrey R. Putnam, Kirsten L. Siebach, **Candice C. Bedford,** Sarah L. Simpson, Michael T. Thorpe, Joseph J. Tamborski, Elizabeth B. Rampe, Ice-marginal volcanic sequence in Iceland found on a nondescript gradual hillslope: An unexpected record of ice thickness late in deglaciation, *Journal of Volcanology and Geothermal Research*, Volume 455, 2024, 108195, ISSN 0377-0273, <https://doi.org/10.1016/j.jvolgeores.2024.108195>

MEETINGS/EXPOS/ OPPORTUNITIES OUTSIDE OF PURDUE

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.

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

- [Future Faculty in the Physical Sciences \(FFPS\) Fellowship](#) – Princeton
- [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
- [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
- [Multiple Positions](#) with Enviroforensics
- [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](#).