PURDUE UNIVERSITY | Department of Earth, Atmospheric, and Planetary Sciences

# EAPS WEEKLY NEWSLETTER

**December 15, 2025**

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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!

- Happy holidays, everyone! This newsletter will resume next semester on January 12th.
- Watch the AGU TV 2025 film highlighting our department!
- Many of our faculty, staff and students are in New Orleans at AGU this week in New Orleans!
  - To sign up for the EAPS Alumni Mixer in New Orleans on December 18th @ 7 PM at The Chicory, register here.
- Check out NASA's video of Ali Bramson and her team in Iceland! Ali and her team are helping prepare NASA astronauts to explore the Moon and Mars and also search for life on other planets! https://www.youtube.com/watch?v=MynjwqcVBuI

## NEWS/OPPORTUNITIES AT PURDUE

### EAPS SEMINAR

There is no EAPS Seminar this week. Good luck with finals and happy holidays!

### EAPS UNDERGRAD STUDENT RESEARCH OPPORTUNITIES

If you are interested in an EAPS undergraduate research opportunity, click here for more information.

### EAPS GRAD STUDENT RESEARCH OPPORTUNITIES

If you are interested in an EAPS grad research opportunity, click here for more information.

### EAPS COMMUNITY HOURS

On behalf of the **EAPS Community and Belonging Committee**, we will resume the *EAPS Community Hours*. These will be from **3 - 4 pm on Tuesdays** and have **HAMP 2201** reserved.
This is a time for folks to come hang out, gripe, play Jenga, knit, work in the corner, stare at the wall, make a new plot, don't make a new plot, talk about a new paper or current events, drink a coffee, brainstorm, and just be together.
Note: Occasionally, there might be another department event in the room, so if the 2201 door is shut or looks like something else is going on in there, gingerly check with folks in the room or look at the schedule that is posted on the door before barging in.

### FEDERAL FUNDING UPDATES

This site provides important information and updates from federal agencies that impact the Purdue University research enterprise.
https://government-transition.research.purdue.edu/

### 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.

## VOLUNTEER OPPORTUNITY WITH PURDUE SCIENCE OLYMPIAD

The Purdue Science Olympiad is a K-12 STEM competition where middle and high school students compete in 46 events each centering around a different topic in STEM, including several Earth science events. As college students, we plan, prepare, and run the entire tournament for these competitors. For example, our Rocks and Minerals event gives students the chance to identify rocks and minerals as well as demonstrate their understanding of geologic processes and development of natural resources.

On **January 31st**, we will be hosting the Purdue Science Olympiad Invitational tournament for over 1,000 middle and high school students. This competition is a wonderful opportunity to help encourage and facilitate their passion for science as well as showcase why Purdue is a powerhouse in STEM. Since our club is entirely student run, we need about *300 volunteers on January 31st* for the tournament. We would love to partner with EAPS students and staff to help us run this event!

If you are interested in volunteering with us, please fill out this form to sign up and get on our email list for further information. All volunteers will be given breakfast, lunch, and a free t-shirt. We deeply appreciate the several EAPS students who have already helped us by writing exams and hope to see many more on the day of the tournament! If you have any questions, please feel free to email Christina Sowinski at csowinsk@purdue.edu or visit our website for more information.

## STREAMLINE CLIMATE & ATMOSPHERIC DATA ACCESS AT PURDUE

To better facilitate the atmospheric and climate science research within the Purdue community, RCAC is assessing the interest and current usage of key datasets and models. Our goal is to continue to grow centralized, ready-to-use data repository and pre-installed models in our cluster environment. This will reduce redundancy, streamline access, and optimize both time and resources across research groups. Please take the time to put your input in the survey link:
https://purdue.ca1.qualtrics.com/jfe/form/SV_3K91QLGCvyrCGwu

## NASA HUBBLE FELLOWSHIP PROGRAM

Purdue University has been officially named a host site for the **NASA Hubble Fellowship Program (NHFP)**, opening the door for top postdoctoral scientists to carry out independent astrophysics research on campus.
The competitive program is open to applicants who have completed their doctoral degree on or after Jan. 1, 2022. Applications for the next cycle will be announced later.

## 51 PEGASI B FELLOWSHIP

Purdue University is proud to be a host institution for the **Heising-Simons Foundation 51 Pegasi b Fellowship,** and we have 17 faculty mentors from the College of Science.
The 51 Pegasi b Fellowship provides postdoctoral scientists with the opportunity to conduct theoretical, observational, and experimental research in planetary astronomy.
The 51 Pegasi b 2025/2026 application period is now open. Applicants will be notified about
The status of their applications by mid-February.
Interested candidates are asked to submit an online application here.
Check out our new website on the EAPS webpage here:
https://www.eaps.purdue.edu/research/51pegbfellowship.html
You can also email Alexandria Johnson, who is Purdue's institutional contact.

## ADVANCING SPACE EXPLORATION SYMPOSIUM AT PURDUE UNIVERSITY

The 2nd annual Advancing Space Exploration at Purdue Symposium will bring together leaders from inside and outside Purdue to discuss opportunities for universities to work with industry partners to make the next giant leap in robotic and human space exploration. We will explore ways to develop spacecraft missions, discuss needed scientific, engineering, and technology developments, and identify opportunities for collaboration with both NASA and the private sector for the successful flight of compelling spacecraft missions.
**What to expect:**

- Hear from experts and thought leaders in the space industry
- Connect with leading industries driving technological advancements
- Network with top talent and faculty at the forefront of space exploration
- Poster session

Click here for more information.

# 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.**

Game night is the third Friday of each month.
Time: 6:00 PM to 9:00 PM.
Location: HAMP 2244

**Ongoing**:

- Purdue University Kids STEM Degree
- Science From the Expert

See all of our videos on the Superheroes of Science YouTube channel:
https://www.youtube.com/c/SuperheroesofScience

**Social sites:**
Instagram
Facebook Superheroes of Science

# PUBLICATIONS

- **Madan, I., & Pearce, B. K.** (2025). Prebiotic Chemistry Insights for Dragonfly: Thermodynamics of Amino Acid Synthesis in Selk Crater on Titan. *Planet. Sci. J.* **6** 284. DOI: https://doi.org/10.3847/PSJ/ae1c18
- **Lin, Kuan-Yu**, Jessica M. Warren, Manuel E. Schilling, Gaëlle Plissart, Alexandre Corgne, Norikatsu Akizawa, Ryo Anma, Maite Alvear, Emilio González, and Catalina Marín. "The Taitao Ophiolite: Snapshot of Nascent Oceanic Mantle Emplaced via Ridge–Trench Collision." Journal of Petrology 66, no. 11 (2025): egaf092.
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- **A. P. Broz, B. H. N. Horgan, C. Bedford**, C. Royer, **H. Manelski**, **S.Connell, R. C.Wiens**, E. C. Cardarelli, J. M. Madariaga, L. Mandon, A. Klidaras, M. Bramble, B. Kathir, O. Forni, John Carter, E. Dehouck, C. Quantin-Nataf, J.R. Johnson, J. I. Nuñez, E. Hausrath, U. Wolf, E. A. Cloutis, P. Beck, J. F. Bell, J. I. Simon & A. Cousin (2025) Alteration history of aluminum-rich rocks at Jezero crater, Mars. Nature Comm. Earth & Environment 6, 935, https://doi.org/10.1038/s43247-025-02856-3.
- **S. A. Connell, R. C. Wiens,** L. Mandon, **C. C. Bedford,** S. Siljeström, S. Schröder, G. M. Martínez, Á. Vicente-Retortillo, E. A. Cloutis, D. M. Applin, A. Broz, C. Royer, J. R. Johnson, J. Van Beek, T. Nelson, E. Clavé, F. Poulet, P. Beck, E. Dehouck, T. Fornaro, T. Fouchet, A. Jones, A. Alberini, A. Cousin, K. Hand, K. Uckert, J. A. Rodríguez-Manfredi, K. M. Stack, and the Mars 2020 team (2025), "Abrasion Patch Dehydration Experiment at Bright Angel, Jezero Crater, Using SuperCam Onboard the Mars 2020 Perseverance Rover." *Journal of Geophysical Research: Planets,* DOI: 10.1029/2025JE009243
- Molina, M. J., A. McGovern, J. S. Perez-Carrasquilla, and **R. L. Tanamachi,** 2025: Using Generative Artificial Intelligence Creatively in the Classroom: Examples and Lessons Learned. *Bulletin of the American Meteorological Society*, 106(11), E2346–E2357, https://doi.org/10.1175/BAMS-D-24-0009.1.
- University Corporation For Atmospheric Research (UCAR), 2025: Dual-Polarization Fundamentals. https://learn.meted.ucar.edu/#/online-courses/a1a6cba8-c509-49ba-9d50-5dc3e2184fb3 [**R. Tanamachi** is the subject matter expert.] (Login required)
- Golombek, M., Hibbard, S., Bloom, C., **Deahn, M.,** Warner, N., Williams, N., et al. (2025). Corinto: A young, extensively rayed crater that produced a billion secondaries on Mars. *Journal of Geophysical Research: Planets*, 130, e2025JE009150. https://doi.org/10.1029/2025JE009150
- **Sori, M.M.**, A.I. Ermakov, and J.T. Keane (2025), An orbital gravity mission could decipher the global dichotomy on Mars, *Nature Geoscience*. https://doi.org/10.1038/s41561-025-01817-x
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- **Liu**, X., Zhang, Y. G., **Huber**, M., Chang, P., & **Wang**, L. (2025). Connecting warming patterns of the paleo-ocean to our future. AGU Advances, 6, e2025AV001719. https://doi.org/10.1029/2025AV001719
- Colleps, C.L., van der Beek, P., Amalberti, J., Sobel, E., **Tremblay, M.M.** , and Bernard, M., 2025, Evaluating the resolving power of apatite 4He/3He thermochronology: Insights from the Fish Canyon Tuff. *Geology*, https://doi.org/10.1130/G53000.1
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Richard V. Morris, Yu Yu Phua, Nicolas Randazzo, Joseph Razzell Hollis, Francesco Renzi, Sandra Siljeström, Justin I. Simon, Anushree Srivastava, Nicola Tasinato, Kyle Uckert, **Roger C. Wiens**, Amy Williams (2025) Evidence for polycyclic aromatic hydrocarbons detected in sulfates at Jezero crater by the Perseverance rover. Nat. Astron. https://doi.org/10.1038/s41550-025-02638-z.

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- **Pérez Cortés, S.L.**, **A.M. Bramson**, **C.M. Sowinski**, M. Day (2025) Scour pits in the Medusae Fossae Formation and Olympus Mons Region on Mars. Journal of Geophysical Research: Planets, 130, 7, e2024JE008664, https://doi.org/10.1029/2024JE008664.
- **Hamill, C.D. , A.V. Johnson,** M. Lodge, P. Gao, **R. Nag,** N. Batalha, D.A. Christie, and H.R. Wakeford (2025): The Effects of Cuboid Particle Scattering on Reflected Light Phase Curves: Insights from Laboratory Data and Theory. *ApJ* **987** 176. Doi: 10.3847/1538-4357/add7cf
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- **Mijjum, M.**, and **Tremblay, M.M.**, 2025, Helium Diffusion Kinetics in Enstatite, Kamacite, and Albite, With Implications for the Cosmic Ray Exposure Ages of Enstatite (E) Chondrites. ACS Earth and Space Chemistry. doi: 10.1021/acsearthspacechem.5c00112
- **S.A. Connell**, D.M. Applin, E.A. Cloutis, J.T. Poitras, D.T. Dixon, S.A. Mertzman, P. Mann, C. Royer, T. Fornaro, A. Broz, R.C. Wiens (2025), "Spectral reflectance (0.35–2.50 µm) properties of minerals and organic-bearing compounds exposed to current Martian surface conditions" Icarus, https://doi.org/10.1016/j.icarus.2025.116712.
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- **Yuan, Y.**, **Zhuang, Q.**, Zhao, B., & Shurpali, N. (2025). Impacts of permafrost degradation on N2O emissions from natural terrestrial ecosystems in northern high latitudes: A process-based biogeochemistry model analysis. Global Biogeochemical Cycles, 39, e2024GB008439. https://doi.org/10.1029/2024GB008439

# MEETINGS/EXPOS/ OPPORTUNITIES OUTSIDE OF PURDUE

**2026 CADRE-EPIC DATA ASSIMILATION TRAINING AND SCIENCE WORKSHOP**

The 2026 CADRE-EPIC Data Assimilation Training and Science Workshop to be held 1-5 June 2026 at the National Weather Center, Norman, OK. If you are interested in attending, please submit your application by **Feb. 2, 2026**. Click the link below for more information.
https://ucadre.org/wp-content/uploads/2025/12/draft_cadre_training_2026_flyer.pdf

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**DBER REU AT MTSU FOR SUMMER 2026**

The Mathematics and Science Education (MSE) Research Community at Middle Tennessee State University (MTSU) will be hosting *RAIDERS, an REU Advancing InterDisciplinary Education Research in STEM in Summer 2026.*
If you, or someone you know, is interested in making discoveries about how students learn Science, Technology, Engineering, and/or Mathematics (STEM) by joining an interdisciplinary community of STEM education researchers, this is the REU for you! The summer 2026 session will offer 10 project choices across the STEM disciplines (see project descriptions at https://urc.mtsu.edu/raider-reu/).
After completing the 8-week REU in July, undergraduate researchers will return to MTSU in January to present their research at the Southeastern STEM Education Research Conference (SSERC).
We are looking for STEM majors or pre-service STEM teachers interested in how people learn.
The program will run from **May 31 – July 25, 2026**.
Selected participants will:

- Receive a **$6,300 stipend.**
- Receive travel to and from MTSU (35 miles southeast of Nashville) and housing and a meal allowance for the summer.
- Receive funding to attend and present their work at the Southeastern STEM Education Research Conference (SSERC) in January 2027.

Please share this opportunity with interested undergrads. Applications should be submitted via NSF's ETAP system: https://etap.nsf.gov/award/8341/opportunity/11487 **Application deadline is February 2, 2026.**
If you or your students have any questions, comments, or excitements – feel free to reach out at jennifer.kaplan@mtsu.edu

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**2026 NSF NCAR EARTH SYSTEM SCIENCE INTERNSHIP (NESSI)**

Applications for the **2026 NSF NCAR Earth System Science Internship (NESSI)** are now open to undergraduate students! Hosted by NSF NCAR Education, Engagement, and Early Career Development (EdEC), NESSI offers a wide range of research topics, including but not limited to atmospheric science, computational science, engineering, and solar & space physics. Convergence science and interdisciplinary projects are also available. NESSI is designed not only to foster research skills but also to support students through dedicated mentoring and to strengthen their connection to the broader Earth system science community.
Application Period: **November 10, 2025 – January 4, 2026.** Learn More & Apply**: NESSI Program Webpage** https://edec.ucar.edu/students/nessi
We encourage you to **share this opportunity with your networks**. For additional information on student opportunities, please visit the NSF NCAR, UCAR, and UCP Opportunities webpage.
If you have any questions about NESSI, please don't hesitate to reach out to the NESSI Team (nessi@ucar.edu).

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**2026-27 WILLIAM L. FISHER AGI CONGRESSIONAL GEOSCIENCE FELLOWSHIP**

The American Geosciences Institute is accepting applications for the 2026-2027 William L. Fisher AGI Congressional Geoscience Fellowship.
This fellowship represents a unique opportunity to gain first-hand experience with the legislative process on Capitol Hill. The successful candidate will spend 12 months (starting September 1, 2026) in Washington, D.C., working as a staff member in the office of a member of Congress or congressional committee. Fellows make practical contributions to the effective and timely use of geoscientific knowledge on issues relating to the environment, resources, natural hazards, and federal science policy.
Funding for the fellowship is provided through an endowment established by the AGI Foundation to honor William L. Fisher, the Leonidas T. Barrow Centennial Chair in Mineral Resources and Professor

at the John A. and Katherine G. Jackson School of Geosciences at the University of Texas, Austin. This one-year fellowship carries a stipend of $78,000 plus allowances for relocation, travel and health insurance. **Deadline: January 26, 2026**
Check out their website for more information.

## FULLY FUNDED MAT EARTH SCIENCE PROGRAM

The Master of Arts in Teaching Earth Science Residency Program in the Richard Gilder Graduate School at the American Museum of Natural History in New York City is **looking for graduates with Earth and space science backgrounds, including those graduating in 2026** (geology, mineralogy, paleontology, oceanography, astronomy, environmental geology, and more) who want to make a difference in the world of STEM education. This teaching fellowship combines coursework, mentoring, and real-world experience to prepare Earth and space science graduates for **rewarding careers as culturally responsive middle and high school teachers.**
All degree candidates will receive **free tuition, books, and a $40,000 stipend** towards the cost of living**.** In return, candidates commit to teaching in a high-needs school in New York City for two years. With a sole focus on preparing new Earth science teachers, the program is a full-time, 15-month Master's degree program that takes place at the Museum and in urban partner schools. We seek a student body with a passion for social justice and diverse life and career experiences.
**We are currently accepting applicants for the class that will begin in June 2026**. Prospective students are encouraged to attend an Information Session or to contact us for more information.
Check out more program information here.

## EXPLORERS CLUB IMPACT GRANTS

Fieldwork in the following disciplines will be considered: biological sciences, archaeology, anthropology, paleontology, earth sciences, ecology, and astronomy, as well as exploratory projects that reveal new knowledge about the planet and its inhabitants, including regions undergoing significant environmental or cultural change. While there may be lab components of a project, grants provide funding for projects that are largely based upon a field expedition. Fieldwork can be rugged and adventurous, but the program will not consider projects purely focused on adrenaline sports or physical feats. Adventure with a purpose, combining adventure with genuine conservation or scientific objectives, will be considered.
Check out their website here!

## 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

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 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.**

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**RECRUITMENT FOR CoCoRaHS**

The Community Collaborative Rain, Hail, and Snow Network (CoCoRaHS) is looking for more weather observers throughout Indiana and beyond.
By participating in CoCoRaHS, farmers contribute valuable data that supports better agricultural decisions, weather-related products, and faster recovery during severe weather events.
The application for U.S. participants is at https://www.cocorahs.org/application.aspx

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**AMERICAN GEOPHYSICAL UNION (AGU) 2025**

**December 15-19, 2025**
**New Orleans, LA**
Meeting info

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**SECOND WORKSHOP ON ICES IN THE SOLAR SYSTEM**

**January 5-7, 2026**
**Montreal, Canada**
Meeting info

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**106TH AMS ANNUAL MEETING**

**January 25-29, 2026**
**Houston, TX / Virtual**
Meeting info

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**2026 AAAS (AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE) ANNUAL MEETING**

**February 12-14, 2026**
**Phoenix, AZ / Virtual**
Meeting info

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**LUNAR and PLANETARY SCIENCE CONFERENCE (LPSC)**

**March 16-20, 2026**
**The Woodlands, TX / Virtual**
Meeting info

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**37th CONFERENCE ON HURRICANES AND TROPICAL METEOROLOGY**

**March 30 to April 3, 2026**
**San Diego/La Jolla, CA / Virtual**
Meeting info

# POSITIONS AVAILABLE- CAREER OPPORTUNITIES

- **Associate / Full Professor – Geology and Geophysics Faculty Positions –** The College of Petroleum Engineering & Geosciences (CPG) at King Fahd University of Petroleum and Minerals (KFUPM) is pleased to share an exciting opportunity for experienced researchers interested in faculty positions, as well as for recent PhD graduates seeking postdoctoral roles.
- **Future Faculty in the Physical Sciences (FFPS) Fellowship** – Princeton
- **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 David Siple **by 5:00 pm 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.