

# EAPS WEEKLY NEWSLETTER

August 5, 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](#)

## 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.

<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](https://bit.ly/SOS_apple)

On Spotify: [https://bit.ly/SOS\\_spotify](https://bit.ly/SOS_spotify)

On Amazon: [https://bit.ly/Superheroes\\_amazon](https://bit.ly/Superheroes_amazon)

## CONGRATS, KUDOS, COOL STUFF, AND THUMBS UP!

- Congratulations to the team of Roger Wiens for earning a [NASA Planetary Instrument Technology Development Grant!](#)
- Congratulations to alumnus Paul Krishna for being named [chair of Ipeca!](#)

## PUBLICATIONS

- **Menten, S.M., M.M. Sori, A.M. Bramson, T.A. Nordheim, and R.J. Cartwright** (2024), [Volatile transport on Ariel and implications for the origin and distribution of carbon dioxide on Uranian moons](#), *J. Geophys. Res. Planets* 129, e2024JE008376.
- Nichols-Fleming, F., A.J. Evans, **B.C. Johnson**, and **M.M. Sori** (2024), [Moment of inertia and tectonic record of asteroid 16 Psyche may reveal interior structure and core solidification processes](#), *J. Geophys. Res. Planets* 129, e2024JE008291
- Wagner, N., P.B. James, A.I. Ermakov, and **M.M. Sori** (2024), [Evaluating the use of seasonal surface displacements and time-variable gravity to constrain the interior of Mars](#), *J. Geophys. Res. Planets* 129, e2023JE008053.
- D. Calderon-Arrieta, A.C. Morales, A.P.S. Hettiyadura, C. Li, T. Estock, C. Li, Y. Rudich, A. Laskin. Enhanced Light Absorption and Elevated Viscosity of Atmospheric Brown Carbon through Evaporation of Volatile Components. *Environmental Science and Technology*, 58, 17, 7493-7504. (2024). <https://doi.org/10.1021/acs.est.3c10184>.
- 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>.
- Olson, E. J., Welp, L. R., Frisbee, M. D., Zúñiga Medina, S. A., Alvarez-Campos, O., Roque Quispe, W. R., ... Jafvert, C. T. (2024). Spatially heterogeneous discharge of glacial meltwater to drainages surrounding the ablating Coropuna ice cap, Peruvian Andes. *Hydrological Sciences Journal*, 1–17. <https://doi.org/10.1080/02626667.2024.2352522>
- Olson, Elizabeth J., Lisa R. Welp, Marty D. Frisbee, Sebastián A. Zúñiga Medina, Odiney Alvarez-Campos, Wendy R. Roque Quispe, Carol I. Salazar Mamani, Midhwar R. Arenas Carrión, José Díaz Rodríguez, Juan M. Jara Gonzalez, Alexander Ccancapa-Cartagena, and Chad Jafvert. 2024. "Spatially Heterogeneous Discharge of Glacial Meltwater to Drainages Surrounding the Ablating Coropuna Ice Cap, Peruvian Andes." *Hydrological Sciences*

Journal 69 (8): 1113–29.  
doi:10.1080/02626667.2024.2352522.

- **Sharma, M., R. L. Tanamachi,** and E. C. Bruning, 2024: Investigating temporal characteristics of polarimetric and electrical signatures in severe storms: Insights from the VORTEX-Southeast field campaign. *Monthly Weather Review*, **152**, 1511–1536, <https://doi.org/10.1175/mwr-d-23-0144.1>.

## NEWS/OPPORTUNITIES AT PURDUE

### EAPS 1 MINUTE MADNESS RESEARCH BLITZ

Our first colloquium will be our annual 1-minute-madness research blitz on **Thursday, August 22nd at 3:30 pm in HAMP 1252**, and will be presented by **you!!**

This is a great opportunity to briefly and informally share your research with the department and introduce yourself to the new members of the department. **We encourage everyone to present (including first-year graduate students!) And attend this in-person research social.**

The presentation style and content are up to you – **however, you are only allowed one slide and 60 seconds to present.** Violators may be (gently!) buzzed off stage, so please practice timing yourself beforehand. And of course, there will be a prize for the best student and faculty presentation! Please [submit your slide and abstract here](#) by midnight on Wednesday, August 21st.

### EAPS GRAD STUDENT RESEARCH OPPORTUNITIES

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

## MEETINGS/EXPOS/ OPPORTUNITIES OUTSIDE OF PURDUE

### 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](http://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. 15<sup>th</sup> of each year.**

MODERN SEM TECHNIQUES WORKSHOP

August 12-14, 2024  
Lunar and Planetary Institute  
Houston, TX  
[Meeting info](#)

[Meeting info](#)

56<sup>th</sup> LUNAR PLANETARY SCIENCE CONFERENCE

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

2<sup>ND</sup> WORKSHOP ON TERRESTRIAL ANALOGS FOR  
PLANETARY EXPLORATION

August 14-16, 2024  
Flagstaff, Arizona / Virtual  
[Meeting info](#)

ANNUAL MEETING O PLANETARY  
GEOLOGIC MAPPERS

August 14-16, 2024  
Flagstaff, Arizona / Virtual  
[Meeting info](#)

GOLDSCHMIDT 2024

August 18-23, 2024  
Chicago, IL  
[Meeting info](#)

LUNAR SURFACE SCIENCE WORKSHOP 24

August 20, 2024  
Virtual  
[Meeting info](#)

ASTROBIOLOGY AND THE FUTURE OF LIFE MEETING

October 16-18, 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](#)

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

## POSITIONS AVAILABLE- CAREER OPPORTUNITIES

- [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](mailto:jredemann@ou.edu))
- [Assistant Instructional Professor](#) – UChicago
- [Senior Instructional Professor](#) – UChicago
- [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](#).