

EAPS WEEKLY NEWSLETTER

July 3, 2023

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EAPS MEETINGS & EVENTS

[PURDUE CALENDAR 2023-24](#)

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

[REPORT YOUR OUTREACH AND ENGAGEMENT ACTIVITIES](#)

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 GRAD STUDENT RESEARCH OPPORTUNITIES](#)

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

PUBLICATIONS

- **McGlasson, R.A., A.M. Bramson,** G.A. Morgan, **M.M. Sori** (2023) Varied Histories of Outlier Polar Ice Deposits on Mars. *Journal of Geophysical Research: Planets*, 128, 5, <https://doi.org/10.1029/2022JE007592>.
- LaFleur, Allison T., **Tanamachi, Robin L., Daniel T. Dawson II,** and D. D. Turner, 2023: Factors affecting the rapid recovery of CAPE on 31 March 2016 during VORTEX-Southeast. *Monthly Weather Review*, **151**, 1459–1477, <https://doi.org/10.1175/MWR-D-22-0051.1>.
- Seymour, Nicole J. Thomas, Fred M. Phillips, Jeffrey R. Knott, Donald W. Sada, Laura Rademacher, **Marty Frisbee,** Brian P. Hedlund. 2023. “Synecological Response of Spring Benthic Prokaryotes and Macroinvertebrates to Paleozoic Roof Pendant-Derived Calcium.” *Ecosphere* 14(5): e4464. <https://doi.org/10.1002/ecs2.4464>
- **L.C. Chaves, M.S. Thompson,** M.J. Loeffler, C.A. Dukes, P.S. Szabo, **B.H.N. Horgan,** Evaluating the effects of space weathering on magnetite on airless planetary bodies, *Icarus*, Volume 402, 2023, 115634, ISSN 0019-1035, <https://doi.org/10.1016/j.icarus.2023.115634>
- Whitney DL, **Delph JR,** Thomson SN, Beck SL, Brocard GY, Cosca MA, Darin MH, Kaymakci N, Meijers MJM, Okay AI, Rojay R, Teyssier C, Umhoefer PJ (2023) “Breaking plates: Creation of the East Anatolian fault, the Anatolian plate, and a tectonic escape system” *Geology*, [doi:10.1130/G51211.1](https://doi.org/10.1130/G51211.1)
- J. I. Simon, K. Hickman-Lewis, B. A. Cohen, L.E. Mayhew, D.L. Shuster, V. Debaille, E. M. Hausrath, B.P. Weiss, T. Bosak, M.-P. Zorzano, H. E. F. Amundsen, L.W. Beegle, J.F. Bell III, K. C. Benison, E. L. Berger, O. Beyssac, A.J. Brown, F. Calef, T. M. Casademont, B. Clark, E. Clavé, L. Crumpler, A. D. Czaja, A. G. Fairén, K. A. Farley, D. T. Flannery, T. Fornaro, O. Forni, F. Gómez, Y. Goreva, A. Gorin, K. P. Hand, S.-E. Harmran, J. Henneke, C. D. K. Herd, B. H. N. Horgan, J. R. Johnson, J. Joseph, R. E. Kronyak, J. M. Madariage, J. N. Maki, L. Mandon, F. M. McCubbin, S. M. McLennan, R. C. Moeller, C. E. Newman, J. I. Núñez, A. C. Pascuzzo, D. A. Pedersen, G. Poggiali, P. Pinet, C. Quantin-Nataf, M. Rice, J. W. Rice Jr., **C. Royer^P,** M. Schmidt, M. Sephton, S. Sharma, S. Siljeström, K. M. Stack, A. Steele, V. Z. Sun, A. Udry, S. VanBomme, M. Wadhwa, **R. C. Wiens,** A. J. Williams, K. H. Williford (2023) Samples Collected from the Floor of Jezero Crater with the Mars 2020 Perseverance Rover. *J. Geophys. Res. Planets*, 128, <https://doi.org/10.1029/2022JE007474>.
- E. Clavé, K. Benzerara, P.-Y. Meslin, O. Forni, **C. Royer^P,** L. Mandon, P. Beck, C. Quantin-Nataf, O. Beyssac, A. Cousin, B. Bousquet, **R. C. Wiens,** S. Maurice, E. Dehouck, S. Schröder, O. Gasnault, N. Mangold, G. Dromart, T. Bosak, S. Bernard, A. Udry, R.B. Anderson, G. Arana, A.J. Brown, K. Castro, S.M. Clegg, E. Cloutis, A.G. Fairén, D.T. Flannery, P.J. Gasda, J.R. Johnson, J. Lasue, G. Lopez-Reyes, J.M. Madariaga, J.A. Manrique, S. Le Mouélic, J.I. Núñez, A.M. Ollila, P. Pilleri, C. Pilorget, P. Pinet, F. Poulet, M. Veneranda, Z.U. Wolf, and the SuperCam team (2023) Carbonate Detection with SuperCam in Igneous Rocks on

the floor of Jezero Crater, Mars. *J. Geophys. Res. Planets*, 128, <https://doi.org/10.1029/2022JE007463>.

- Baptiste Chide, Xavier Jacob, Andi Petculescu, Ralph D. Lorenz, Sylvestre Maurice, Fabian See, Susanne Schröder, **Roger C. Wiens**, Martin Gillier, Naomi Murdoch, Nina L. Lanza, Tanguy Bertrand, Paolo Pilleri, David Mimoun, Manuel de la Torre Juarez, Ricardo Hueso, Asier Munguira, Agustín Sánchez-Lavega, German Martinez, Carène Larmat, Jérémie Lasue, Claire Newman, Jorge Pla-Garcia, Pernelle Bernardi, Ari-Matti Harri, Maria Genzer, Alain Lepinette (2023) Measurements of sound propagation in Mars' lower atmosphere. *Earth Planet. Sci. Lett.*, 615, <https://doi.org/10.1016/j.epsl.2023.118200>.

OUTREACH NEWS

Check out the latest Superheroes of Science podcast with Dr. Mike Sori of Purdue EAPS!

Listen or watch here:

[YouTube](#) | [Apple](#)



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/EAPSOut>

Social sites:

[Twitter](#)

[Instagram](#)

[Facebook Superheroes of Science](#)
[EAPS departmental outreach web page](#)

SUPERHEROES OF SCIENCE

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

MEETINGS/EXPOS/

OPPORTUNITIES OUTSIDE OF PURDUE

7TH MIDWEST STUDENT CONFERENCE ON ATMOSPHERIC RESEARCH

September 30-October 1, 2023

Showcase your research at the 7th Midwest Student Conference on Atmospheric Research ([MSCAR](#))! MSCAR is a 2-day conference with student talks and poster sessions, guest speaker seminars, workshops and more, and we welcome all undergraduate and graduate students to join us and learn about Atmospheric Sciences. It will be hosted on September 30 - October 1, 2023 at the University of Illinois Urbana-Champaign, in-person with a hybrid component. **Abstract submissions open on August 1st.** A hotel block is available! Save the date and follow us on Twitter (@MSCAR_Illinois) to learn the most updated news about the conference!

FREE COURSE PROVIDED BY THE ASSOCIATION FOR WOMEN GEOSCIENTISTS

American Geosciences Institute, in partnership with the AAPG Foundation is offering AGI Member Societies FREE access to the Geologize online course, "Practical Geocommunication." This course, valued at \$400 per person, provides an excellent opportunity for geoscientists to become more effective and powerful public ambassadors for our field, something that is urgently needed. Given the challenges facing both our field and society more broadly, it has perhaps never been more vital to effectively communicate geoscience to the public and other stakeholders. **The free offer is available for one year**, so you are encouraged to take advantage soon!

How to get free access to the training:

- Go to the AGI [society landing page](#) here.
- Click on the 'AGI Access' button
- Register for the course (free)
- Click on the link 'Have a Coupon?'
- Enter the code 'awg-agi-pggz-2324' to remove the price.

NAGT – 9TH ANNUAL EARTH EDUCATORS' RENDEZVOUS

The National Association of Geoscience Teachers (NAGT) is excited to announce that registration and abstract submissions are now open for the [ninth](#)

[annual Earth Educators' Rendezvous, taking place in Pasadena, California, from July 10-14, 2023!](#)
[registration](#), [programming](#), and [contributed program abstract submissions](#).

Register

Make sure you save your spot by [registering!](#)
Register by the early registration deadline--
Wednesday, May 3--for the best rates. NAGT
members receive \$100 off registration.

Learn more

Check out the [Rendezvous website](#) and [participant information](#) for more details.

SCHOLARSHIPS AVAILABLE - 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.**

29TH MEETING OF THE NASA SMALL BODIES ASSESSMENT GROUP

July 11-13, 2023
Washington, D.C. / virtual
[Meeting info](#)

URANUS FLAGSHIP: INVESTIGATIONS AND inSTRUMENTS FOR CROSS-DISCIPLINE SCIENCE

July 25-27, 2023
Pasadena, CA
[Meeting info](#)

EXTRATERRESTRIAL MATERIALS ANALYSIS GROUP (EXMAG)

August 1-3, 2023
Virtual
[Meeting info](#)

14TH PLANETARY CRATER CONSORTIUM MEETING

August 9-11, 2023
Flagstaff, AZ / virtual
[Meeting info](#)

86TH ANNUAL MEETING OF THE METEORITICAL SOCIETY

August 13-18, 2023
Los Angeles, CA
[Meeting info](#)

ANNUAL MEETING OF THE LUNAR EXPLORATION ANALYSIS GROUP

September 20-23, 2023
Laurel, MD / virtual
[Meeting info](#)

2nd INTERNATIONAL ORBITAL DEBRIS CONFERENCE

December 4-7, 2023
Houston, TX / virtual
[Meeting info](#)

PLANET CHARACTERIZATION IN THE SOLAR SYSTEM AND THE GALAXY WORKSHOP

February 21-23, 2024
Houston, TX / virtual
[Meeting info](#)

POSITIONS AVAILABLE- CAREER OPPORTUNITIES

NYS MESONET FIELD TECHNICIANS

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

MONTANA MESONET FIELD MANAGER, MONTANA CLIMATE OFFICE

The Montana Climate Office within the W.A. Franke College of Forestry and Conservation and at the University of Montana is seeking applications for an Applied Meteorologist/Mesonet Field Manager position. The Mesonet Field Manager (MFM) will oversee the installation and maintenance of climate monitoring stations (Montana Mesonet) across the state. The MFM will lead three Mesonet field crews: three full-time technicians and six seasonal employees in the construction and maintenance of the Montana Mesonet and ensure high-quality performance and

operation of all stations. The Montana Mesonet is being developed through a US Army Corps of Engineers (USACE) award to the Montana Climate Office. [Link](#)

**TEACHER OF PLANETARY ATMOSPHERES –
ISAE-SUPAERO IN TOULOUSE**

The teacher-researcher selected will be attached to the DEOS department of ISAE-SUPAERO. She or he will contribute to the development and animation of research around their own themes. She or he will ensure the fundamental missions of a teacher in his field of competence (face to face teaching, management of teaching programs). She or he will also be responsible for maintaining and developing relations and cooperation with regional, national and international academic and industrial partners. [Link](#)

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 beginning August 2023. [Learn more here.](#)

INDIANA EHS ADVISOR JOB POSTING

U.S. Compliance: Searching for high performing EHS professionals who want to make a difference. Join our fast-growing EHS compliance firm to help us care for people, Protect the environment and grow our clients' business. [Link to posting.](#)

**METEOROLOGIST POSITIONS AVAILABLE
TEGNA**

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

BRYAN ENVIRONMENTAL CONSULTANTS

Homewood, IL

SEEKING PART-TIME TO FULL-TIME POSITIONS

- Bachelor's or Master's degree in environmental engineering, civil engineering, geotechnical engineering, geology
- Knowledge of State and Federal environmental regulations a plus
- Experience with Phase I and II Environmental Site assessments a plus
- Strong writing skills
- Proficient in all Microsoft Office applications
- Must have cell phone and computer (laptop)
- Valid Driver's License

**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](#).

**PURDUE ENVISION CENTER (UNDER ITAP)
RECRUITING EAPS STUDENTS**

At the Envision Center looking to recruit 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](#).