

EAPS WEEKLY NEWSLETTER

July 11, 2022

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EAPS MEETINGS & EVENTS

[PURDUE CALENDAR 2022-23](#)[EAPS K-12 OUTREACH CALENDAR OF EVENTS](#)[REPORT YOUR OUTREACH AND ENGAGEMENT ACTIVITIES](#)

PUBLICATIONS

- Stone, A., Inglis, R., Barfod, D., Ickert, R., Hughes, L., Waters, J., Jourdan, A.-L., Alsharek, A., 2022. Hydroclimatic and geochemical palaeoenvironmental records within tufa: A cool-water fluvio-lacustrine tufa system in the Wadi Dabsa volcanic setting, western Saudi Arabia. *Sedimentary Geology* 106181. <https://doi.org/10.1016/j.sedgeo.2022.106181>
- **Zhao, B., Zhuang, Q.**, Treat, C., & Frolking, S. (2022). A model intercomparison analysis for controls on C accumulation in North American peatlands. *Journal of Geophysical Research: Biogeosciences*, 127, e2021JG006762. <https://doi.org/10.1029/2021JG006762> [PDF](#)
- Liu, X.; **Wang, S.; Zhuang, Q.**; Jin, X.; Bian, Z.; Zhou, M.; Meng, Z.; Han, C.; Guo, X.; Jin, W.; et al. A Review on Carbon Source and Sink in Arable Land Ecosystems. *Land* 2022, 11, 580. <https://doi.org/10.3390/land11040580> [PDF](#)
- **Melissa D. Cashion, Brandon C. Johnson**, Alexander N. Krot, Katherine A. Kretke, Shigeru Wakita, Thomas M. Davison, "Chondrule formation via impact jetting in the icy outer solar system," *Icarus*, Volume 384, 2022, 115110, ISSN 0019-1035, <https://doi.org/10.1016/j.icarus.2022.115110>.
- Drake, S.J., Gomez-Rivas, E., Ickert, R.B., Macdonald, D.I.M., 2022. Temporal and spatial variations in calcium carbonate deposition in a mixed siliciclastic-carbonate deep marine system: the Ediacaran Deeside Limestone

Formation, Aboyne, Scotland. *Scottish Journal of Geology* 58. <https://doi.org/10.1144/sjg2021-017>

- Lynner, C., **Delph, J.R.**, Portner, D.E., Beck, S.L., Sandvol, E., Ozacar, A.A., 2022, "Slab induced mantle upwelling beneath the Anatolian plateau" *Geophys. Res. Lett.*, <https://doi.org/10.1029/2021GL097451>
- Kaviani, A., Sandvol, E., Ku, W., Beck, S.L., Türkelli, N., Özacar, A.A., **Delph, J.R.**, 2022, "Seismic attenuation tomography of the Sn phase beneath the Turkish-Iranian Plateau and the Zagros mountainbelt" *Geosphere*, <https://doi.org/10.1130/GES02503.1>

OUTREACH NEWS

This semester we are scheduling live events for K-12 students again! For both our Hands-on Purdue Science programs (HOPS and AP Fridays) we are offering classrooms the following themes

Wednesdays and Fridays in May: Investigating Water Quality

[Check out the online labs and resources outreach has created.](#)

Social sites:

[TikTok SuperHeroesofScience](#)

[Facebook EAPS Outreach](#)

[Facebook Superheroes of Science](#)

[Twitter](#) [EAPS departmental outreach web page](#)

[Instagram](#)

Are you heading out for field work soon? If so, take some video footage or photos for outreach to use for teaching about the amazing things that we research!

NEWS/OPPORTUNITIES AT PURDUE

STUDENTS WANTED:

EVER WANTED TO BE AN ANSTRONAUT?

Space & Earth Analogs Research Chapter of Purdue (SEARCH), a newly founded organization responsible for making the Mars Desert Research Station (MDRS) project happen for this year's season, where a crew of seven Purdue students will spend 2 weeks in the desert performing scientific experiments to simulate Mars.

Looking for students from the following areas who might be interested in participating in this exciting project:

- Earth, Atmospheric and Planetary Sciences

- Astronomy & Physics
- Biology
- Chemistry
- Psychology
- Agricultural & Biological Engineering
- Aerospace Engineering
- Mechanical Engineering
- Computer and Electrical Engineering
- Industrial engineering
- Chemical Engineering
- Civil Engineering

The selection forms can be found at tinyurl.com/eac8bafa and will be open until the 24th of July. The mission will happen in January 1-14, 2023.



EAPS GRAD STUDENT RESEARCH OPPORTUNITIES

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

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](#).

Fall Application Deadline: October 1

Spring Application Deadline: March 1

MEETINGS/EXPOS OUTSIDE OF PURDUE

ANCIENT VENUS CONFERENCE

JULY 25-27, 2022

Lunar and Planetary Institute
Houston, Texas/Virtual

[Meeting Info](#)

13TH PLANETARY CRATER CONSORTIUM MEETING

August 10–12, 2022

Southwest Research Institute
Boulder, CO/Virtual

[Meeting info](#)

85TH ANNUAL MEETING OF THE METEORITICAL SOCIETY

August 14–19, 2022, Glasgow, Scotland

[Meeting Info](#)

ANNUAL MEETING OF THE LUNAR EXPLORATION ANALYSIS GROUP

August 23–25, 2022

Johns Hopkins University Applied Physics
Laboratory, Laurel, MD/Virtual

[Meeting info](#)

BRINES ACROSS THE SOLAR SYSTEM:

ANCIENT BRINES

September 12–15, 2022

Reno, Nevada/Virtual

[Meeting info](#)

Call for abstracts

Abstract submission deadline: **July 12, 2022, 5:00**
p.m. U.S. Central Daylight Time (GMT -5)

EXTRATERRESTRIAL MATERIALS ANALYSIS GROUP

(ExMAG) FALL MEETING

October 12–13, 2022

Virtual
[Meeting Info](#)

SMD BRIDGE PROGRAM WORKSHOP

October 17–21, 2022

Virtual
[Meeting info](#)

APOLLO 17 – ANGSA WORKSHOP

October 26–28, 2022

Lunar Planetary Institute
Houston, Texas

[Meeting info](#)

EXOPLANETS IN OUR BACKYARD 2

NOVEMBER 2-4, 2022

Pasadena, CA/Virtual

[Meeting Info](#)

20TH MEETING OF THE VENUS EXPLORATION

ANALYSIS GROUP (VEXAG)

November 7-9, 2022

Pasadena, California/Virtual

[Meeting Info](#)

ICES IN THE SOLAR SYSTEM

January 9-11, 2023

Montreal, Canada

[Meeting Info](#)

- 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](#).

ASTROCAMP

AstroCamp is looking for graduating students (undergraduate or graduate) for a full-time program instructor position for physical sciences

POSITIONS AVAILABLE- CAREER OPPORTUNITIES

**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

and astronomy concepts at their [outdoor science school in California](#). Link to job [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 [Qianlai 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](#).