

# EAPS WEEKLY NEWSLETTER

September 12, 2022

[Facebook](#) [Twitter](#) [LinkedIn](#) [Instagram](#) [Website](#)

## EAPS MEETINGS & EVENTS

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

## NEWS/OPPORTUNITIES AT PURDUE

### EAPS COLLOQUIUM - MICHELLE THOMPSON

Thursday, September 15

3:30 – 4:30pm

HAMP 1252

Michelle Thompson, Associate Professor for Purdue EAPS, will give a Tenure Talk.

### PATHWAYS SCHOLARSHIP OPPORTUNITY

[Student Pathways Scholarship closes September 15!](#)

This scholarship is a onetime award of \$500-\$1000, depending upon the number of applicants, for students with disabilities pursuing fields of study within the geosciences. This scholarship is open to both full-time and part-time students and can be used to cover the cost of tuition, rent, bills, or other financial obligation..

### TRANS INCLUSION TRAINING WORKSHOP

The EAPS DEI Committee will be hosting the campus LGBTQ Center for a **Trans Inclusion Training**

**Workshop** for our department:Tuesday, **September 20th**

3:30–5pm

Hampton 1252

All members of EAPS are invited, and we hope to see you there as we continuously work together to build an inclusive, safe, and welcoming community.

## EAPS GRAD SCHOOL INFO NIGHT

Brought to you by: EAPS  
Graduate Student  
Association

September 12, 2022

4pm – 6pm

HAMP 2201

Come learn about grad  
school applications, life as a  
grad student, and more!



4pm – 5pm: Panel of faculty and graduate students in Environmental Science, Atmospheric Science, Geology, and Planetary Science.

5pm – 6pm: Round table discussions with graduate students from each EAPS discipline.

### ASIAN AMERICAN AND ASIAN RESOURCE AND CULTURAL CENTER (AAARCC)

Fall 2022 Programming and AAARCC Speaker Series have been announced. The AAARCC plans for weekly events, fun times, speakers, and gatherings.

[Check it out!](#)

### 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

## EAPS GRAD STUDENT RESEARCH OPPORTUNITIES

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

## PUBLICATIONS

- **J.M. Tomlin**, J. Weis, D.P. Veghte, S. China, M. Fraund, Q. He, N. Reicher, C. Li, **K.A. Jankowski**, **F.A. Rivera-Adorno**, **A.C. Morales**, Y. Rudich, R.C. Moffet, M.K. Gilles, **A. Laskin** Chemical Composition and Morphological Analysis of Atmospheric Particles from an Intensive Bonfire Burning Festival. *Environmental Science: Atmospheres*, 2, 616–633, (2022). <https://doi.org/10.1039/D2EA00037G>
- Laura C. Chaves and Michelle S. Thompson, “Space weathering signatures in sulfide and silicate minerals from asteroid Itokawa,” (2022) 74:124, *Earth, Planets & Space*, <https://doi.org/10.1186/s40623-022-01683-6>
- Spangler, M. A. and R. L. Nowack (2022) Seismic Interferometry Applied to Wind Farm and Other Anthropogenic Noise Sources, *Seism. Res. Lett.*, 1-17, doi:10.1785/0220220201.
- Wiens R.C., Udry A., Beyssac O., Quantin-Nataf C., Mangold N., Cousin A., Mandon L., Bosak T., Forni O., McLennan S.M., Sautter V., Brown A., Benzerara K., Johnson J.R., Mayhew L., Maurice S., Anderson R.B., Clegg S.M., Crumpler L., Gabriel T.S.J., Gasda P., Hall J., Horgan B.H.N., Kah L., Legett C. IV, Madariaga J.M., Meslin P.-Y., Ollila A.M., Poulet F., Royer C., Sharma S.K., Siljestrom S., Simon J.I., Acosta-Maeda T.E., Alvarez-Llamas C., Angel S.M., Arana G., Beck P., Bernard S., Bertrand T., Bousquet B., Castro K., Chide B., Clavé E., Cloutis E., Connell S., Frydenvang J., Gasnault O., Gibbons E., Gupta S., Hausrath L., Jacob X., Kalucha H., Kelly E., Knutsen E., Lanza N., Laserna J., Lasue J., Le Mouelic S., Leveille R., Lopez Reyes G., Lorenz R., Manrique J.A., Martinez-Frias J., McConnochie T., Melikechi N., Mimoun D., Montmessin F., Moros J., Murdoch N., Pilleri P., Pilorget C., Pinet P., Rapin W., Rull F., Schroeder S., Shuster D.J., Smith R.J., Stott A., Tarnas J., Turenne N., Veneranda M., Vogt D.S., Weiss B.P., Willis P., Stack K.M., Williford K.H., Farley K.A., and the SuperCam team (2022) Compositionally and density stratified igneous terrain in Jezero crater, Mars. *Sci. Adv.* 8, <https://www.science.org/doi/10.1126/sciadv.abo3399>.
- Farley K.A., Stack Morgan K.M., Shuster D.L., Horgan B.H.N., Tarnas J.D., Simon J.I. Sun V.Z., Scheller E.L., Moore K.R., McLennan S.M., Vasconcelos P.M., Wiens R.C., Treiman A.H., Mayhew L.E., Beyssac O., Kizovski T.V., Tosca N.J., Hurowitz J.A., Allwood A.C., Williford K.H., Crumpler L.S., Beegle L.W., Bell J.F. III, Ehlmann B.L., Liu Y., Maki J.N., Schmidt M.E., Amundsen H.E.F., Bhartia R., Bosak T., Brown A.J., Clark B.C., Cousin A., Forni O., Gabriel T.S.J., Goreva Y., Gupta S., Hamran S.-E., Herd C.D.K., Hickman-Lewis K., Johnson J.R., Kah L.C., Kelemen P.B., Kinch K.B., Mandon L., Mangold N., Quantin-Nataf C., Rice M.S., Russell P.S., Sharma S., Siljestrom S., Steele A., Wadhwa M., Weiss B.P., Williams A.J., Wogslund B.V., Willis P.A., Acosta-Maeda T.A., Beck P., Benzerara K., Bernard S., Burton A.S., Cardarelli E.L., Chide B., Clavé E., Cloutis E.A., Cohen B.A., Czaja A.D., Debaille V., Dehouck E., Fairen A.G., Flannery D.T., Fleron S.Z., Fouchet T., Frydenvang J., Garczynski B.J., Gibbons E.F., Hausrath E.M., Hayes A.G., Henneke J., Jorgensen J.L., Kelly E.M., Lasue J., Le Mouelic S., Madariaga J.M., Maurice S., Merusi M., Meslin P.-Y., Milkovich S.M., Million C.C., Moeller R.C., Nunez J.I., Ollila A.M., Paar G., Paige D.A., Pedersen D.A.K., Pilleri P., Pilorget C., Pinet P.C., Royer C., Sautter V., Schulte M., Sephton M.A., Sharma S.K., Sholes S.F., Spanovich N., St. Clair M., Tate C.D., Uckert K., VanBommel S.J., Zorzano M.-P., Yanchilina A.G., Rice J.W.Jr. (2022) Aqueously altered igneous rocks on the floor of Jezero crater, Mars, *Science*, <https://www.science.org/doi/10.1126/science.abo2196>.
- Liu Y., Tice M.M., Schmidt M.E., Treiman A.H., Kizovski T.V., Hurowitz J.A., Allwood A.C., Henneke J., Pedersen D.A.K., VanBommel S.J., Jones M.W.M., Knight A.L., Orenstein B.J., Clark B.C., Elam W.T., Heirwegh C.M., Barber T., Beegle L.W., Benzerara K., Bernard S., Beyssac O., Bosak T., Brown A.J., Cardarelli E.L., Catling D.C., Christian J.R., Cloutis E.A., Cohen B.A., Davidoff S., Fairen A.G., Farley K.A., Flannery D.O., Galvin A., Grotzinger J.P., Gupta S., Hall J. Herd C.D.K., Hickman-Lewis K., Hodyss R.P., Horgan B.H.N., Johnson J.R., Jorgensen J.L., Moore L.C., Nachon M., Nemere P., Nothdurft L.D. Nunez J.I., O’Neil L., Quantin-Nataf C.M., Sautter V., Shuster D.L., Siebach K.L., Simon J.I., Sinclair K.P., Stack K.M., Steele A., Tarnas J.D., Tosca N.J., Uckert K., Udry A., Wade L.A., Weiss B.P., Wiens R.C., Williford K.H., and Zorzano M. (2022) An olivine cumulate outcrop on the floor of Jezero crater, Mars, *Science*, <https://www.science.org/doi/10.1126/science.abo2756>.

## OUTREACH NEWS

Don't forget to submit any activities you do with K-12:

<https://bit.ly/EAPSOOut>

**OPPORTUNITIES FOR PARTICIPATING IN OUTREACH PROGRAMS IN THE FALL OF 2022:**

**Purdue Homecoming.**

**09/24/2022**

The College of Science will have a tent and we will be doing hands-on activities.

**Wonders on the Wabash:**

- Volunteers to help be in the raft with students. Responsibilities include ensuring the safety of the students in your raft, making sure your students always adhere to the rules, staying with your students, and keeping your raft moving and on schedule.

- **Dates:** 8:30am - 3:00pm

- **Wed. Sept. 14th**
- **Thurs. Sept. 15th**
- **Tues. Sept. 20th**
- **Wed. Sept. 21st**
- **Thurs. Sept. 22nd**

▪ **Yes, you can just help one day or multiple days!**

- [Register here](#)

- **NOTE** you cannot wait until the last minute to register. You have to send in the background check form prior to the event.

**Hands on Purdue and AP Fridays:**

- The Hands-on Purdue program is for middle school and high school classes. These labs provide students with hands-on science labs in the K-12 Outreach Lab in the Brown building on the West Lafayette Campus.

- [Web Site](#)

**Virtual Labs**

If you like to help but not necessarily hands on. We create virtual labs and other programs for teachers and students.

Examples of [virtual labs](#), [virtual student programs](#), and [demos](#)

**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)

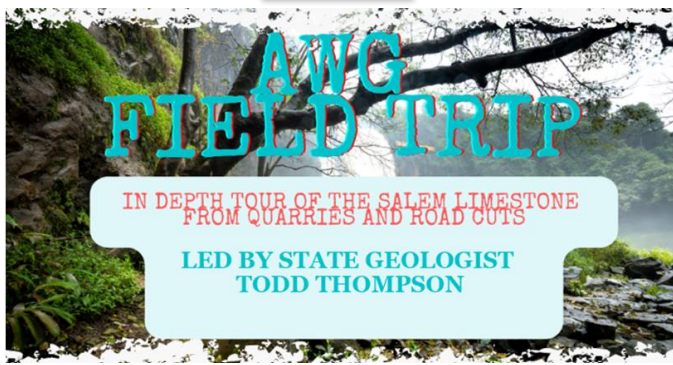
On Spotify: [https://bit.ly/SOS\\_spotify](https://bit.ly/SOS_spotify)

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

**Social sites:**

[TikTok SuperHeroesofScience](#)    [Twitter](#)  
[Facebook EAPS Outreach](#)    [Instagram](#)  
[Facebook Superheroes of Science](#)  
[EAPS departmental outreach web page](#)

## MEETINGS/EXPOS OUTSIDE OF PURDUE



**CICA WG FIELD TRIP OPPORTUNITY - SAT SEPT 24**

Join our Fall 2022 field trip led by Indiana State Geologist, Todd Thompson, for **a tour of the Salem Limestone from quarries and road cuts!** The field trip will start from Cascades Park in Bloomington, Indiana from 1 - 4 on Saturday September 24. Meet the field trip at Cascades Park or join a carpool from EnviroForensics in Indianapolis at 11:40.

Following the field trip, we will have **an informal happy hour at Todd's home**. Family and friends are welcome to join. Don't miss this opportunity to learn more about our state geology and meet with fellow Indiana Earth Scientists!

**Location:** Lower Cascades Park Bloomington (2851 Old State Rd 37, Bloomington, IN 47404)

**Date:** **Saturday, September 24**

**Time:** 1-4 pm (field trip), informal happy hour follows

**Carpool:** EnviroForensics (825 N Capitol Ave, Indianapolis, IN 46204)- *park in front of the EnviroForensics building along N. Capitol Avenue*

**RSVP:** [Here](#) (or follow [link](#))

**MIDWEST STUDENT CONFERENCE ON ATMOSPHERIC RESEARCH | ATMOSPHERIC SCIENCES AT ILLINOIS**

**MSCAR Conference: 25-26 September 2022**

[MSCAR will be held as a hybrid of in-person attendance at the University of Illinois Urbana-Champaign and everywhere virtually.](#) Though not mandatory, wearing of face masks for in-person attendees is STRONGLY ENCOURAGED.

Submit an Abstract & Register Today!

[Click here to submit an abstract!](#)

[Click here to register!](#)

**Upcoming Dates & Deadlines**

- **Registration Deadline: 23 September 2022** at 4 PM CT
- MSCAR Conference Dates: 1-2 Oct 2022

[Check out info on our keynote speakers, workshops and other events!](#)

**INDIANA STORMCHASERS CON (INCHASERCON)**

**NOV. 5, 2022**

**Hendricks Co Convention Center, located at 1900 E Main St, Danville, IN 46122**

**[Meeting info](#)**

Join us for the 11<sup>th</sup> annual Indiana Storm Chasers Convention! Open to any weather enthusiast, storm chaser, meteorologist, and the public! NOT limited to those in Indiana. [Registration is open.](#) One of the

[Featured Speakers](#) is our very own Robin Tanamachi!

## **FORD FOUNDATION FELLOWSHIP PROGRAMS**

### **[LEARN MORE](#)**

Through its program of fellowships, the Ford Foundation seeks to increase the diversity of the nation's college and university faculties by increasing their ethnic and racial diversity, maximize the educational benefits of diversity, and increase the number of professors who can and will use diversity as a resource for enriching the education of all students.

Predocctoral, dissertation, and postdoctoral fellowships are awarded in a national competition administered by the National Academies of Sciences, Engineering, and Medicine on behalf of the Ford Foundation.

Eligibility to apply for a Ford fellowship is limited to:

- All U.S. citizens, U.S. nationals, and U.S. permanent residents (holders of a Permanent Resident Card); individuals granted deferred action status under the Deferred Action for Childhood Arrivals Program; 1 Indigenous individuals exercising rights associated with the Jay Treaty of 1794; individuals granted Temporary Protected Status; asylees; and refugees, regardless of race, national origin, religion, gender, age, disability, or sexual orientation;
- Individuals with evidence of superior academic achievement (such as grade point average, class rank, honors or other designations); and
- Individuals committed to a career in teaching and research at the college or university level in the U.S.

### **2023 Competition Dates**

- 2023 Dissertation and Postdoctoral application deadlines: December 8, 2022, 5:00 PM Eastern Standard Time (EST)
- 2023 Predocctoral application deadline: December 15, 2022, 5:00 PM Eastern Standard Time (EST)
- Supplementary Materials deadline for submitted applications January 5, 2023, 5:00 PM Eastern Standard Time (EST)
- Notification of 2023 awards: TBD

## **EXTRATERRESTRIAL MATERIALS ANALYSIS GROUP**

### **(ExMAG) FALL MEETING**

October 12–13, 2022

Virtual

[Meeting Info](#)

## **OCEAN WORLD ANALOG FIELD SITE ASSESSMENT WORKSHOP**

October 13–15, 2022

Denver, Colorado/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

Albuquerque, New Mexico

(location changed)/Virtual

[Meeting Info](#)

## **LUNAR POLAR VOLATILES CONFERENCE**

Houston, TX/Virtual

Nov. 2-4, 2022

[Meeting Info](#)

## **20TH MEETING OF THE VENUS EXPLORATION**

**ANALYSIS GROUP (VEXAG)**

November 7-9, 2022

Albuquerque, New Mexico

(location changed)/Virtual

[Meeting Info](#)

## **OUTER PLANETS ASSESSMENT GROUP (OPAG)**

**MEETING**

November 15–16, 2022

Houston, TX/Virtual

[Meeting info](#)

## **COMMERCIAL LUNAR PAYLOAD SERVICES SURVIVE**

**THE NIGHT TECHNOLOGY WORKSHOP**

December 6-8, 2022

Cleveland, Ohio/Virtual

[Meeting Info](#)

## **ICES IN THE SOLAR SYSTEM**

January 9-11, 2023

Montreal, Canada

[Meeting Info](#)

## **28<sup>th</sup> MEETING OF THE NASA SMALL BODIES**

**ASSESSMENT GROUP**

January 24-26, 2023

Pasadena, CA/Virtual

[Meeting info](#)

## **VENUS SURFACE AND ATMOSPHERE CONFERENCE**

January 30 – February 1, 2023

Boulder, CO/Virtual

[Meeting info](#)

---

**54TH LUNAR AND PLANETARY SCIENCE CONFERENCE**

March 13–17, 2023

The Woodlands, TX/Virtual

[Meeting info](#)

## POSITIONS AVAILABLE- CAREER OPPORTUNITIES

### 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.](#)

---

### UNC CHARLOTTE HIRING A LAB TECHNICIAN- RESEARCH OPERATIONS MANAGER

**Applications due Sept 19, 2022**

UNC Charlotte is hiring a lab technician (Research Operations Manager) to serve the Department of Geography & Earth Sciences. This position would be great for a recent MS or even PhD grad that has had hands-on lab and equipment experience, is good at troubleshooting, wants to be involved in research and even training and interacting with students (for lab and safety work) but not so interested in joining the academy as a faculty member. The Department is involved in a wide-range of lab-based research ranging from rock mechanics, to hydrogeology, to geochemistry to biogeochemistry.

[link to the ad.](#) "Research Operations Manager" Position#003009

---

### 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](http://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 [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](#).