

# EAPS WEEKLY NEWSLETTER

November 28, 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](#)

## NEWS/OPPORTUNITIES AT PURDUE

### EAPS COLLOQUIUM –BASIL TIKOFF DECEMBER 1, 2022

Virtual

3:30 – 4:30 p.m.

Basil Tikoff is a professor at the University of Wisconsin-Madison

Host: Mike Eddy

### 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

### CIC AWG LOCAL HAPPY HOURS

We are excited to announce our next CIC AWG event, **a local happy hour on December 1 from 4:30 - 6:00!** We will be holding the event simultaneously in three locations: Indianapolis, Bloomington, and West Lafayette. The happy hour will be an informal time to get to meet with friends and colleagues. Bring friends and feel free to drop in any time during the event. We have also been on the hunt for a logo for our chapter, so we will have materials for sketching/coloring your ideas!

#### Locations:

Indianapolis: [Guggman Haus Brewing Co](#)

Bloomington: [Switchyard Brewing Company](#)

West Lafayette: [Big Woods](#)

#### Time:

**December 1, 4:30 - 6:00**

We look forward to seeing you all soon!

[Central Indiana Chapter AWG Leadership Team](#)

[cicawg@gmail.com](mailto:cicawg@gmail.com)

### EAPS GRAD STUDENT RESEARCH OPPORTUNITIES

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

## PUBLICATIONS

- **Delph, J.R.**, Thomas, A.M., Stanciu, A.C., Aslam, K., Chatterjee, A., and **Sassard, V.**, 2022, SCENTAR: A High-Density Nodal Array to Study the Structure and Seismogenic Behavior of the Southern Cascadia Forearc: *Seismological Research Letters*, v. in press, doi: 10.1785/0220220251
- Baptiste Chide, Tanguy Bertrand, Ralph D. Lorenz, Asier Munguira, Ricardo Hueso, Agustin Sánchez-Lavega, German Martinez, Aymeric Spiga, Xavier Jacob, Manuel de la Torre Juárez, Mark T. Lemmon, Don Banfield, Claire E. Newman, Naomi Murdoch, Alexander Stott, Daniel Viúdez-Moreiras, Jorge Pla-García, Carène Larmat, Nina L. Lanza, José Antonio Rodríguez-Manfredi, **Roger C. Wiens** (2022). Acoustics reveals short-term air temperature fluctuations near Mars' surface. *Geophysical Research Letters*, 49, e2022GL100333. <https://doi.org/10.1029/2022GL100333>
- **Chavas D. R.** and **F. Li.** [Biases in U.S. severe convective storm environments driven by biases in mean state near-surface moist static energy across CMIP6 models.](#) *Geophys. Res. Lett.* Early Online Release.
- Schenkel B. A., **Chavas D. R.**, Lin N., Vecchi G., Knutson T., and A. Brammer. [North Atlantic tropical cyclone outer size and structure remain unchanged by the late 21st century.](#) *J. Clim.* Early Online Release.

- Klotzbach P., Chavas D. R., Bell M. M., Bowen S. G., Gibney E. J., and C. J. Schreck III. [Characterizing Continental US Hurricane Risk: Which Intensity Metric is Best?](#) JGR-Atmos. p.e2022JD037030. [\[AGU EOS Editor Highlight\]](#)
- Johnson Z., Chavas D. R., and H. Ramsay. [Statistical framework for Western Pacific landfall risk through modulation of the Pacific subtropical high and ENSO](#). J. Clim., 35(22), pp.3787-3800.
- Liu, X., Huber, M., Foster, G.L., Dessler, A., and Zhang Y.G. Persistent high latitude amplification of the Pacific Ocean over the past 10 million years. Nature Communications **13**, 7310 (2022). <https://doi.org/10.1038/s41467-022-35011-z>

## OUTREACH NEWS

Don't forget to submit any activities you do with K-12: <https://bit.ly/EAPSOut>

Did you know that Outreach is working on an online [science demonstration repository](#)?

If you know a science demo that educators would enjoy, let us know!



Follow us on Social media to see now demos on Fridays.

**Social sites:**

[TikTok SuperHeroesofScience](#)   [Twitter](#)  
[Facebook EAPS Outreach](#)   [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)

# MEETINGS/EXPOS/ OPPORTUNITIES OUTSIDE OF PURDUE

## 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.](#)

## 2023 NOAA LAPENTA STUDENT INTERNSHIPS

Applications are now open for the [2023 NOAA Lapenta Student Internship](#)

- Open to undergrad sophomores, juniors, and grad students
- Internship dates: 6/5/23 - 8/11/23
- Apply by January 5th

Information session for interested students:

**December 8, 1:30-3:30 pm EDT**

<http://meet.google.com/zzd-upba-wtd>.

Lapenta staff members will be on hand to answer questions and provide application guidance.

## MASTER OF ARTS IN TEACHING EARTH SCIENCE RESIDENCY PROGRAM ACCEPTING APPLICATIONS

[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 (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 \$30,000 living stipend.** In return, candidates commit to teaching in a high-needs school for three 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 2023. Prospective students are encouraged to attend an Information Session or to contact us for more information. You can also visit the program website to learn more and/or join our mailing list (make sure to click MAT for Earth Science Grads). For questions, you can contact the program office directly <mailto:atmat@amnh.org> or (212) 313-7464.

### **DOD SMART SCHOLARSHIP**

**APPLY AUG. 1 – DEC. 1**

The [Science, Mathematics, and Research for Transformation \(SMART\) Scholarship-for-Service Program](#) is now accepting applications. SMART offers students pursuing a bachelor's, master's, or Ph.D. in science, technology, engineering, and mathematics (STEM) fields an opportunity to receive a full scholarship and guaranteed civilian employment with the Department of Defense upon degree completion. SMART offers students the chance to pursue their passion in STEM while supporting the mission of the Department of Defense.

Eligibility Requirements:

- Be a U.S. Citizen
- Be 18 years of age or older
- Minimum GPA of 3.0 on a 4.0 scale
- Be pursuing a bachelor's, master's, or Ph.D. in one of the [21 STEM fields](#)

**Application deadline is December 1, 2022.**

Students can view the [SMART videos](#) and visit [smartscholarship.org](http://smartscholarship.org) to learn more.

[Click here](#) to access a flyer and other materials about the program.

### **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

### **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](#)

### **28th 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**

**Change of Conference Location-**

Houston, TX/Virtual

[Meeting info](#)

**MERCURY EXPLORATION ASSESSMENT GROUP  
(MEXAG) ANNUAL MEETING**

February 1-3, 2023

Virtual

[Meeting info](#)

**54TH LUNAR AND PLANETARY SCIENCE CONFERENCE**

March 13–17, 2023

The Woodlands, TX/Virtual

[Meeting info](#)

**4TH INTERNATIONAL PLANETARY CAVES  
CONFERENCE**

May 4-7, 2023

Haria Municipality, Lanzarote, Spain

[Meeting info](#)

**BRINES ACROSS THE SOLAR SYSTEM: ANCIENT AND  
FUTURE BRINES CONFERENCE**

May 15-18, 2023

Reno, NV

[Meeting info](#)

**ASTERIODS, COMETS, & METEORS CONFERENCE**

June 18-23, 2023

Flagstaff, AZ

[Meeting info](#)

**URANUS FLAGSHIP: INVESTIGATIONS AND  
INSTRUMENTS FOR CROSS-DISCIPLINE SCIENCE**

July 25-27, 2023

Pasadena, CA

[Meeting info](#)

**2<sup>nd</sup> INTERNATIONAL ORBITAL DEBRIS CONFERENCE**

Dec. 4-7, 2023

Houston, TX / virtual

[Meeting info](#)

## POSITIONS AVAILABLE- CAREER OPPORTUNITIES

**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](#)

**STUDENT TRAINEE –**

**OHIO KENTUCKY INDIANA WATER SCIENCE CENTER**

We're hiring! The Ohio Kentucky Indiana Water Science Center is hiring a student trainee (Hydrology) in the Williamsburg, KY office.

[Click here to apply](#)

**McGILL - ASSISTANT PROFESSOR IN THE DEPARTMENT  
OF ATMOSPHERIC AND OCEANIC SCIENCES**

tenure-track faculty position at McGill University in the area of "Tropical-Extratropical Interactions."

[Learn more and 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.](#)

**ENTRY-LEVEL OPERATIONAL FORECASTER FOR  
COMMODITY WEATHER GROUP**

Starting salary: \$55,000 with bonuses, advancement potential, and fully funded health care. An energetic and enthusiastic meteorologist is being sought for weather forecasting and consulting with the Commodity Weather Group (CWG).

The position is full time and fully remote.

Required:

- bachelor's degree in meteorology or related science
- strong interest in weather forecasting
- excellent communication skills
- customer service experience
- self-motivated individual
- creative, positive-minded
- able to collaborate in team environment

Benefits include a fully paid healthcare option, stipends for office equipment and phone/internet expenses, and a 401(k) plan with company match. Significant opportunities exist for performance-based increases in compensation, including semiannual bonuses.

CWG consults for hundreds of companies in energy/agriculture risk management, including renewables, crop data, and weather-driven demand information on short-term to seasonal time scales. CWG also owns/manages the StormVista weather models services.

CWG has a very high client retention rate with extremely low employee turnover and is looking for another great addition to its dedicated weather team. The open organizational structure allows all team members to play a significant role in the future growth and development of the company. Send Cover Letters and Resumes to [applications@commoditywx.com](mailto:applications@commoditywx.com) Decision will be made in December 2022 with start date in early January 2023.

### **SENIOR GEOSCIENTIST AT FREEPORT-MCMORAN**

Freeport-McMoRan is a leading international mining company with headquarters in Phoenix, Arizona. We operate large, long-lived, geographically diverse assets with significant proven and probable reserves of copper, gold, and molybdenum. The company has a dynamic portfolio of operating, expansion and growth projects in the copper industry. Freeport-McMoRan is one of the world's largest publicly traded copper producers, the world's largest producer of molybdenum and a significant gold producer. We have a long and successful history of conducting our business in a safe, highly efficient and socially-responsible manner. Please note: This position has the possibility to work remotely up to 100% of the time. [Apply here.](#)

### **ASSISTANT OR ASSOCIATE PROFESSOR ATMOSPHERIC AND PLANETARY SCIENCES – HAMPTON UNIVERSITY**

The Hampton University (HU) Department of Atmospheric and Planetary Sciences (APS) invites nominations and applications for two tenure-track faculty positions at the rank of Assistant or Associate Professor beginning January 2023. Founded in 1868, Hampton University is a leading historically black university (HBCU) located on the Virginia Peninsula in the City of Hampton. It is a privately endowed, co-educational, nonsectarian institution. HU established the Center for Atmospheric Science (CAS) in 1996, which led to creation of the Department of Atmospheric and Planetary Sciences in 2007. APS offers M.S. and Ph.D. degrees in the fields of Atmospheric Science and Planetary Science. This program has

established a reputation of excellence in education, outreach and research, with particular emphasis on satellite applications for atmospheric studies. [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.](#)

### **POSTDOCTORAL APPOINTEE AT ARGONNE - WIND ENERGY AND CLIMATE SCIENCES**

We have an exciting opportunity for a Postdoctoral Researcher position focusing on Wind Energy and Climate Science at the Argonne National Laboratory. This appointment will be at the Environmental Science Division embedded within our Computer, Environment, and Life Sciences Directorate. The project aims to improve our understanding of factors modulating winds in an offshore wind farm environment, with an ultimate goal of improving their representation in models used for forecasting wind energy. The three-year multi-institutional project titled Observationally driven Resource Assessment with CoupLEd models (ORACLE) is funded by Department of Energy Wind Energy Technology Office. [Learn more here.](#)

### **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](#).