

EAPS WEEKLY NEWSLETTER

November 4, 2024

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EAPS MEETINGS & EVENTS

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[REPORT YOUR OUTREACH AND ENGAGEMENT ACTIVITIES](#)

CONGRATS, KUDOS, COOL STUFF, AND THUMBS UP!

- Alumni Alert! Dr. Richard D. Lewis, MA MS MBA MSS PhD received an award this year for 30 years of service to the California Board of Professional Geophysicists.

NEWS/OPPORTUNITIES AT PURDUE

EAPS SEMINAR – MARIA VALDES

Thursday, November 7, 3:30 pm, HAMP 1252

Maria Valdes is a research associate with the Field Museum of Natural History's School of the Art Institute of Chicago
Host: Prof. Kelsey Prissel

[PURDUE GIS DAY 2024](#)

Purdue Libraries and School of Information Studies invites you to attend and present at Purdue GIS Day 2024: Exploring GeoAI on **Thursday, November 7, 2024** in STEW 214.

Take your research to the next level by presenting it to leading scholars and members of the broader GIS community.

The conference will feature keynote speaker Gregory Brunner, an experienced scientist, award-winning professor, and principal data scientist at Esri—global market leader in GIS software, location intelligence, and mapping. He will be speaking about the rapid growth of the AI model ecosystem and the potential impact it has and will have on GIS in his talk titled, "The Burgeoning AI Model Ecosystem and Its Potential Impact on GIS."

[Register for the event](#)

DEFENSE CIVILIAN TRAINING CORPS - PURDUE UNIVERSITY

Purdue's Defense Civilian Training Corps (DCTC) is a new program that will build civilian careers in the Department of Defense relating to acquisition, digital technologies, critical technologies, science, engineering, and finance and more. The Defense Civilian Training Corps is a scholarship-for-civilian-service award.

EAPS GRAD STUDENT RESEARCH OPPORTUNITIES

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

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](#).

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

On Spotify: https://bit.ly/SOS_spotify

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

Tabletop Gaming Night

- Dates: First Friday of each Month (September - May): 6-9 pm
- Location: HAMP 2244
- Needs: No "needs" here. It's not even an official Dept event. It's just a bunch of us getting together to play board games. Everyone is welcome.

PUBLICATIONS

- Q. Xie, N.G.A. Gerrebos, D. Calderon-Arrieta, I.S. Morton, E.R. Halpern, C. Li, M.F. Zeng, A.K. Bertram, Y. Rudich, A. Laskin. Molecular Insights into Gas-Particle Partitioning and Viscosity of Atmospheric Brown Carbon. *Environmental Science and Technology*, 58, 41, 18284–18294, (2024). <https://doi.org/10.1021/acs.est.4c05650>
- Q. Xie, A. Laskin. Molecular Characterization of Atmospheric Organic Aerosols: Contemporary Applications of High-resolution Mass Spectrometry. *Trends in Analytical Chemistry*, 181, 117986, (2024). <https://doi.org/10.1016/j.trac.2024.117986>.
- Liu, Z., Rogers, B.M., Keppel-Aleks, G. and Welp, L. *et al.* Seasonal CO₂ amplitude in northern high latitudes. *Nature Reviews Earth & Environment* (2024). <https://doi.org/10.1038/s43017-024-00600-7>

MEETINGS/EXPOS/ OPPORTUNITIES OUTSIDE OF PURDUE

MASTER OF ARTS IN TEACHING EARTH SCIENCE RESIDENCY PROGRAM

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 \$40,000 stipend** towards the cost of living. 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 2025. 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 at mat@amnh.org or (212) 313-7464.

STUDENT PATHWAYS SCHOLARSHIP

now accepting applications for the Fall 2024 cycle. Please apply for the [Student Pathways Scholarship](#), which has a deadline of **December 1st, 2024!**

This scholarship is a one-time 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 obligations they may be dealing with. Apply here: [form is here](#).

NSF SOARS FIRST YEAR PROTÉGÉ APPLICATIONS OPEN

We are happy to announce that the NSF SOARS 2025 First-Year Protege Applications are now open until **January 21, 2025.**

Applications must be submitted through the SOARS website: <https://soars.ucar.edu/apply>
NSF SOARS is an undergraduate-to-graduate bridge program, designed to broaden participation of marginalized communities in the atmospheric and related sciences. Students are invited from multiple STEM disciplines including: chemistry, computer science, ecology, engineering, environmental studies, geography, mathematics, meteorology, oceanography, physics, science education, social sciences, and other related fields.

Program Benefits:

- Multiple-Year Support: Successful Protégés can participate in NSF SOARS for up to four years.
- Stipend: NSF SOARS Protégés work 40 hours a week for 11-weeks and earn a competitive wage.
- Housing and Transportation: The program provides furnished apartments, round-trip airfare, and a bus pass.
- Conferences: Protégés are funded to attend national scientific conferences to present their summer research.

Eligibility Requirements:

- Must be enrolled in a degree-granting institution
- Must not have received a Bachelor’s degree in STEM and at least one more semester left of undergrad.
- Must be a U.S. Citizen or Permanent Resident

For more information about the program and how to apply, visit <https://soars.ucar.edu/>

INTERNSHIP OPPORTUNITIES FOR GRADS AND UNDERGRADS - NRO

National Reconnaissance Office (NRO) is currently [accepting undergrad and graduate student intern applications](#) for summer 2025. This is what EAPS Alumna Mariah Romero had to say about this program:

“Last summer I supervised three interns that had broad backgrounds (environmental sciences, political science, and earth sciences). I strongly encourage EAPS grads and undergrads to apply. The NRO is interested in individuals from all STEM fields. The intern application is super quick, students just need to fill out the portal and upload their resume/CV and transcript. The ‘Apply Now’ button is buried under a lot of text and is at the very bottom, left side of the webpage.”

Additional links about NRO:

- <https://www.nro.gov/>
- <https://www.nro.gov/Careers/Student-Programs/Student-Opportunities/#cadreintern>

SCGSR GRADUATE STUDENT PROGRAM

The SCGSR 2024 Solicitation 2 (2024 S2) is now open for applications. You can see the solicitation at <https://science.osti.gov/wdts/scgsr/>.

The online application can be accessed at <https://apps.ornl.gov/SCGSR/Account>. The online application will last for 12 weeks and will close on **November 6, 2024, at 5:00PM ET.**

Three items for your attention: Please direct all questions to sc.scgsr@science.doe.gov.

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.

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.**

VENUS EXPLORATION ANALYSIS GROUP (VEXAG)

November 17-19, 2024
Louisville, KY / 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
[Meeting info](#)

56th LUNAR PLANETARY SCIENCE CONFERENCE

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

8th International Planetary Dunes Workshop

May 19-22, 2025
Sardina, Italy / Virtual
[Meeting info](#)

POSITIONS AVAILABLE- CAREER OPPORTUNITIES

- [Tenure-track Assistant Professor position in Geological Engineering, with a focus on geohydrology](#) - Department of Geological and Mining Engineering and Sciences at Michigan Technological University
- [Professor of Atmospheric and Oceanic Sciences](#), University of Wisconsin-Madison

- [Assistant Professor of Geography](#) (tenure track)- Ohio University
- [Future Faculty in the Physical Sciences \(FFPS\) Fellowship](#) – Princeton
- [Deep Learning and Coupled Human-Climate Postdoctoral Fellow](#) Colorado State
- [New Mexico 50yr Water Plan. We currently have 8 open positions to support this effort!](#)
 - [Junior Hydrogeologist](#) - Bachelor's degree in Earth Sciences required
 - [Senior Hydrogeologist](#) - Master's degree in Earth Sciences required
 - [Water Data Engineer/Developer](#) - Bachelor's degree in Computer Sciences required
 - [Database Developer/Administrator](#) - Associate's degree or 18+ months experience in computer sciences or related fields
 - [Geothermal Research Associate](#) - Master's degree in Geoscience/Geophysics/Engineering required
 - [Argon Lab Manager](#) - Master's degree in Argon geochronology
- [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)
- [Tenure-track Meteorology Faculty Position](#) – Valparaiso University
- [Multiple Positions with Enviroforensics](#)
- [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](#).