EAPS WEEKLY NEWSLETTER

December 5, 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


• 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]


NEWS/OPPORTUNITIES AT PURDUE

EAPS COLLOQUIUM –WENDY YANG
DECEMBER 8, 2022
HAMP 1252
3:30 – 4:30 p.m.

Wendy Yang is an Associate Professor at UIUC
Host: Ye Yuan

VISITING SPEAKER - JAKE EAGER-NASH

Jake Eager-Nash will be visiting Stephanie Olson’s group from the University of Exeter next Thursday, Dec. 8th. He will give a talk at 1:30p in HAMP 2201 titled: “Connecting Exoplanets to Archean Earth” in which he will use biogeochemical models and GCMs to explore early Earth environments and the prospects for life elsewhere. He has also expressed interest in one-on-one or small group meetings during his visit. Jake’s interests include Earth system evolution, biogeochemical cycles (esp. methane), planetary atmospheres and climate, and exoplant life detection. Sign up to meet with Jake here.

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.

http://www.eaps.purdue.edu/
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 new 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!

MEETINGS/EXPOS/OPPORTUNITIES OUTSIDE OF PURDUE

FELLOWSHIPS IN GEOPHYSICAL FLUID DYNAMICS AT WOODS HOLE OCEANOGRAPHIC INSTITUTION
June 20 to August 25, 2023

Since 1959 the GFD program has promoted an exchange of ideas among researchers in the many distinct fields that share a common interest in the nonlinear dynamics of fluid flows in oceanography, meteorology, geophysics, astrophysics, applied mathematics, engineering and physics. Each year, the program is organized around a ten-week course of study and research for a small group of competitively selected graduate-student fellows. The overall philosophy is to bring together researchers from a variety of backgrounds to provide a vigorous discussion of concepts that span different disciplines, and thereby to create an intense research experience. For the student fellows, the centerpiece of the program is a research project, pursued under the supervision of the staff. At the end of the program, each fellow presents a lecture and a written report for the GFD proceedings volume.

The Program commences with two weeks of Principal Lectures focusing on a particular theme in GFD. For 2023, the theme is "GFD on Other Worlds" and the lecturers will be Heather Knutson (Caltech), who will concentrate on recent observations from other worlds, and Geoff Vallis (University of Exeter), who will review our theoretical understanding of GFD on other worlds. Up to ten competitive fellowships are available for graduate students. Successful applicants will receive stipends of $7,793 and an allowance for travel expenses within the United States. A small number of unpaid fellowships may also be available for strongly qualified students who can support themselves financially. The application deadline is February 1, 2023. Awards will be announced by March 31, 2023. We seek applicants from all areas of Geophysical Fluid Dynamics, and particularly encourage applications from women and members of underrepresented groups. It is expected that fellows will be in residence for the full ten weeks of the program, and that visitors will spend extended periods of at least one week participating in the program. Further information and application forms may be obtained at https://gfd.whoi.edu, or by writing to: gfd@whoi.edu

Prospective visitors should contact Tiffany Shaw at tas1@uchicago.edu, or Pascale Garaud at pgaraud@soe.ucsc.edu

WHOI is an Equal Employment Opportunity/Affirmative Action Organization. The GFD Program is funded by the National Science Foundation and the Office of Naval Research.

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

http://www.eaps.purdue.edu/
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.

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. Predoctoral, 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 Predoctoral 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

ICES IN THE SOLAR SYSTEM
January 9-11, 2023
Montreal, Canada
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

http://www.eaps.purdue.edu/
• 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

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

Learn more here.
• 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 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.