

# EAPS WEEKLY NEWSLETTER

May 17, 2021

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## EAPS MEETINGS & EVENTS

NO MEETINGS SCHEDULED. SUMMER BEGINS.

[EAPS K-12 OUTREACH CALENDAR OF  
EVENTS](#)

[REPORT YOUR OUTREACH AND  
ENGAGEMENT ACTIVITIES](#)

## OUTREACH NEWS

Do you have part of a recorded lecture that would work for high school students? Do you have an idea for a virtual lab for K-12? Do you have cookies? Are you including a broader impacts section for your next grant? Contact our K-12 Outreach Coordinator, [Steven Smith](#).

The Purdue University Superheroes of Science Podcast is on most podcast players as well as [YouTube!](#)

Social sites:

[Facebook EAPS Outreach](#)

[Facebook Superheroes of Science](#)

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

## DEPARTMENTAL NEWS AND OPPORTUNITIES

### GRAD STUDENT EXPO 3 MINUTE THESIS WINNERS ANNOUNCED

Our annual graduate student Expo is held each February to serve as a platform for our graduate

students to present the research they are working on and to introduce our department to prospective graduate students. The Expo was restricted to being virtual this year, but was nevertheless a success in helping to recruit a great group of new graduate students. This success was especially helped by the great presentations made by a dozen of our students who presented their research in a 3-minute talk format. Two of these talks were chosen by our faculty as deserving of the Best 3-min Talk Award:

- **Adeene Denton** for her talk entitled: The Formation and Evolution of Sputnik Planitia, and
- **Tingyu Hou** for her talk entitled From Hillslope to Stream.

### **Congratulations to Adeene and Tingyu!**

This award is typically announced at our spring awards ceremony, which was cancelled due to the pandemic.

### **AWG CURRENTLY ACCEPTING APPLICATIONS FOR GEOSCIENCE INCLUSION, DIVERSITY, EQUALITY, AND ACCESSIBILITY (IDEA) SCHOLARSHIP**

The Association for Women Geoscientists (AWG) is currently accepting applications for its Geoscience Inclusion, Diversity, Equality, and Accessibility (IDEA) Scholarship (formerly known as the Minority Scholarship). We would LOVE if you can help us spread the word!

The Geoscience IDEA Scholarship exists to encourage women from under-served communities to pursue a career in Earth Science and to promote diversity in the future geoscience workforce. This Scholarship is open to undergraduates majoring in Geology or Earth Science. If you are in a position to encourage one or more undergraduate students who are eligible, please go to <http://awg.org/Awards> and scroll down to the Student Awards section for more information or to help someone apply.

**Deadline to apply is June 30, 2021.**

Lastly, all AWG Scholarships are funded through the AWG Foundation. If you or anyone you know is looking for a great cause to support and would like to help further the mission of AWG or this Scholarship, let's chat!

Lina Ma and Madeline Shaffer  
Geoscience IDEA Scholarship Committee  
Association for Women Geoscientists

## **LUNAR SURFACE WORKSHOP – CALL FOR ABSTRACTS**

The NASA Biological and Physical Sciences Division is hosting a workshop on fundamental and applied research on the Moon in physical sciences on August 18--19, 2021.

This workshop will bring together the science community, commercial companies, and NASA Divisions and Programs with the goals of discussing investigations on reduced gravity and lunar environmental effects in physical sciences research for sustained lunar human habitation and in preparation for human exploration to Mars and to inform and inspire the science community to contribute white papers for the Biological and Physical Sciences Decadal Survey.

Call for Abstracts

Abstract submission deadline -- June 18, 2021, 5:00 p.m. U.S. Central Daylight Time (GMT -5)

Abstracts are solicited for presentations and posters concerning reduced gravity and environmental effects of the Moon on physical systems.

- Lunar dust and its properties, behavior, and mitigation
- Life support and thermal management
- Materials flammability and habitat fire safety
- Extraction of water-ice from regolith research, including separation, purification, electrolysis, and liquefaction
- Lunar environment and its effects on materials
- Lunar research in extraction, processing, and handling
- Lunar research for advanced manufacturing
- Fundamental physics research on the lunar surface

### **Registration**

Registration fees are not being collected for this LSSW virtual session, but registration is required. To continue receiving e-mail updates about the session, including virtual login information, complete the electronic registration form.

Registration Deadline -- August 13, 2021

During the week of the virtual session, registered attendees will receive an e-mail from Houston Meeting Info with virtual connection information.

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## **OPPORTUNITIES WITH A&WMA**

The **Indiana Chapter of the Air & Waste Management Association (A&WMA)** is an international nonprofit, nonpartisan professional environmental organization whose goal is to

enhance knowledge and expertise by providing a neutral forum for information exchange, professional development, networking opportunities, public education, and outreach to environmental students and professionals. The Indiana Chapter is one of about 100 local chapters of the International A&WMA. Our Chapter has about 100 members and is a member of the East Central Section with over 750 members located in Indiana, Michigan, Ohio, and Kentucky. Student participation is key to A&WMA's success in supporting our mission and we hope that you will consider the opportunities described below.

**Student Chapters:** The Indiana Chapter is always looking for opportunities to sponsor student chapters of the A&WMA. Students can join the A&WMA at discount student membership rates which allows students the opportunity to network with over 8,500 environmental professionals worldwide via A&WMA's online membership directory as well as face-to-face at conferences and events held throughout the year. If you or a student you know is interested in establishing a student chapter, please contact Prof. Welp ([lwelp@purdue.edu](mailto:lwelp@purdue.edu)) to be connected to A&WMA leadership.

### **Environmental Challenge International**

**Competition:** The A&WMA hosts an annual conference and exhibition (ACE) each year. This year the ACE will be held **in a full-virtual, interactive format** from June 14<sup>th</sup>-17<sup>th</sup>. During each ACE, the Environmental Challenge International (ECi) competition is held where teams of students at all levels – undergraduate and graduate students – present a solution to an environmental challenge. Entrants must consider regulatory approaches, political and community issues, and technical and scientific solutions. In addition to developing professional contacts and potential mentors, student teams are eligible to win cash prizes! More information can be found at [A&WMA Annual Conference 2021](#).

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## **84TH ANNUAL MEETING OF THE METEORITICAL SOCIETY - AUGUST 14-21, 2021, CHICAGO**

You are cordially invited to Chicago to attend the [84th Annual Meeting of the Meteoritical Society](#) on August 14--21, 2021. We are planning for an in-person meeting and are excited to host those willing to travel. Travel awards will be available.

Online attendance will be possible for those who cannot travel to Chicago.

**Important dates:**

June 3, 2021- Abstract and travel award deadline (abstract templates and the submission forms will be available in May)

July 2, 2021- Program posted online

June 15, 2021- Early registration deadline at a reduced rate

August 14--21, 2021- 84th Annual Meeting of the Meteoritical Society in Chicago

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**SCHOLARSHIP OPPORTUNITY - SWANA**

SWANA, a solid waste disposal organization has statewide scholarships available to college students. Applicants must be student members of the organization but membership is free. [For more information.](#)

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**SCOLARSHIP OPPORTUNITY - IAGD**

The IAGD has been working to create new and exciting opportunities for both undergraduate and graduate students. They have now officially launched the [Student Pathways Scholarship](#). This scholarship opportunity is intended to provide funds for students with disabilities to alleviate the costs while completing their degrees. These funds can be widely used from paying for tuition, parking passes, groceries, rent, etc. In the age of COVID this is especially important, and for many of our student members it was important beforehand and will be afterwards.

**The deadline for this scholarship is June 1<sup>st</sup>.**

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**5TH PLANETARY DATA WORKSHOP AND PSIDA MEETING: ABSTRACT DEADLINE**

#planetdata2021

5<sup>th</sup> Planetary Data Workshop and  
2<sup>nd</sup> Planetary Science Informatics & Data  
Analytics Meeting

June 28-July 2, 2021 [Virtual](#)

This virtual meeting will bring together data users, providers, engineers, developers, and researchers to discuss approaches, challenges, applications of informatics, technologies, and capabilities in planetary science. Participants will have the opportunity to share knowledge, experience, and

lessons learned in these fields and network with colleagues.

**Registration deadline - June 23, 2021**

A registration fee is being collected for this meeting. Prior to the meeting, registered attendees will receive an e-mail from Houston Meeting Info with virtual platform connection information.

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**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](#).

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**EAPS GRAD STUDENT RESEARCH  
OPPORTUNITIES**

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

## UNIVERSITY NEWS

**2021-22 INTERNATIONAL PROGRAMS  
CURRICULUM GRANTS**

These grants are meant to encourage the development of online courses or projects with international partners that intentionally plan for intercultural learning outcomes. [Learn more.](#)

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## COVID VACCINES

[Purdue is offering COVID vaccines.](#) Have you been fully vaccinated? Purdue requests that you [submit documentation to Protect Purdue Health Center.](#)

**SPRING 2021 CALENDAR**  
**OFFICE OF GRADUATE PROFESSIONAL**  
**DEVELOPMENT**

Career Prep, Academic Career Track, Industry Career Track, Wellness, Research & Ethics, Communication, Grantsmanship, Post-Docs, & Diversity. All Spring 2021 Workshops are virtual. New Workshops are added regularly! For registration & additional information, [click here](#).

## **POSITIONS AVAILABLE- CAREER OPPORTUNITIES**

**TWO POSTDOC POSITIONS TO STUDY**  
**ENSO TELECONNECTIONS AT NOAA PSL**  
**IN BOULDER CO**

Two postdoc positions [start date ideally end of summer] available to study ENSO teleconnections at NOAA PSL in Boulder, CO.

**Application**

The first position below seems especially conducive to MAPpers: The two hires will perform research in the following areas:

1. Diagnosis of the atmospheric bridge on synoptic (i.e., weather) time scales, including its impact upon predictability. This research will examine how ENSO drives atmospheric and oceanic anomalies in the North Pacific on synoptic time scales, using both model and observational datasets. Key components of this analysis may include an assessment of model fidelity in capturing this process and an evaluation of atmospheric bridge synoptic impacts on the prediction of anomalies along the west coast of North America. Possible bridge feedbacks on the atmosphere may also be explored.
2. Diagnosis of the causes and impacts of the "westward shift" model error in ENSO simulation and prediction. This research will examine the development of the westward ENSO model error in the tropics and its subsequent impact upon ENSO global teleconnections, both observed and predicted, including impacts upon land precipitation and coastal marine conditions. This may include an analysis of observational and model heat budgets in the western tropical Pacific, diagnosis of the atmospheric dynamical response to ENSO simulation errors within a hierarchy of models, and evaluation of the relationship between these ENSO errors and the development of model forecast error.

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**WEEKEND METEOROLOGIST/MMJ**

Fox 55 in Fort Wayne is [looking for a weekend meteorologist/multi-media journalist](#) to join our growing team. The successful candidate will have a passion for weather and showing our viewers how it will affect them.

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**POSTDOCTORAL APPOINTEE – WIND ENERGY**  
**RESOURCE MODELER**

Argonne National Laboratory has a new Postdoc Appointee opportunity focusing on wind energy resource modeler. This role will be a part of their EVS – Environmental Sciences division under the direction of Rao Kotamarthi. This role will involve methodological and applied research related to wind energy resource characterization for onshore and offshore situations. Argonne National Laboratories are looking for a candidate that has completed their PhD within the last three years, or will be completing this summer. For more information, [click here](#).

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**RESEARCH CAREER OPPORTUNITY - CIMMS**

CIMMS Research Associate – MRMS  
Meteorological Analyst [position available](#).

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**UAH ATMOSPHERIC AND EARTH SCIENCE**  
**CLINICAL ASSISTANT PROFESSOR POSITION**

The Atmospheric and Earth Science (AES) Department at the University of Alabama in Huntsville (UAH) is in the process of hiring a Clinical Assistant Professor in atmospheric and Earth systems science. The main duties of this position will be undergraduate teaching, undergraduate and graduate academic advising and mentoring, and serving as a liaison between the AES Department and the on-site NASA Marshall Space Flight Center Short-term Prediction Research Transition Center (SPoRT) research group. For more information about this position, [click here](#).

# 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 (pierce81@purdue.edu) **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](#).