

EAPS WEEKLY NEWSLETTER

June 14, 2021

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EAPS MEETINGS & EVENTS

NO MEETINGS SCHEDULED.

[PURDUE CALENDAR 2021-22](#)
Fall Semester Begins August 23rd

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

OUTREACH NEWS

Superheroes of Science is always looking for interesting science to share.

If you would like to share an aspect of the science you are researching, contact [Steven](#) to set up an interview. Please consider subscribing, liking, and sharing videos for the channel.

Outreach has a number of programs to help you with your broader impacts and engagement activities.

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

APPLICATIONS OPEN FOR SC21 EARLY CAREER PROGRAM

Are you an early-career researcher or technical professional within the first five years of a permanent position in navigating a successful career path? Check out the [Early Career Program at SC21!](#)

The Early Career program provides a one-day series of special sessions for early-career researchers, educators, and technical professionals. This includes academic, industry, and laboratory staff and post-docs within the first five years of a permanent position. The Early Career program is available to participants by application only. The program will include engaging interactive sessions aimed at helping participants develop their professional skills, as well as a strategic vision for their future.

Early Career sessions will be held in a virtual workshop format on **Monday, November 15, 2021** (subject to change), before the full SC21 Program begins -- this allows participants to enjoy as much of the Technical Program as possible. The participants have networking opportunities throughout the day.

Important dates:

Applications Open February 15, 2021

Applications Close July 31, 2021

Notifications Sent August 31, 2021

For more information, and to apply please visit the [SC21 ECP Website](#).

REGISTRATION NOW OPEN FOR METEORITICAL SOCIETY ANNUAL MEETING August 15–21, 2021, Chicago, Illinois

The 84th Annual Meeting of the Meteoritical Society will be an in-person meeting held at the Hilton Chicago located downtown. Virtual attendance will be possible for those who cannot travel to Chicago.

Registration

- Early registration closes on June 15, 2021.
- Regular registration closes on July 30, 2021.
- The deadline to cancel registration with a full refund is July 30, 2021.

The Meteoritical Society will be implementing a series of health and safety protocols and onsite precautions in light of the ongoing COVID-19 pandemic. As new developments arise over the coming months, our approach will adapt, and we will keep the community informed of any changes. [More information](#)

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.

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.](#)

5TH PLANETARY DATA WORKSHOP AND PSIDA MEETING: ABSTRACT DEADLINE

#planetdata2021

5th Planetary Data Workshop and
2nd 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.

**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

THE LATEST PUBLICATIONS FROM EAPS

(in no particular order)

Sharma, M., R. L. Tanamachi, E. C. Bruning, and K. M. Calhoun, 2021: Polarimetric and Electrical Structure of the 19 May 2013 Edmond-Carney, Oklahoma Tornadoic Supercell. *Monthly Weather Review*, **149**, 2049--2078, <https://doi.org/10.1175/MWR-D-20-0280.1>.

Dai, J.G., Fox, M., Han, X., Tremblay, M.M., Xu, S.Y., Shuster, D.L., Liu, B.R., Zhang, J. and Wang, C.S., 2021. Two stages of accelerated exhumation in the middle reach of the Yarlung River, southern Tibet since the mid-Miocene. *Tectonics*, p.e2020TC006618.

Zhang, C., W.-w. Tung, and W.S. Cleveland, (2021), In Search of The Optimal Atmospheric River Index for US Precipitation: A Multifactorial Analysis, *J. Geophys. Res.*, doi: 10.1029/2020JD033667

Geochemical Characterization and Heavy Metal Sources in PM10 in Arequipa, Peru by Jianghanyang Li 1,*; Greg Michalski 1,2; Elizabeth Joy Olson 1OrCID; Lisa R. Welp 1OrCID; Adriana E. Larrea Valdivia 3,4OrCID; Juan Reyes Larico 3,4; Francisco Alejo Zapata 3,4OrCID and Lino Morales Paredes 3,4; <https://www.mdpi.com/2073-4433/12/5/641>

<https://www.mdpi.com/2073-4433/12/5/641>

Zhang, C., W.-w. Tung, and W.S. Cleveland, (2021), "Purdue" Data in ARTMIP Tier 1 Catalogues, doi:10.5065/D6R78D1M

Lianhai Zhang, Qianlai Zhuang, Zhi Wen, Peng Zhang, Wei Ma, Qingbai Wu, Hanbo Yun, Spatial state distribution and phase transition of non-uniform water in soils: Implications for engineering and environmental sciences,

Advances in Colloid and Interface Science, 2021, 102465, ISSN 0001-8686, <https://doi.org/10.1016/j.cis.2021.102465>. (<https://www.sciencedirect.com/science/article/pii/S0001868621001068>)

Koch, C.D., Delph, J.R., Beck, S.L., Lynner, C., Ruiz, M., Hernandez, S., Samaniego, P., Meltzer, A., Mothes, P., Hidalgo, S. (2021) "Crustal thickness and magma storage beneath the Ecuadorian arc", *J. South Am. Earth Sci.*, 110, 103331.

<https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2020JE006769>

<https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2019EA001013>

<https://doi.org/10.1016/j.jsames.2021.103331>

<https://www.sciencedirect.com/science/article/pii/S0019103521000427>

UNIVERSITY NEWS

COURSE CATALOG NOW AVAILABLE

The 2021-22 Purdue Course Catalog is now [available online](#).

**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](#).

OLD GOLD VACCINATION DRAWING FOR STUDENTS

For 10 Boilermakers, COVID-19 vaccination will be the golden ticket to winning \$9,992 — the equivalent of a year's undergraduate tuition cost for an in-state Boilermaker. Ten students who submit valid proof that they are fully vaccinated against COVID-19 by July 15 will be randomly selected and announced by July 29. The drawing is open to current and admitted students enrolled for the fall 2021 semester on the West Lafayette campus. All undergraduate, graduate student and professional degree-seeking students, regardless of residency, are eligible to enter and win. [Read more.](#)

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

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.

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.](#)

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.](#)