

EAPS WEEKLY NEWSLETTER

April 28, 2025

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EAPS MEETINGS & EVENTS

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CONGRATS, KUDOS, COOL STUFF, AND THUMBS UP!

- Congratulations to Jaime Herriott on her successful M.S. thesis defense!
- Margaret Deahn's work ([NASA finds mysterious skull-shaped feature on Mars – where stargazers say it doesn't belong](#)) has earned over 143 million earned media! Very exciting!
- Dr. Robin Tanamachi was quoted in an article from the Independent over the weekend! <https://www.independent.co.uk/news/science/tornado-research-formation-weather-chasers-b2739535.html>
- Many EAPS members traveled up to the Kentland Crater over the weekend!



NEWS/OPPORTUNITIES AT PURDUE

EAPS SEMINAR – BRANDON BOOR

Thursday, May 1, 3:30 pm in HAMP 1252

Brandon Boor is the Dr. Margery E. Hoffman Associate Professor here at Purdue. Hosted by the Seminar Committee.

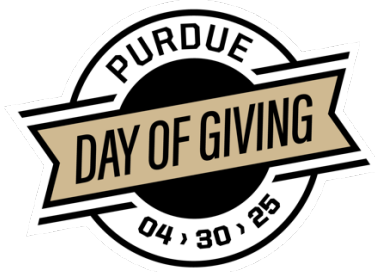
PLANETARY CAPSTONE FINAL PROJECT POSTER SESSION

The Seniors in EAPS 400 Planetary Capstone will be presenting their final project posters on **Today, April 28 in Hampton 2102 at 12:30pm**, and you are invited to come see them! The four mission concept studies were chosen based on a proposal peer review process by the students themselves.

PURDUE UNIVERSITY DAY OF GIVING

Purdue Day of Giving will be this **Wednesday, April 30 from Midnight to 11:59 PM**. Please share the link "Give Now" below for donors to select the EAPS department!

College of Science	Select Your Department	Give Now
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JOSÉ OCEGUEDA SANCHEZ'S

PH.D. PRELIMINARY EXAMINATION PUBLIC TALK

Thursday, May 1st in HAMP 2201 at 9:30 AM ET.

His talk is entitled "Climatology of ITCZ Breakdown Events and Their Impact on East Pacific Tropical Cyclogenesis". The zoom link is below:

<https://purdue-edu.zoom.us/j/4594697777?omn=93817704171>

SENIOR HONORS CELEBRATION

Mark your calendar and join us as we celebrate the incredible achievements of you, one of our outstanding seniors, at the *Spring into Excellence: Senior Honors Celebration!*

Date: May 1, 2025

Time: 3:00 – 5:00 PM ET

Location: DSAI 1069

This special event will honor the hard work and dedication of many of our outstanding seniors in the College of Science. Connect with peers, professors, and mentors while enjoying crafts, interactive activities, and delicious refreshments!

EAPS AWARD RECEPTION SAVE THE DATE

The annual EAPS awards reception will take place on **Friday, May 2, 2025**. It will be held in the Shively Club at Purdue Ross-Ade Pavilion from 5pm-9pm. Drinks and hors d'oeuvres (NOT dinner) will start at 5:00 and the reception opening will begin around 6pm.

Registration was sent out by email via EAPS-SCI.

UNIVERSITY OF SCOUTING -

GEOLOGY/OCEANOGRAPHY MERIT BADGE

On **Saturday, 6 December**, Scouting America (formerly Boy Scouts of America) will host a University of Scouting event on Purdue's campus. They are looking for volunteers who can teach the geology or oceanography merit badges (see attached). Courses can run 9am-12pm or 1-4pm. If you are interested, please reach out to Byron Haverstick, Chief Operating Officer of the Sagamore Council,

at Byron.haverstick@scouting.org. He will work with you on supplies, pre-work from the scouts, background checks, etc.

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.

EAPS Community Social Hours

On behalf of the EAPS DEI Committee, we are writing to affirm our department's dedication to building an inclusive learning environment where students, postdocs, staff, and faculty from diverse backgrounds and perspectives can succeed. Our department is committed to creating a welcoming and inclusive culture where everyone can thrive as their full authentic selves. We also want to acknowledge that current events happening at the local, state, national, and global level can impact what we're able to bring to our science and work. Going forward, we will be hosting EAPS "Community Social Hours" on **Tuesdays from 1:30–2:30 pm in HAMP 2201** that are open to all to be together, support each other, and build community. Please feel free to stop by and hang out. You can join us for a cup of coffee or to eat your lunch, chat about what's on your mind, bring your laptop and brainstorm how to make a cool new plot, or come sit with us and just 'be'. You are welcome to invite friends and colleagues from other parts of campus as well. – Dr. Ali M. Bramson and the DEI Committee.

ClimART Competition for Purdue EAPS (and collaborators)

ClimART is a friendly climate and art competition for Purdue EAPS (and collaborators). This event celebrates both the art within your research and the science-inspired art you create for fun! We believe art is a powerful way to say "Hey, this is me" even on paper.

Event coming **September 2025 — exact date TBA.**

OUTREACH NEWS

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](#).

Ongoing:

- Purdue University Kids STEM Degree
- Science From the Expert

See all of our videos on the Superheroes of Science YouTube channel:

<https://www.youtube.com/c/SuperheroesofScience>

Social sites:

[Instagram](#)
[Facebook Superheroes of Science](#)

PUBLICATIONS

- **Laferriere, K.L., A.M. Bramson, A. Gleason (2025)** Quantities of Ballistically Hopping Water Molecules on the Moon: Consistent With Exospheric Hydration Observations. *JGR-Planets*, 130, 4, e2024JE008628. <https://doi.org/10.1029/2024JE008628>
- **Petrini, E.Z. and M.M. Sori (2025)**, Layered remnant deposits in Hellas Planitia, Mars as the remains of ancient ice mounds, *Icarus*, 116604. <https://doi.org/10.1016/j.icarus.2025.116604>
- **Liu, X., Griffin, A., Komurcu, M., & Huber, M. (2025)**. Importance of longwave radiative forcing by icy clouds in maintaining miocene high-latitude warmth. *Geophysical Research Letters*, 52, e2024GL111831. <https://doi.org/10.1029/2024GL111831>
- **Vannier H, Redfield S, Wood B E, Mueller H R, Linsky J L, Frisch P (2025)**. Mapping the Local Interstellar Medium: Using Hubble to Look Back at the ISM Along the Sun’s Historical Trajectory. *The Astrophysical Journal*, 981, 2, doi:10.3847/1538-4357/adb033
- **Chen, S., Liu, L., Ma, Y., Zhuang, Q., & Shurpali, N. J. (2024)**. Quantifying global wetland methane emissions with in situ methane flux data and machine learning approaches. *Earth's Future*, 12, e2023EF004330. <https://doi.org/10.1029/2023EF004330>. [PDF](#)
- **Liu, L., Zhuang, Q., Zhao, D., Wei, J., & Zheng, D. (2024)**. The fate of deep permafrost carbon in northern high latitudes in the 21st century: A process-based modeling analysis. *Earth's Future*, 12, e2024EF004996. <https://doi.org/10.1029/2024EF004996>. [PDF](#)
- **X. Liu, Q. Zhuang, C. Liao and M. T. Jorgenson 2025**, Changes in soil water content and lateral flow exert large

effects on soil thermal dynamics across Alaskan landscapes *Environ. Res. Lett.* 20 024056, <https://doi.org/10.1088/1748-9326/adaa05>. [PDF](#)

- Zhang, Z., Poulter, B., Melton, J. R., Riley, W. J., Allen, G. H., Beerling, D. J., Bousquet, P., Canadell, J. G., Fluet-Chouinard, E., Ciais, P., Gedney, N., Hopcroft, P. O., Ito, A., Jackson, R. B., Jain, A. K., Jensen, K., Joos, F., Kleinen, T., Knox, S. H., Li, T., Li, X., **Liu, X.**, McDonald, K., McNicol, G., Miller, P. A., Müller, J., Patra, P. K., Peng, C., Peng, S., Qin, Z., Riggs, R. M., Saunio, M., Sun, Q., Tian, H., Xu, X., Yao, Y., Xi, Y., Zhang, W., Zhu, Q., Zhu, Q., and **Zhuang Q.**: Ensemble estimates of global wetland methane emissions over 2000–2020, *Biogeosciences*, 22, 305–321, <https://doi.org/10.5194/bg-22-305-2025>. [PDF](#)
- **Chen, S., Zhuang, Q.**, Taheripour, F., **Yuan, Y.** and Benavidez, L., 2025. Assessment of global land cover changes using satellite data: intermittent and long-term land cover changes from 2001 to 2020. *Environmental Research Letters*, 20(3): 034045. DOI 10.1088/1748-9326/adb5a3
- Blevins, A. M., Minton, D. A., Huang, Y. H., Du, J., Tremblay, M. M., & Fassett, C. I. (2025). Apollo Impact Melts Record a Rapidly Declining Impact Rate in the Late Imbrian. *Journal of Geophysical Research: Planets*, 130(2), e2024JE008722. <https://doi.org/10.1029/2024JE008722>
- Fred-Velez, K., **S.L. Pérez Cortés, A.M. Bramson**, T.R. Hudgins (2025) Mapping of Potential Mass Wasting on Enceladus. *Icarus*, 430, 116471, doi:10.1016/j.icarus.2025.116471. <https://doi.org/10.1016/j.icarus.2025.116471>
- Morgan, G.A., N.E. Putzig, D.M.H. Baker, A. Pathare, C.M. Dundas, M. Russell, M.R. Perry, M. Chojnacki, H.G. Sizemore, **A.M. Bramson**, E.I. Petersen, S. Nerozzi, R.H. Hoover, Z. Bain (2025) Refined Mapping of Subsurface Water Ice on Mars to Support Future Missions. *Planetary Science Journal*, 6, 29, doi:10.3847/PSJ/ad9b24. <https://doi.org/10.3847/PSJ/ad9b24>
- F.A. Rivera-Adorno, L. Azzarello, M.A. Robinson, Z. C. J. Decker, R.A. Washenfelder, S K. Hayden, A. Franchin, C. D. Holmes, C.J. Young, C.D. Fredrickson, B. Palm, C. Schmidt, A. Soja, E. Gargulinski, S. S. Brown, A.M. Middlebrook, **A. Laskin**. Aircraft Measurements from a U. S. Western Wildfire Demonstrating Day and Night Differences in Chemical Composition and Optical Properties of Biomass Burning Aerosols and their Atmospheric Evolution. *ACS Earth and Space Chemistry*, 9, 64-75, (2025). <https://doi.org/10.1021/acsearthspacechem.4c00215>
- Zhang, O., & **Schmitt, D. R.** (2025). An optimized 2D/3D Finite-difference Seismic Wave Propagator Using Rotated Staggered Grid for Complex Elastic Anisotropic Structures. *Computers & Geosciences*, 105850. <https://doi.org/10.1016/j.cageo.2024.105850>
- Marder, E., Gallen, S.F., Lifton, N.A., Rittenour, T.M., 2025, The Colorado Rocky Mountains awaken: Understanding topographic rejuvenation in postorogenic

mountain belts: GSA Today, v. 35, p. 4– 11,
<https://doi.org/10.1130/GSATG598A.1>.

- **A. Laskin**, C.P. West, A.P.S. Hettiyadura. Molecular Insights into the Composition, Sources, and Aging of Atmospheric Brown Carbon. *Chemical Society Reviews*, 54, 1583–1612, (2025). <https://doi.org/10.1039/D3CS00609C>
- **Kling, A. M.**, Greer, J., **Thompson, M. S.**, Heck, P. R., Isheim, D., & Seidman, D. N. (2025). Nanoscale reservoirs store solar wind-derived water on the lunar surface. *Earth and Planetary Science Letters*, 651, 119178. <https://doi.org/10.1016/j.epsl.2024.119178>

MEETINGS/EXPOS/ OPPORTUNITIES OUTSIDE OF PURDUE

Next Generation Fellowship

The Next Generation Fellowship is a 2 year program for students currently enrolled in graduate studies related to Earth System Sciences at a North American university (USA, Mexico, Canada). This program provides the opportunity for Fellows to explore the interplay between Earth System Science and its impact on society.

During their two year fellowship, Fellows pursue one of three tracks - Earth System Science Research; Transdisciplinary and Convergence Research; or Science Policy - collaborating with UCAR experts while participating in dedicated professional development and leadership training opportunities. Each Fellow receives a \$40,000 fellowship award over two years (\$10,000 twice per year); up to 20 weeks of paid research trips to Boulder, Colorado or Washington, D.C. or other agreed upon location; funding to attend conferences, professional coaching; and the support of a like minded cohort. We are holding information sessions on [March 14th](#) and [April 22](#). Click on each date to register.

Applications must be submitted in full by **May 31st, 2025** via the UCAR program website: <https://www.ucar.edu/opportunities/fellowships/ucar-next-generation-fellowships>
For more information, please reach out to our Program Coordinator, [Claire Rafferty](#).

Northern Illinois Field Methods in Environmental Geosciences Summer Course

The Department of Earth, Atmosphere and Environment at Northern Illinois University will be offering our Field Methods in Environmental Geosciences course (EAE 477, 5 credits) this summer

from **May 19 – June 18, 2025**. Our environmental field camp is designed to train students in field methods and integrative problem-solving preparing students for careers in the environmental geosciences sector.

The course covers topics such as field methods in hydrogeology, surface water and vadose-zone hydrology, water quality analysis, environmental surface geophysics, site evaluation and techniques, and regional landscape history and environmental change.

We accept undergraduate and graduate students. Students must have taken a hydrogeology course before enrolling in this field course. For more information please go to our [website](#) or contact [Megan Brown](#).

NIU also offers OSHA's Hazardous Waste Operations & Emergency Response (HAZWOPER) training through a 1 credit course, EAE 408, which will be offered **May 12 – 16, 2025**. The 40-hour HAZWOPER Training is required for many environmental geoscience jobs and is a great addition to any resume. Housing is also available on campus during this course. For more information, please visit to our [website: go.niu.edu/HAZWOPER](https://go.niu.edu/HAZWOPER).

Accepting Applications for Office of Science Graduate Student Research Awards

The U.S. Department of Energy's (DOE) Office of Science is pleased to announce that the Office of Science Graduate Student Research (SCGSR) program is now accepting applications for the 2025 solicitation 1 cycle. Applications are due on Wednesday, **May 7, 2025, at 5:00 p.m. ET**.

SCGSR application assistance workshops will be held **on March 6, 2025, 2:00 p.m.–3:30 p.m. ET and April 10, 2025, 2:00 p.m.–4:30 p.m. ET**. The first

workshop will provide a general overview of the program and the application requirements. It will also include a time for attendees to discuss their potential research topics and their alignment with the SCGSR priority areas with managers of each participating program office; [register here](#). The second workshop will guide attendees through the application process, answer general questions, provide guidance on proposal writing, and feature discussions with scientists and former awardees; [register here](#). SCGSR is open to U.S. Ph.D. students in qualified graduate programs at accredited U.S. academic institutions, who are conducting their graduate thesis research in targeted areas relevant to DOE's Office of Science. More information on the SCGSR program can be

found by visiting the [SCGSR program website](#), by [emailing the SCGSR team](#).

SEG 2025–2026 Distinguished Instructor Short Course

What if seismic tools could make our cities smarter, safer, and more sustainable?

They can — and Dr. Yunyue Elita Li is here to show you how.

Launching at [IMAGE '25](#) the SEG 2025–2026 Distinguished Instructor Short Course will equip geoscientists, engineers, and decision-makers with seismic methods tailor-made for urban environments.

Learn to: Assess risk in dense urban areas
Improve decision-making with seismic data
Integrate geophysics into engineering practice
Use seismic techniques for minimal-impact monitoring.

The tour is kicking off in **Aug '25** and will last until **Aug '26**.

Save the date and learn more here:
<https://go.seg.org/3Ec9C8d>

WESTERN KENTUCKY UNIVERSITY SEEKING FOUR M.S. GRAD STUDENTS

The Department of Earth, Environmental, and Atmospheric Sciences ([EEAS](#)) at Western Kentucky University ([WKU](#)) is inviting applications for four M.S.-level [graduate students](#) to start **August 2025**. Students will work as a part of the state-wide CLIMBS (<https://kynsfepscor.uky.edu/climbs/>) initiative, a 5-year, \$20 million National Science Foundation EPSCoR grant to advance research in climate resilience for Kentucky. The successful applicants will be expected to contribute to one of the following projects: (a) Identification and analysis of the synoptic-scale atmospheric environments associated with high-impact weather; (b) Dynamical downscaling of future 21st century climate projections for the Mid-South region of the U.S.; (3) Comprehensive assessment of historical state-wide weather and climate-related threats and hazards; and (4) An historical, wide-ranging study of casualties associated with high-impact weather and climate events.

These positions include a 12-month stipend and tuition. Applicants should have a B.S. degree in the atmospheric, environmental, or geographic sciences, or a closely related discipline. Prior experience in computer programming (e.g., Python, FORTRAN, NCL, Linux shell scripting) is necessary, and experience in application to climatic processes, numerical weather simulation, and/or AI-driven data analytics is preferred.

Interested candidates are encouraged to contact Dr. Jerry Brotzge (<Jerald.brotzge@wku.edu>) for more information.

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.

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.

RECRUITMENT FOR CoCoRaHS

The Community Collaborative Rain, Hail, and Snow Network (CoCoRaHS) is looking for more weather observers throughout Indiana and beyond. By participating in CoCoRaHS, farmers contribute valuable data that supports better agricultural decisions, weather-related products, and faster recovery during severe weather events. The application for U.S. participants is at <https://www.cocorahs.org/application.aspx>

2025 AMS Denver Summit -

36th Conference on Agricultural and Forest Meteorology, 18th Conference on Polar Meteorology and Oceanography, 15th Fire and Forest Meteorology Symposium, and Seventh Conference on Biogeosciences
May 12-16, 2025
Denver, CO / Virtual
[Meeting info](#)

8TH INTERNATIONAL PLANETARY DUNES WORKSHOP
May 19-22, 2025
Sardina, Italy / Virtual
[Meeting info](#)

**52nd Conference on Broadcast and Digital
Meteorology and 21st Conference on Mesoscale
Processes**
June 23-26, 2025
Boise, ID / Virtual
[Meeting info](#)

**87TH ANNUAL MEETING OF THE METEORITICAL
SOCIETY (METSOC)**
July 14-18, 2025
Perth, Western Australia
[Meeting info](#)

41st International Conference on Radar Meteorology
August 18-22, 2025
Ontario, Canada / Virtual
[Meeting info](#)

**WORKSHOP ON BENNU AND RYUGU:
SAMPLES FROM THE EARLY SOLAR SYSTEM**
October 7-9, 2025
Houston, TX / Virtual
[Meeting info](#)

SECOND WORKSHOP ON ICES IN THE SOLAR SYSTEM
January 5-7, 2026
Montreal, Canada

POSITIONS AVAILABLE- CAREER OPPORTUNITIES

- [Postdoc Opportunity at the University at Albany](#) - Postdoctoral Research Associate in evaluating flood risk management and NYC water supply reliability in the Catskill and Delaware River watersheds. **Application deadline: May 9, 2025.** Please submit the application materials, as a single PDF, to Dr. Justin Minder (jminder@albany.edu) and Dr. Brian Tang (btang@albany.edu).
- [Postdoctoral Fellow - Atmospheric Observations](#) – University of Puerto Rico
[Postdoctoral Fellow - Interdisciplinary Climate Science](#) – University of Puerto Rico
 - Interested candidates email:
 - Dii Email Dr. Héctor Jiménez (hectorj.jimenez@upr.edu) and Dr. Rosimar Rios-Berrios (rberrios@ucar.edu)
- [Assistant Professor of Meteorology-Aviation](#) – Tenure-Track University of Oklahoma, Norman, OK
- [Open Rank Professor, Atmospheric Sciences, Tenure Track](#) – University of North Dakota
- [Future Faculty in the Physical Sciences \(FFPS\) Fellowship](#) – Princeton
- [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](#)

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 [David Siple](#) 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](#).

NEWSLETTER INFO

IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter is used as the primary information source for current and upcoming events,

http://www.eaps.purdue.edu/		Page 7 of 7
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