

EAPS WEEKLY NEWSLETTER

24 August 2020

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DEPARTMENT NEWS



MESSAGE FROM EAPS DEPARTMENT HEAD

2020 has presented our Department and University with not one but two challenges. First, the ongoing COVID pandemic and, more recently, the continuing racial issues and discrimination we as a country need to address. Neither of these follows the format of a TV Sitcom with an easy solution in

Earth Atmospheric Planetary Sciences



EAPS MEETINGS & EVENTS

FACULTY MEETINGS (3-5/pm Virtual)

September 8
September 22
October 6
October 13
November 3
November 10
December 8 (if necessary)

PRIMARY COMMITTEE MEETINGS (3-5/pm Virtual)

September 29
October 20 (if necessary)

EAPS K-12 OUTREACH CALENDAR OF EVENTS

http://www.eaps.purdue.edu/outreach/Outreach_News.html

REPORT YOUR OUTREACH AND ENGAGEMENT ACTIVITIES

<http://bit.ly/EAPSOut>

30 minutes. Instead, we will be working together to solve both problems, more than likely for years to come.

As we start the fall semester, I want to express my sincere thanks to everyone in the Department for the hard work they have put in to addressing both problems. We've spent a great deal of time planning a course of action to increase inclusion and improve our diversity while simultaneously revamping our teaching for both in person and online options.

~Dr. Daniel J. Czicz

COLLOQUIA NEWS AND SCHEDULE

Greetings EAPS Students and Faculty,

Welcome back! This semester all colloquia can be accessed virtually and we will continue to have opportunities for students and faculty to meet with speakers individually and in small groups; signups to meet with speakers and more details will be available closer to the date of their talk.

The first EAPS Colloquium will take place in the form of a **VIRTUAL** Welcome Back One Minute Research Madness Social on **Thursday August 27th at 3:30 pm**, and it will be presented by YOU!!

This is a great opportunity to briefly share your research with the department and introduce yourself to the new members of the department.

The presentation style and content is up to you, however you are **ONLY** allowed one slide and 60 seconds to present. Violators may be buzzed off stage, so please practice timing yourself beforehand!

[Submit your slide and abstract HERE!! for the August 27th Research Social](#)

We encourage everyone to present and attend the Virtual Research Social.

Thank you in advance for your continued participation and we look forward to all your presentations.

EAPS MAIN OFFICE CLERICAL STAFF SCHEDULE **HAMP 2169 - # 494-3258**

Mondays & Tuesdays – Kathy Kincade
Wednesdays – Katherine Huseman
Thursday & Fridays – Sandy Danford

INVITED TALKS AND PRESENTATIONS

Nowack, R. L. (2020) Seismic Interferometry, Redatuming and Scattering for Imaging, Invited Talk given at Peking University on August 17, 2020, (via Zoom).

EAPS NEW PUBLICATIONS

Jianghanyang Li, Xuan Zhang, John Orlando, Geoffrey Tyndall, and **Greg Michalski**, 2020: Quantifying the nitrogen isotope effects during photochemical equilibrium between NO and NO₂: implications for δ¹⁵N in tropospheric reactive nitrogen. *Atmospheric Chemistry and Physics*. <https://acp.copernicus.org/articles/20/9805/2020/>

Newall, J., Dymova, T., Serra, E., Blomdin, R., Fredin, O., Glasser, N., Sukanuma, Y., **Harbor, J.**, Stroeven, A. 2020 The Glacial Geomorphology of Western Dronning Maud Land, Antarctica. *Journal of Maps*, 16:2, 468-478, <https://doi.org/10.1080/17445647.2020.1761464>

Yao, P., Wang, J., **Harbor, J.**, Wang, F, Zou, L., Wang, W., Chen, X., 2020, The relative efficiency and influence of glacial and fluvial erosion on Tibetan Plateau landscapes. *Geomorphology*, 352, <https://doi.org/10.1016/j.geomorph.2019.106988>

Yang, M., Lowell, V., Talafha, A., **Harbor, J.**, 2020. Transfer of Training, Trainee's Attitudes and Best Practices in Training Design: A Multiple-Case Study. *Tech Trends*, 2/2020: <https://doi.org/10.1007/s11528-019-00456-5>

Liu, L., Zhuang, Q., Oh, Y., Shurpali, N. J., Kim, S., & Poulter, B. (2020). Uncertainty quantification of global net methane emissions from terrestrial ecosystems using a mechanistically based biogeochemistry model. *Journal of Geophysical Research: Biogeosciences*, 125, e2019JG005428. <https://doi.org/10.1029/2019JG005428.PDF>

Guo, M., Q. Zhuang, Z. Tan, N. Shurpali, S. Juutinen, P. Kortelainen and P. Martikainen, 2020, Rising methane emissions from boreal lakes due to increasing ice-free days, *Environ. Res. Lett.* 15 064008. <https://doi.org/10.1088/1748-9326/ab8254>. PDF

Wang S, Adhikari K, **Zhuang Q,** Yang Z, Jin X, Wang Q, Bian Z. 2020. An improved similarity-based approach to predicting and mapping soil organic carbon and soil total nitrogen in a coastal region of northeastern China. *PeerJ* 8:e9126 <http://doi.org/10.7717/peerj.9126>. PDF

Yu, T. and Zhuang, Q.: Modeling biological nitrogen fixation in global natural terrestrial ecosystems, *Biogeosciences*, 17, 3643–3657, <https://doi.org/10.5194/bg-17-3643-2020>, 2020.

Rocadenbosch, F., R. Barragan, S. J. Frasier, J. Waldinger, D. D. Turner, **R. L. Tanamachi,** and **D. T. Dawson II,** 2020: Ceilometer Based Rain-Rate Estimation: a Case-Study, Comparison with S-Band Radar and Disdrometer Retrievals in the Context of VORTEX-SE. *IEEE-TGRS*, <https://doi.org/10.1109/TGRS.2020.2984458>.

Tanamachi, R. L., D. T. Dawson, and L. C. Parker, 2020: Students of Purdue Observing Tornadoic Thunderstorms for Research (SPOTTR): A severe storms field work course at Purdue University. *Bull. Amer. Meteor. Soc.*, **101**, E847–E868, <https://doi.org/10.1175/BAMS-D-19-0025.1>.

Sun, W.Y., and , O. M. Sun, 2020: Inertia and diurnal oscillations of Ekman layers in atmosphere and ocean. *Dynamics of Atmosphere and Oceans*, 90, (2020),101144.

Haines, P., **W, Y, Sun,** S. H. Chen, W. R. Hsu, and M. E. Hsieh, 2019: NTU/PU model simulations and observed flow over mountain. *Terr. Atmos. Ocean. Sci.* 30, 171-184.

Sun, W.Y., and O. M. Sun, 2019: Revisiting the parcel method and CAPE, *Dynamics of Atmospheres and Oceans* 86, 134-152.

Lin, M-Y, **W. Y. Sun,** M-D. Chiou, C-Y. Chen, H.-Y. Cheng, and C.-H. Chen, 2019: Development and evaluation of a storm surge warning system in Taiwan. *Ocean Dynamics*. <https://doi.org/10.1007/s10236-018-1179-z>.

Wang S, Adhikari K, **Zhuang Q,** Yang Z, Jin X, Wang Q, Bian Z. 2020. An improved similarity-based approach to predicting and mapping soil organic carbon and soil total nitrogen in a coastal region of northeastern China. *PeerJ* 8:e9126 <http://doi.org/10.7717/peerj.9126>

Prince, B. S., Magnuson, M. P., **Chaves, L. C., Thompson, M. S.,** & Loeffler, M. J. (2020). Space weathering of FeS induced via pulsed laser irradiation. *Journal of Geophysical Research: Planets*, 125, e2019JE006242. <https://doi.org/10.1029/2019JE006242>.

PROFESSOR LAURA PYRAK-NOLTE - REGINALD FESSENDEN AWARD RECIPIENT

Congratulations to Laura Pyrak-Nolte on being the recipient of the Reginald Fessenden Award of the Society of Exploration Geophysicists. The Reginald Fessenden Award recognizes a person who has made a specific technical contribution to exploration geophysics which merits special recognition. Well done and well deserved Professor Pyrak-Nolte. Congratulations!

EAPS ALUMNI FOUNDERS SIGNATURE PROGRAMS RECEIVES AMAZING RECOGNITION

Angel Torres- Valcárcel (EAPS PhD 2013) <https://www.linkedin.com/in/angel-torres-valcárcel-719434167/>. One of our EAPS alumni founded an environment / sustainability nonprofit in Puerto Rico, and one of its signature programs is a Sustainable Schools Program.

This program just received an amazing recognition “**A National Energy Globe Award**” – this is a worldwide recognition for sustainability efforts: <https://www.energyglobe.info/national/winner/puertorico>.

OUTREACH NEWS

If you know an educator, let them know we have made and have been updating the College of Science's e-learning page. We have created

worksheets to go along with many of our Superheroes of Science podcasts, put together a list of online resources (arranged by content), created Virtual Tours, and posted videos of various content demos. These resources are being updated regularly! <http://bit.ly/PUElearning>

Speaking of resources, we have been working to create virtual tours of the departmental wall wraps and other campus resources. Check out the current draft of the Gold Mine display: <https://bit.ly/EAPSGold>

The Purdue University Superheroes of Science Podcast is on most podcast players as well as YouTube! Check out some of the latest episodes including interviews with Jeffery Lucas, Christopher Roemmele, Jani Sparks, and Birgit Kaufmann. EAPS K-12 Outreach is on Twitter (@Purdue SOS), YouTube (Superheroes of Science), Facebook (EAPS.out), Pinterest, and most podcast players as Purdue Superheroes of Science.



ACCOUNTABILITY, CLIMATE, EQUITY, AND SCHOLARSHIP (ACES) FELLOWS PROGRAM

Texas A&M University's [College of Geosciences](#) invites applications for the Accountability, Climate, Equity, and Scholarship (ACES) Fellows Program. In recognition of Texas A&M University's Diversity Plan, the ACES faculty pipeline initiative promotes the research, teaching, and scholarship of early career scholars who embrace the belief that diversity is an indispensable component of academic excellence. ACES Fellows will benefit from: prescriptive mentoring, access to instructional best practices, a vast array of world-class research and productivity resources, and a robust network of renowned Texas A&M scholars from across disciplines. Fellows will begin their appointment in Fall 2021.

ABOUT THE 2020-2021 ACES FELLOWS PROGRAM

- Texas A&M University's ACES Fellows Program is a two-year (24 month) fellowship for early career PhDs. Applicants should have earned their PhD between January 1, 2017 and July 1, 2021. Fellows begin their appointment fall 2021.

- The stipend is \$60,000 per year plus benefits. Benefits including medical, dental, and vision are available. The fellowship period generally begins August 1 and ends on July 31. Start dates are negotiable, but must commence between July 1 and August 10.
- Fellows will receive reimbursement for one-time relocation fees (up to \$5,000), a research and travel allowance of \$3,000 per year, and a private office.
- ACES Fellows will teach one course per academic year, thereby benefiting from dedicated research time. Fellows will hold the title of Visiting Assistant Professor.
- A hallmark of the Texas A&M University's ACES Fellows Program is the mentoring ACES Fellows will receive, as well as its attention to community-building among ACES Fellows.

Applications are due October 1, 2020. For a full listing of program eligibility and application materials visit:

<https://diversity.tamu.edu/Home/Accountability,-Climate,-Equity,-and-Scholarship-F>

For any questions related to eligibility or technical issues with the application, please email aces@tamu.edu. For questions pertaining the College of Geosciences, please email icasellasconnors@tamu.edu

AGU STUDENT/EARLY CAREER GRANTS/FELLOWSHIPS

If you know someone who is attending #AGU20 online experience who would appreciate some financial assistance, please recommend they apply for these fellowships/grants.

Some will cover technology needs such as Wi-Fi, laptops and other technology accessories while others will pay for lost wages, childcare and other needs.

Applications are due 25 August. All amounts are in USD.

- **Fall Meeting Virtual Student Travel Grant** for students to receive \$1,000, with \$500 for #AGU20-related expenses and \$500 for educational expenses: <https://www.agu.org/Learn-and->

[Develop/Learn/Travel-Research-Grants/Fall-Meeting-General-STG](#)

• Berkner Fellowship is for those 35 or younger from [low/low-middle income countries](#) who are attending #AGU20. Berkner winners will receive \$2,500 USD, with \$1,000 USD to cover Fall Meeting-related expenses and \$1,500 USA to cover educational expenses <https://www.agu.org/Learn-and-Develop/Learn/Travel-Research-Grants/Berkner>

• **Miller Scholarship** for undergraduate and graduate students in geo-environmental sciences or engineering for \$1,500:

<https://www.agu.org/Learn-and-Develop/Learn/Travel-Research-Grants/David-S-Miller-Young-Scientist-Scholarship>

• **Lumley Scholarship** for high school and undergraduate students who are interested in environmental science and energy. Winners will receive \$500 to participate in #AGU20, which includes purchasing/renting technology, transportation, dependent care, lost wages, etc. AND \$1,000 college scholarship:

<https://www.agu.org/Learn-and-Develop/Learn/Travel-Research-Grants/David-E-Lumley-young-scientist-scholarship>

• **Basu Innovation Scholar** for early career scientist/recent Ph.D. graduate in space physics and aeronomy to receive up to \$2,000 for #AGU20: <https://www.agu.org/Learn-and-Develop/Learn/Travel-Research-Grants/Basu-Innovation-Scholar-Grant>

ATMOSPHERE 2021 YOUNG INVESTIGATOR AWARD

We are pleased to announce that the 2021 Atmosphere Young Investigator Award (<https://www.mdpi.com/journal/atmosphere/awards>) is now open for nominations. The winner will be awarded 2000 CHF.

Eligibility Criteria

- 1) Ground-breaking contribution to the advancement of atmosphere studies;
- 2) Be planning an investigative career in atmosphere;
- 3) Age under 35 years (this is not a strict limitation; if you are 35 or over, you are welcome to contact us and we will happily review your request).

Application Materials

- 1) An up-to-date full Curriculum Vitae including publication history, scientific presentations, research achievements, and prior recognition of work (awards and funding);
- 2) A short essay highlighting your research achievements and impact in no more than 500 words;
- 3) Nomination letters from two recognized scientists in the field of atmosphere;
- 4) Ph.D. certificate.

We welcome nominations for this award **until 30 November 2020**. Application materials should be submitted via the link:

<https://www.mdpi.com/journal/atmosphere/awards/submit/931>.

The winner will be announced on 30 December 2020.

CLIMATE AND EXTREME WEATHER OPPORTUNITIES

Central Michigan University is currently seeking two Ph.D. students to pursue an opportunity at the climate/weather extreme interface at the Department of Earth and Atmospheric Sciences. These positions are supported by two grant funded four-year research assistantships as part of a project to further our understanding the processes that lead to severe convection around the globe and the links of these phenomena to a changing climate.

This project is all about the connection of scales, and working with large reanalysis and climate model datasets to explore favorable environmental conditions and our ability to resolve these environments. This position would suit students with either an interest in the impacts of climate change on extremes, or a more fundamental interest into the links between processes that lead to favorable severe storm environments and larger scales. In either direction, an interest in statistics and large datasets is a plus.

Start date for the position is flexible, with a start anywhere between Fall 2020 and 2021. Ideally, the applicants would have an M.S. in meteorology, atmospheric sciences,

environmental data science or climate science, but I would also consider exceptional bachelors level applicants.

If you would like more information or know of interested parties please feel free to send an email to me, John T. Allen (allen4jt@cmich.edu). Details about our group at CMU can be found at the following link:
http://people.cst.cmich.edu/allen4jt/allen_home_page.html



CALL THE PROTECT PURDUE HEALTH CENTER IF YOU ARE EXPERIENCING SYMPTOMS OF COVID-19

If you are exhibiting symptoms of COVID-19, all Purdue students, faculty members and staff should immediately contact the Protect Purdue Health Center 24/7 at 765-496-INFO (4636) or toll-free at 833-571-1043 and pressing option "1." A call tree option will be available after hours to connect individuals to the Protect Purdue Health Center case manager as well as the option to leave a voicemail. Individuals experiencing an emergency should always call 911. The Centers for Disease Control and Prevention provides a [list of symptoms here](#).

Office of the Dean of Students - Student Support Services Fall 2020 Updates

Here in the Office of the Dean of Students - Student Support Services we are continuing to make adjustments to our processes in order to ensure all of our services remain available to students and in a way that we are doing our part to Protect Purdue. We are here to help students succeed and feel supported. Below is a brief overview of some of the services we provide in our office and how students can access them at this time.

Office Information

- New Hours of Operation: Monday through Friday, 8:00am-12:00pm and 1:00pm-5:00pm.

- As part of our effort to Protect Purdue, we will have limited staff in our office at 207 Schleman Hall. Students are encouraged to call or email to discuss concerns or schedule an appointment for a phone call or video meeting.
- While students are encouraged to call or email to discuss concerns or schedule an appointment for a phone call or video meeting, staff will be available to meet in person should a student need to do so during hours of operation.
- Email: odos@purdue.edu
- Phone: 765-494-1747
- Website: <https://www.purdue.edu/advocacy/students/>

Absence Notifications

- Our office can provide absence notifications for Grief Absence, Military Absence, and Jury Duty.
- To request a notification for these 3 approved absences, students should submit the appropriate request form at <https://www.purdue.edu/advocacy/students/absences.html>.
- Students may also contact our office with any questions or to make a request.
- Documentation is required to verify these absences.
- For all other types of absence, the student should work with their instructor directly.
- New for fall – approved absence for students on Jury Duty – up to 10 days per semester.
- Grief Absence leave times for students have been increased: up to 5 days within a 2-week period for immediate family and up to 3 days in a 2-week period for all others.

Emergency Loans

- Registered students may borrow up to \$1000 at a time and up to \$2000 a semester. Summer is its own semester.
- 30 day interest-free loan.
- Obtaining an emergency loan is currently being done through a combination of phone and email communication. Students are encouraged to call ODOS to begin the borrowing process and will no longer be able to complete an application in our office. We will give them everything they need to do the application on their own computers.
- Criteria and additional information can be found at <https://www.purdue.edu/advocacy/students/financial/emergencyloan.html>

Withdrawal

- ODOS advises students on the process of a complete withdrawal and facilitates the process for students to withdraw from all of their current courses after the start of the semester.
- Our office will encourage students to consult with their academic advisor, financial aid, scholarship advisors, family, 3rd-party payers, housing, ISS and others prior to initiating a withdrawal.
- Withdrawal deadlines and refund information for fall 2020 can be found at https://www.purdue.edu/registrar/documents/calendars/dropAddDeadlines/schedReviseCal_Fall.pdf
- Additional withdrawal information can be found at <https://www.purdue.edu/advocacy/students/withdrawal.html>

General Student Support

- We provide individual one-on-one support to students who may be navigating personal, financial, or academic concerns.
- We connect students to campus and community resources that can provide them with support specific to their needs.
- We can maintain continued communication and support with the student based upon their individual needs.
- Information shared with our office is protected by FERPA and we strive to maintain privacy; however, we are not a confidential resource and have reporting responsibilities in certain situations.
- The student can email (odos@purdue.edu) or call (765-494-1747) our office to get connected with a Student Support Specialist. Together the student and Student Support Specialist determine the preferred method to meet whether it will be by phone or video meeting.
- We provide individual one-on-one support to students who may be navigating personal, financial, or academic concerns.

Student of Concern

- If you have concerns for a student – including students being impacted by COVID (directly or indirectly) – submitting a Student of Concern Report (www.purdue.edu/studentconcernform) will prompt outreach from a member of the Office of the Dean of Students.

Quarantine / Isolation

- If you hear of a student that has been advised by the PPHC or other medical personnel to quarantine or self-isolate, please instruct them to e-mail odos@purdue.edu as soon as possible. We will then follow up with them to offer support, send out an absence notification on their behalf and connect them to an Academic Case Manager.

TIME FOR 2020-21 FACULTY/STAFF PARKING PERMIT RENEWALS

Annual parking permits are again offered for 2020-21, and the following additional parking options are available for faculty and staff who are continuing remote or hybrid schedules:

- **Monthly “A” or “B” Parking Permit**

Faculty or staff may purchase a temporary “A” or “B” parking permit that is valid for one month but may not be used in the Grant Street or Harrison Street parking garages. Faculty and staff can choose the beginning date for the permit during the purchasing process, and it will be valid for one month from that date. The effective dates of the permit will be displayed in the online parking portal. The costs are \$30 per month for “A” permits and \$15 per month for “B” permits. These virtual permits may be purchased through the Purdue Parking Portal at <https://purdue.t2hosted.com>.

- **Daily Parking Permit**

Faculty or staff may purchase a \$5 one-day parking permit to use in any “A” permit space, except those in the Grant Street or Harrison Street parking garages. These can be purchased through the Purdue Parking Portal at <https://purdue.t2hosted.com>.

- **Hourly Parking**

For visits to campus that are less than a full day, hourly parking may be available. This is offered in the Grant Street and Harrison Street parking garages and at [metered spaces at various locations around campus](#). Costs range from \$1 per hour to \$10 per day.

Please note that parking permits may be purchased throughout the year if working

circumstances change; however, no prorated refunds for annual permits paid in full will be given after March 1, 2021; requests to cancel payroll deduction payments must be made prior to May

1. The monthly, daily and hourly options are not eligible for full or partial refunds.

Annual Parking Permit

Faculty and staff annual parking permits are now available for purchase at <https://purdue.t2hosted.com> for those who do not have outstanding citations. These permits will be valid from Aug. 1, 2020 through Aug. 15, 2021. In order to avoid delays or have a lapse in campus parking eligibility, faculty and staff should purchase a 2020-21 parking permit by Aug. 5, 2020 to allow time for delivery of the associated Garage Access Card ("A" permits only) or "Reserve" permit through campus mail. The cost of an "A" permit is \$250 per year, and a "B" permit is \$100 per year.

While each faculty/staff member may list multiple vehicles per online account, only three may be actively linked to a permit. Of the three linked vehicles, only one may be parked on campus at any given time.

Existing license plate numbers linked on your account will be listed as choices for your new permit, and you will not need to enter the associated vehicle information again. License plates continue to serve as an individual's parking permit, and a standard campus parking permit is not required to be displayed in a vehicle's windshield. However, some parking spaces require special permits to be displayed including those that are labeled reserved, university vehicle or handicap accessible.

Any vehicle that is parked on campus needs to be linked to an active Purdue parking permit to avoid receiving a citation, and each permit holder is responsible for maintaining the accuracy of vehicle information in the online account for parking enforcement. This includes but is not limited to vehicle make and model, license plate number and expiration date.

During the purchase process, please confirm that your campus department and building are listed correctly. If you purchase an "A" permit, a

Garage Access Card for use in the gated parking garages will be sent to your campus building via campus mail. Access to gated garages should be granted based on your license plate that is registered with your parking permit; however, the Garage Access Card may be needed at gated garages in the event that your license plate cannot be read or if cameras are inoperable. Garage Access Cards that were issued for 2019-20 will become invalid as of Aug. 15 and should be destroyed at that time.

Additional information about faculty and staff parking permits and alternate options is available online.

ID Permits

ID permits are available for a \$20 annual fee for employees who work second or third shift. These permits are valid from 7-8 a.m. and 3-5 p.m. Monday through Friday.

Disability Parking

If you have disability parking needs or related questions, please contact Susan Black, Parking assistant manager, at seblack2@purdue.edu or (765) 494-9493.

All other parking and permit questions should be directed to Parking and Transportation Services at (765) 494-9497 or parking@purdue.edu.

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. Individual email announcements will no longer be sent unless the content is time-sensitive. We will continue to include our publications, presentations and other recent news items as well.

Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at <http://www.eaps.purdue.edu/news/newsletters.html> and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Katherine Huseman (khuseman@purdue.edu) **by 5:00pm on Thursday of each week for inclusion in the Monday issue.**

If it is in the newsletter, we assume you know about it and no other reminders are needed. For answers to common technology questions and the latest updates from the EAPS Technology Support staff, please visit: http://www.eaps.purdue.edu/resources/information_technology/index.htm.

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at <http://www.EAPS.purdue.edu/events-calendar.html>

