EAPS WEEKLY NEWSLETTER
15 Jan. 2018 | EAPS on Facebook | EAPS on Twitter

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DEPARTMENT NEWS

INSIDE EAPS NEWSLETTER

Read all of the latest news in our department magazine, Inside EAPS, including Antarctica research, public outreach, and clean energy for hybrid vehicles. The latest version of Inside EAPS newsletter can be found here:
https://goo.gl/47U9VP

BE SURE TO CHECK OUT ALL OF THE EAPS COMMUNICATIONS MEDIA!

Facebook
Twitter
Department Magazine
Website News

EAPS SEMINAR

Mingsong Li
Pennsylvania State University
Thursday, Jan. 18
3:30 PM
HAMP 1252

EAPS MEETINGS & EVENTS

EAPS FACULTY MEETINGS

Jan. 30, 2018
Feb. 27, 2018
Mar. 27, 2018
3:00-4:30 PM
HAMP 3201

CoS FACULTY MEETINGS

Feb. 13, 2018
3:30-4:30 PM
LWSN 1142

April 17, 2018
3:30-4:30 PM
TBD

EAPS PRIMARY COMMITTEE MEETING

Apr. 3, 2018
3:00-5:00 PM
HAMP 3201

EAPS AWARDS BANQUET

Apr. 23, 2018
5:30 - 9:00 PM
Buchanan Club, Ross-Ade Pavilion

EAPS ALUMNI ADVISORY BOARD MEETING

Apr. 24, 2018
8:30 AM - 4:30 PM
HAMP 2201

http://www.eaps.purdue.edu/
AMS ANNUAL MEETINGS IN AUSTIN, TX

(Pictured below is Lindsey Taylor at the Student Conference Poster Session)

GRADUATE STUDENT EXPO DATES:
February 9, 2018
February 10, 2018

2018 AIR FORCE RESEARCH LAB REPPERGER RESEARCH INTERNSHIP PROGRAM

The U.S. Air Force Research Laboratory’s (AFRL) is currently accepting applications for its 2018 AFRL Repperger Research Internship Program until January 21, 2018.

This civilian research opportunity is a 10-week summer program intended for MS/PhD candidates pursuing degrees in STEM. Each year the laboratory will appoint a couple exceptional undergraduate students into the program.

There are 36 posted opportunities, once the application January 21, 2018 deadline passes, each application will be reviewed and AFRL will fund 15 participants for the summer period. Check out the opportunity catalog to review all of the available opportunities, there are available research opportunities in nearly every STEM field! Please apply to no more than (3) Repperger opportunities and only apply to opportunities in your applicable educational background.

2018 AFRL Repperger Research Internship Program Catalog:

To qualify, applicants must be pursuing their Master or PhD (some outstanding bachelor students will be considered as well), have a minimal 3.2 GPA in a STEM discipline and be a U.S. citizen. Selected participants will receive a $12,000 stipend for their participation in the internship which runs from June 4-August 10, 2018. All complete applications must be submitted by January 21, 2018. To apply, visit https://www.orau.org/maryland/repperger.html. For more information, visit: www.orau.org/maryland, or email Recruiter@orau.org.

Please remember we have a lot more opportunities available with the Department of Defense! Please explore the U.S. Army Research Lab Summer Journeyman Fellowship (BS-PhD candidates) and additional summer and postgraduate opportunities (Bachelor-Postdoctoral opportunities) are posted to the ORAU Maryland website, currently over 200 open research opportunities: www.orau.org/maryland.

Army Research Lab – Summer Journeyman Fellowship
http://www.orau.org/arl_fellowship/applicants/how-to-apply-summer-journeyman.htm

GLOBAL SCIENCE PARTNERSHIPS LEARNING COMMUNITY

Attention: all first year college of science students!

See the attached flier for information about free dinners, trips, and activities that are designed to help you learn about other cultures...while having fun!

POC: Terry Ham: hamt@purdue.edu or globalsciencepartners@purdue.edu
Please check out the attached January Boiler Wellness E-Newsletter. In it, you will find information about upcoming Mindfulness, Resilience and Crave Series, the Lunch and Learns, and the Crockpot Meals.

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**2018 SUMMER RESEARCH EXPERIENCES FOR UNDERGRADUATES PROGRAM**

The 2018 Summer Research Experiences for Undergraduates (REU) Program in climate change in semi-arid regions hosted by the Environmental Science Institute at the University of Texas at Austin. The program is currently in its 15th year, with 130 alumni, many of whom have presented the results of their REU research at national conferences and/or published in peer reviewed journals.

The program is aimed at rising juniors and seniors and open to students who are US citizens in good academic standing. We especially invite applications from members of traditionally underrepresented groups.

Please feel free to download the program flyer and share widely with students who may be interested in this program. Program information, including the online application, can be found on our website.

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**SULI PROGRAM FOR UNDERGRAD STUDENTS**

The Science Undergraduate Laboratory Internship (SULI) program encourages undergraduate students to pursue science, technology, engineering, and mathematics (STEM) careers by providing research experiences at the Department of Energy (DOE) laboratories. Selected students participate as interns appointed at one of 17 participating DOE laboratories/facilities. They perform research, under the guidance of laboratory staff scientists or engineers, on projects supporting the DOE mission.

The SULI program is sponsored and managed by the DOE Office of Science’s, Office of Workforce Development for Teachers and Scientists (WDTS) in collaboration with the DOE laboratories/facilities.

Applications for the SULI program are solicited annually for three separate internship terms. Internship appointments are 10 weeks in duration for the Summer Term (May through August) or 16 weeks in duration for the fall (August through December) and spring (January through May) Terms. Each DOE laboratory/facility offers different research opportunities; not all DOE laboratories/facilities offer internships during the fall and spring Terms.

The link below goes to a summer undergraduate internship opportunity with the US Department of Energy, sent to me by our recent colloquium speaker, Dr. Scott Collis (who is one of the available mentors at nearby Argonne National Laboratory). The application deadline is **12 January, 2018**.

Please disseminate to any EAPS undergrads you think might be interested. DOE does work involving virtually all sub-disciplines within EAPS (atmospheric science, geology, environmental science, hydrology, etc.). Please direct any questions about the internship directly to SULI, or see their [FAQ](https://science.energy.gov/wdts/suli/).

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**EXPLORATION SCIENCE SUMMER INTERN PROGRAM**

**APPLICATION DEADLINE: January 19, 2018**

Applications are now being accepted for the exploration science summer intern program. The Lunar and Planetary Institute (LPI) is hosting a special summer intern program to involve students in activities that support missions to the Moon that utilize the Orion crew vehicle, the Deep Space Gateway, and robotic assets on the lunar surface. It is a unique opportunity to integrate scientific input with exploration activities in a way that mission architects and spacecraft engineers can use. Activities may involve assessments of landing sites and traverse plans for multiple destinations that are responsive to NASA objectives. The LPI invites applications from graduate students in geology, planetary science, and related programs.

The Exploration Science Summer Intern Program builds on the success of the Lunar Exploration Summer Intern Program that was designed to evaluate possible landing sites on the Moon for robotic and human exploration missions. Over a five
year period (2008–2012), teams of students worked with LPI science staff and their collaborators to produce A Global Lunar Landing Site Study to Provide the Scientific Context for Exploration of the Moon. The program for 2018 is designed to have the same impact on future exploration activities. This will be a unique team activity that should foster extensive discussions among students and senior science team members.

The 10-week program runs from May 29, 2018, through August 3, 2018. Selected interns will receive a $5,883 stipend, and up to a $1,000 travel expense reimbursement for U.S. citizens, or $1,500 for foreign nationals.

Applications are only accepted using the online application form found at the LPI's Exploration Science Summer Intern website: https://www.lpi.usra.edu/exploration_intern/

For more information, contact:
Brittany McNeal
Exploration Science Summer Intern Program
ExplorationIntern@lpi.usra.edu

SUMMER 2018 @ NASA AIRBORNE STUDENT AIRBORNE RESEARCH PROGRAM

Application deadline is: Jan. 31, 2018

Applications are open for the summer 2018 @NASAAirborne Student Airborne Research Program (SARP)! It’s a great opportunity for undergrads to experience research on the DC-8!

https://t.co/dzXHR4yh7d
https://t.co/8t3lEsatu
https://airbornescience.nasa.gov/nsrc/content/National_Suborbital_Research_Center_SARP_2017

WOMEN IN SCIENCE FELLOWSHIP PROGRAM

L’Oréal USA for Women in Science The L’Oréal USA For Women in Science fellowship program honors female scientists at a critical stage in their careers with grants of $60,000 each. Candidates are selected from a variety of fields including the life and physical/material sciences, technology (including computer science), engineering, and mathematics. Candidates must have completed their PhD and have started in their postdoctoral position by the application deadline.

Deadline: February 2

PURDUE TO ADD TWO-FACTOR AUTHENTICATION FOR ALL FACULTY AND STAFF DURING SPRING SEMESTER

Coming soon, all of Purdue’s faculty and staff will need to begin using two-factor authentication, known at Purdue as BoilerKey, to log into the new employee portal, SuccessFactors, improving security of personal and University data alike. Signup for BoilerKey is now ready for all Purdue employees at www.purdue.edu/boilerkey. Purdue faculty and staff can expect reminders to sign up in the form of direct emails, social media posts and Purdue Today articles to give instructions on how and where to sign up throughout the coming spring semester. The employee portal allows employees to create leave requests and check paystubs. It also handles many of the University’s business functions.

What is two-factor authentication?

BoilerKey adds a second login requirement to go with your password. At Purdue, it’s a numerical code randomly generated on a smartphone app called Duo or a key fob. Essentially, even if someone were to get a hold of your password (if you fall for a phishing email, for instance), your account would still be protected because only you can physically access your smartphone or key fob to get the necessary login code.

BIRTHDAYS

John Cushman Jan. 19

http://www.eaps.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 Fallon McQuem (fmcquem@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
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<th>Date</th>
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<th>Institution</th>
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<td>Jan. 11</td>
<td>Hiroki Sone</td>
<td>University of Wisconsin, Madison</td>
<td>Mitchell</td>
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<td>Jan. 18</td>
<td>Mingsong Li</td>
<td>Pennsylvania State University</td>
<td>Zhang/Ogg</td>
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<td>Jan. 25</td>
<td>Deanne Rogers</td>
<td>Stony Brook University</td>
<td>Scudder</td>
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<td>February 1</td>
<td>Geochronology Candidate</td>
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<td>Geochronology Candidate</td>
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<td>March 1</td>
<td>Linda Kah</td>
<td>University of Tennessee, Knoxville</td>
<td>Horgan</td>
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<td>March 8</td>
<td>Morgan O’Neill</td>
<td>University of Chicago</td>
<td>Acosta/Chavas</td>
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<td>March 22</td>
<td>Aneesh Subramanian</td>
<td>Univ. California-San Diego</td>
<td>Tung</td>
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<td>Julie Brisset</td>
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<td>Minton</td>
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<td>April 5</td>
<td>Richard Neale</td>
<td>NCAR</td>
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<td>April 12</td>
<td>Sagnik Dey</td>
<td>Centre for Atmospheric Sciences, IIT</td>
<td>Harshvardhan</td>
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<td>April 19</td>
<td>Jonathan AJO-Franklin</td>
<td>Lawrence Berkeley National Lab</td>
<td>Mitchell</td>
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<td>April 26</td>
<td>Erich Peitzsch</td>
<td>USGS Northern Rocky Mountain Science Center</td>
<td>Miller</td>
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A Brief Geological History of China

Mingsong Li
Pennsylvania State University

Geological processes of China have been influenced by the assembly and breakup of supercontinents. The Proterozoic marine sediments in China provide unique records for the Snowball Earth, evolution of early life, and other global events. Excellent Paleozoic through Triassic sedimentary records in South China include ten international Global Boundary Stratotype Section and Point (GSSP) sections, including the catastrophic events at the Permian-Triassic boundary. The Mesozoic terrestrial sediments preserved unique records of dinosaurs, early birds, and the earliest flowers. The uplift of the Tibet Plateau and the opening of the South China Sea during the Cenozoic are two hot spots in the present-day geological research.

Thursday, January 18, 2018
3:30 p.m.
Room 1252 HAMP

Refreshments at 3:00 pm
Room 2201/ HAMP
CIMMS Research Scientist – Cloud Physics

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks to fill a Research Scientist position for projects funded by the National Science Foundation (NSF), the National Aeronautics and Space Administration (NASA), the Department of Energy (DOE) and the National Oceanic and Atmospheric Administration (NOAA). The Research Scientist will participate in experimental field projects seeking to obtain a better quantitative knowledge of the microphysical properties of clouds, to better understand cloud processes and to represent them in weather and climate models.

Background:
The Director of CIMMS has a number of ongoing and planned field projects making air- and shipborne in-situ and remote sensing measurements of cloud properties, including projects investigating Southern Ocean clouds, Arctic clouds, mesoscale convective systems, winter storms, tropical cyclones, and others. Investigations using these data to determine how cloud properties vary with environmental and aerosol conditions are expected to continue for several years. Further, the uncertainties in derived cloud properties will be used to develop a new-generation of stochastic parameterizations for incorporation into models.

Responsibilities:
The incumbent will participate in the collection of data during field campaigns, process data collected by cloud probes using the University of Oklahoma software, help organize future field campaigns, assist in proposal preparation, conduct scientific analysis with the collected data, write papers for the refereed literature, and present the results of findings at national and international meetings. It is also expected that the incumbent will interface with investigators at several other universities and institutes, making derived cloud products available to other investigators as well as receiving data from probes operated by others for use in scientific investigations. Development of parameterizations and execution of model simulations may also be required.

Qualifications:
1. A Ph.D. degree in atmospheric science or related area.
2. Background in cloud physics, and especially in observations, is desired.
3. Strong software design and programming (e.g., Matlab) skills, and scripting (Python) familiarity.
4. Excellent oral and written communication skills (including papers published in, or submitted to refereed journals).
5. An ability to work both independently and cooperatively with others.

The beginning salary will be based on qualifications and experience, with benefits provided through the University of Oklahoma (https://hr.ou.edu/Employees/New-Employees-at-OU/OU-Benefits-Overview). The position is available as early as April 1 and is a full-time appointment. Although the position is supported by grants awarded to CIMMS, it is expected that a long-term appointment is possible. The appointee will serve a customary probationary period during the first year.

To apply, please forward your resume, cover letter and contact information for three references to:

Tracy Reinke, Executive Director, Finance and Operations
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
treinke@ou.edu
ATTN: Cloud Physics January 2018
The mission of Wellness Programs is to promote holistic wellness and positive health behaviors.

Beginning the New Year, we are reminded about our adaptability for the twists and turns that come up throughout the semester. It's kind of like adapting to this unpredictable weather - high 50s one day and sub-zero a few days later! Somehow, we all find a way to make it work... If you have students who may have more challenges with adapting to these twists and turns, please encourage them to sign up for our new Resilience Series, Stronger through Struggle. You can read more about it below.

Thank you for sharing with students that our food pantry was open throughout winter break. A few hundred items were taken off the table over break, demonstrating that this service is needed all year long. Our food pantry is now open every Friday through Monday morning at the CoRec. We appreciate this partnership with our campus colleague, Vanessa Pacheco, who is helping to make this happen.

Take a few moments to read about our Mindfulness Series, the NEW Resilience Series, and the CRAVE Series for students. Those are great programs to recommend to students that you work with. The Crock Pot Demos have huge staff participations, and our Campus Improvement Team has put together a fantastic lineup for our spring Lunch and Learn Series. All info that we think you just NEED to know this month.

We also want you to know that our peer mentors are changing their names to Wellness Mentors to better reflect the work that they do on campus and with students. They are still available for one-on-one consultations but also present in classrooms and do a tremendous amount of outreach for us.

Finally, please remember during this gloomy time of year that our light therapy room is free to faculty, staff and students. Just call Carmen at 765.496.1788 to schedule a time.

The Mindfulness Series is back! Offered from February 6-15th, this four-part series helps students learn how to reduce stress, increase emotional regulation and well-being. Free yoga mats, cooking demos and yoga session included!

The NEW Stronger through Struggle Resilience Series can help students develop the important professional skill of resilience. This four-part series from February 20th to March 1st will help students learn how to bounce back from struggles, determine what hinders success, and balance their lives.

Students can register for the FREE Mindfulness Series and Stronger through Struggle Series at CoRec Member Services or by calling 765.494.3109. Space is limited.
Please encourage your students to attend one of our upcoming FREE Crave Series events. For more details on descriptions, times, locations and which events require pre-registration, visit: https://tinyurl.com/y72g3kvw.

- **Tuesday, January 23rd (6-7pm):**
  How Connection Makes You Healthy

- **Tuesday, January 23rd (7-8pm):**
  Nutrition for Workout Recovery

- **Wednesday, January 24th (7-7:45pm):**
  Yoga for Beginners

- **Sunday, February 4th (2-4pm):**
  Fundamentals of Olympic Weightlifting

- **Tuesday February 20th (7-8pm):**
  Eat Right When Your Budget is Tight

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**LUNCH & LEARNS**

Sponsored by the Campus Improvement Team

All Lunch and Learns are from 11:30 – 12:20 at the CoRec. Pre-registration is required as space is limited. Contact Brooke Furrer for registration information at furrerb@purdue.edu.

**January 31** - Opioid Panel with University and Community Leaders (with Chief John Cox, Fire Chief Kevin Ply, Tippecanoe County Drug Task Force member Tim Payne, and ER physician Dr. Sansone)

**February 21** - Continuing the Conversation: Parties, Pills & Pot: Rite of Passage or Russian Roulette? (with Dr. Amy LaHood)

**March 8** – Developing Programs for Students in Recovery (with Eric Teske, IUPUI)

**April 5** – National Substance Abuse Trends in Fraternity/Sorority Life (with Kyle Pendleton, Senior Director of Harm Reduction and Education, Zeta Tau Alpha, and Brooke Kingsley Isbell, Director of Prevention Education, Pi Kappa Phi)

**April 19** – Alcohol and Prescription Drug Abuse on Campus – Insights from Students (student panel)

"Wherever you go, no matter the weather, always bring your own sunshine."

Anthony J. D’Angelo

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**CROCKPOT COMPLETE MEALS FOR 4**

If you haven't come to our newest program in the Demo Kitchen, you need to check out Crockpot Complete Meals for Four! Who wants to be cooped up in a hot kitchen after a long and busy week? Let our Cooking Instructors solve the problem of “what’s for dinner” by helping you with your Friday night dinner plans. We take care of the menu planning and shopping, you help with prep and leave with a yummy meal for four! All for just $20 - that's only $5 per serving! Recipes are made in a crockpot, so remember to bring yours from home. No crockpot? No worries! Bring along a container to take your meal with you and cook at home when ready!

- **Jan 19th**: Beef Tenderloin & Winter Vegetables
- **Feb 2nd**: Honey Garlic Chicken & Vegetables
- **Feb 16th**: Pineapple Pulled Pork Tacos
- **March 2nd**: Thai Peanut Chicken Lettuce Wraps
- **March 23rd**: Meaty Lasagna
- **April 6th**: Creamy Lemon Chicken & Spaghetti
- **April 20th**: Easy Beef Fajitas

Fridays from 12:15-12:45pm. Contact Michelle Singleton for more information at msingleton@purdue.edu.