EAPS WEEKLY NEWSLETTER
30 April 2018 | EAPS on Facebook | EAPS on Twitter

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DEPARTMENT NEWS

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

Facebook
Twitter
Department Magazine
Website News

EAPS FACULY MEETINGS
May 8, 2018
12:00 PM – 1:00 PM
HAMP 3201

EAPS WELCOME BACK PICNIC
Aug. 17, 2018
4:00 PM – 7:00 PM
Cumberland Park, North Shelter

EAPS COLLOQUIA

Jeffrey Freymueller
Department Head Faculty Candidate
University of Alaska, Fairbanks

Monday, April 30, 2018
3:30 PM
HAMP 1252

PURDUE DAY OF GIVING GIFT ESTABLISHES NEW ENDOWMENT FOR EAPS

The Department of Earth, Atmospheric, and Planetary Sciences is excited to announce that a

http://www.eaps.purdue.edu/
A new award has been established in honor of EAPS faculty member Dr. Jay Melosh.

Lee Harwell Jr., Elise Klein, and their daughter, Megan Harwell, a current Physics and Planetary Sciences student, have established The H. Jay Melosh Planetary Science Engagement Fund. The endowment will aid both undergraduate and graduate students with their expenses in attending academic conferences.

Dr. Melosh came to Purdue University as a University Distinguished Professor in 2009 from the University of Arizona. His research focuses on the ramifications of impact cratering, planetary tectonics, and the physics of earthquakes and landslides. He was elected to the National Academy of Sciences in 2003.

“I am both honored and humbled to have this donation named after me,” Dr. Melosh said. “Undergraduate students are the lifeblood of our department and it is essential that, in a first-class research department, our students have the opportunity to engage with other researchers both in our nation and abroad. This generous gift will ensure that our talented undergraduates will be able to make their work known to the broader world outside Purdue.”

The Department cannot thank Elise, Lee, and Megan enough for their generosity and their vision in establishing this endowment. This engagement fund will open doors to a number of opportunities to both EAPS undergraduate and graduate students. The experience they will gain at an academic conference will prepare them for greater success as they go on to pursue their careers in science.

COME CELEBRATE DR. ZINSMEISTER’S CAREER AND RETIREMENT

The EAPS department will be celebrating the accomplishments of Dr. William Zinsmeister! The event details are as follows. Lunch and refreshments will be served.

OFFICE OF INTERDISCIPLINARY GRADUATE PROGRAMS 2018 SPRING RECEPTION

Join us to see more than 120 research posters from graduate students across multiple disciplines! This event is open to campus. The event details are as follows:

Wednesday, May 2, 2018
North & South ballrooms, Purdue Memorial Union
10:00 – 11:30 AM: Poster Session, Light Refreshments
11:30 AM – 12:00 PM: Award Presentation, Keynote

For more information, see the attached flyer.

12TH ANNUAL GRADUATE CLIMATE CONFERENCE

The 12th Graduate Climate Conference (GCC) will be held November 2-4, 2018, at the University of Washington Pack Forest Conference Center.

The GCC is an interdisciplinary climate conference run by graduate students, for graduate students.

Abstract submissions are now open. For more information about the conference, visit the website or see the attached flyer.

FORREST RESEARCH FOUNDATION FELLOWSHIPS

The Forrest Research Foundation awards prestigious fellowships to postdoctoral researchers undertaking their world class research at any one of the Western Australian universities.

Offered to outstanding postdoctoral researchers from all disciplines, Forrest Fellows are selected based on their:

http://www.eaps.purdue.edu/
• Exceptional academic achievements
• Developed collaborations with outstanding researchers in their field
• Potential to make a positive difference in the world through their research

Value

• Forrest Fellowships are valued at over $115,000 per annum for 3 years
• Fellows are accommodated at Forrest Hall premium one and two bed apartments located on the Swan River and designed to suit the needs of academics intent on achieving excellence in their field.

The application deadline is May 18, 2018. For more information, see the attached flyer, or go to www.forrestresearch.org.au.

2018 COLLEGE OF SCIENCE GRADUATE STUDENT INTERNATIONAL TRAVEL AWARDS

The deadlines for the 2018 College of Science Graduate Student International Travel Awards have been announced. For travel between July 1, 2018 and December 31, 2018 the deadline is 4:00 P.M. on June 1, 2018. Students must be full-time PhD students in the College of Science, and must be making an oral or poster presentation at an international conference. Priority will be given to travel to make an oral presentation at a conference, attendance at an interdisciplinary conference, and/or students who have passed their prelims.

To apply, send the following electronically as one file to Robin Sipes (rsipes@purdue.edu):

• CV (2 page limit)
• Brief statement of purpose for attending conference specifying whether your presentation is oral or poster

• Web link to conference
• Letter of support from research advisor

For more information, see the attached flyer.

CIMMS RESEARCH SCIENTIST – WARN ON FORECAST NUMERICAL MODELER

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma seeks to fill a Research Scientist position for its collaborative research as a Cooperative Institute with the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL). The Research Scientist will participate in NSSL’s Warn on Forecast research program.

Desired Qualifications:

□ PhD in the physical sciences (Physics/Math/Remote Sensing/Meteorology or related area) with professional experience as a scientific researcher and programmer.

□ Experience with running numerical weather prediction models and familiarity with ensemble data assimilation methods (WRF/DART and/or GSI-EnKF experience is a plus).

□ Proficiency with common programming and scripting languages (emphasis on FORTRAN, CSH, Python languages) in UNIX environments.

□ Ability to work and communicate in a team environment effectively.

□ Ability to write proposals to obtain funding support for research activities.

To apply for the position, please forward your resume, cover letter and list of 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
tr reinke@ou.edu
ATTN: WoF Data Assimilation

For more information, see the attached flyer.

http://www.eaps.purdue.edu/
CIMMS RESEARCH ASSOCIATE – AWIPS2

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma currently is seeking a research associate to collaborate with scientists in the National Severe Storms Laboratory’s (NSSL) Warning Research & Development Division on the implementation of severe weather applications to support research to operations initiative via transition into the National Weather Service’s Advanced Weather Interactive Processing System- 2nd generation (AWIPS2) operational software platform.

The duties of this position are:

1. Integration of experimental datasets (ex. Phased Array Radar, Warn-on-Forecast products, multi-sensor products, NUCAPS, satellite, etc.) into AWIPS2;
2. Support and participate in applied research experiments in the Hazardous Weather Testbed;
3. Development of new applications and visualization techniques in the AWIPS2 development environment.

The minimum qualifications for the position are:

1. A Masters Degree in Meteorology, Atmospheric Science, Computer Science/Software Engineering, Geographic Information Systems, or related area;
2. Computer programming experience (Linux, Java, Python, PostgreSQL, Eclipse, etc.);

Applicants should identify expertise with any of the following areas: AWIPS2; Computer Programming; Visualization; Geographic Information Systems. Some knowledge of National Weather Service warning and forecast operations and weather radar would be beneficial. Good oral and written communication skills are needed for the position. Please indicate additional experience with operating systems and programming skills (including web-based and mobile applications) beyond the requirements stated above. Normal working hours will be observed except for occasional irregular hours during data collection, warning/forecast experiments, or workshops conducted at remote sites. General supervision will be provided by the CIMMS leadership. Technical oversight will be provided by CIMMS staff, NSSL scientists, and NSSL management. Appointee will work under general supervision but is expected to determine action to be taken in handling all but unusual situations. Incumbent in this position is not expected to supervise other employees, but may serve as a leader of technical teams. The beginning salary will be based on qualifications and experience with University benefits. Information on benefits may be found at http://www.hr.ou.edu/employment/WorkingatOU.asp. The position is expected to begin May 2018.

To apply for the position, please forward your resume, cover letter and list of 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
Job Requisition – AWIPS

The University of Oklahoma is an equal opportunity/Affirmative Action employer.

EMAIL BUDDIES WANTED

New students always have many questions and we feel that you can be a valuable partner in helping them navigate their first steps at Purdue and the College of Science. We are asking you to participate in an email exchange with a first semester student.

If you participate in this program, you will be required to exchange 3-4 emails within the first few weeks before and after the start of the semester. Entering students will be informed that this is an email only relationship.

If you would like to be part of this program, please fill out the short survey. For more information, see the attached flyer, or email Terry Ham at hamt@purdue.edu.
CERTIFICATE IN ENVIRONMENTAL AND SUSTAINABILITY STUDIES

The Certificate in Environmental and Sustainability Studies is a new, interdisciplinary undergraduate certificate administered by the Center for the Environment. The Certificate gives students working in multiple disciplines a broad exposure to how environmental and sustainability challenges and solutions are conceived, represented, and researched in the Humanities, Social Sciences, Agriculture, and STEM disciplines. The certificate introduces students to a wide range of environmental issues from diverse perspectives so that they can more effectively comprehend and evaluate today’s environmental and sustainability challenges.

To learn more, visit the program’s website.

COLLEGE OF SCIENCE
GLOBAL SCIENCE PARTNERS

Are you interested in making friends from around the world? Are you interested in increasing your marketability by improving your intercultural competence? Do you enjoy learning about other cultures AND sharing things about your own culture? Would you be willing to mentor a new College of Science student (freshman, transfer or exchange)?

Global Partners are Purdue College of Science student leaders who work to create a comfortable and safe environment in which entering students can individually and collectively “find their feet” in the Purdue community. These partners provide new students with the tools and knowledge they need to start their college career, and aid them throughout their transitions as first-year students at Purdue University. The Global Partners program is also dedicated to enhancing cross-cultural understanding and to helping all students involved expand their knowledge of cultures other than their own.

To find out more about joining for the 2018/19 school year, visit the Global Science Partners Website.

ASSISTANT PROFESSOR - GEOSPATIAL / REMOTE SENSING ENGINEERING

The State University of New York College of Environmental Science and Forestry (SUNY ESF) in Syracuse, NY, invites applications for an academic-year, tenure-track position at the rank of Assistant Professor in the Department of Environmental Resources Engineering (ERE). The Department seeks applicants to meet teaching and research needs in the area of geospatial engineering with a focus on remote sensing. The position is open to applicants with interdisciplinary backgrounds (e.g. energy, environmental engineering, geography) who possess strong training and expertise in remote sensing and geospatial analysis (e.g. data acquisition and assimilation, data quality, sensor calibration, classification/regression algorithmic development). Candidates with expertise in terrestrial, atmospheric, oceanic or polar remote sensing are encouraged to apply. Applicants must possess advanced skills, knowledge and background to teach courses in both the ERE graduate and the ABET-accredited undergraduate programs. This position will require the ability to work in a collegial manner with a diverse faculty, staff and student body. We are particularly interested in candidates with a commitment to diversity and inclusiveness. For a detailed position description and to apply please visit the website.

UNIVERSITY NEWS

ENTERPRISE AND THE ENVIRONMENT
SUMMER SCHOOL
July 1-13, 2018

The Smith School of Enterprise and the Environment at the University of Oxford. We would like to invite students at the Purdue department for earth, atmospheric and planetary sciences to apply for our Enterprise and the Environment Summer School, which will take place from 1st-13th July 2018 in Oxford. It is a summer school intended for undergraduates, as well as recent graduates passionate about leading environmental change in business, society and government. See attached for more information.
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

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 ahold 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.

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 Logan Judy (ljudy@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
GPS (or more generally GNSS) satellite navigation systems allow us to make an amazing variety of measurements to study the solid earth, ocean, surface processes, neutral atmosphere and ionosphere. I will review this “multi-tool” capability, with special emphasis on my own specialization of solid earth geophysics. I use GPS to study the kinematics and dynamics of the lithosphere, asthenosphere, and fault zones. I will present a summary of one application, to variations in slip behavior in the seismogenic zone in Alaska.

Monday, April 30, 2018
3:30 pm
Room 1252, HAMP Bldg.

Refreshments at 3:00pm
Room 2201/HAMP
COME CELEBRATE DR. ZINSMEISTER’S CAREER AND RETIREMENT!

FRIDAY, MAY 4
HAMP 2201
12:00 – 1:00 PM

Join us for lunch and refreshments!

Purdue University
Earth, Atmospheric, and Planetary Sciences
College of Science
Forrest Fellows are outstanding researchers of exceptional ability and resourcefulness.
Offered to outstanding postdoctoral researchers from all disciplines, Forrest Fellows are selected based on their:

- Exceptional academic achievements
- Developed collaborations with outstanding researchers in their field
- Potential to make a positive difference in the world through their research

**Value**

- Forrest Fellowships are valued at over $115,000 per annum for 3 years
- Fellows are accommodated at Forrest Hall – premium one and two bed apartments located on the Swan River and designed to suit the needs of academics intent on achieving excellence in their field

**Partner Universities**

- Curtin University
- Edith Cowan University
- Murdoch University
- The University of Notre Dame
- The University of Western Australia

The Forrest Research Foundation is made possible by the Minderoo Foundation in collaboration with the five Western Australian universities.

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**Apply**

2018 Forrest Fellowship applications open 20 March until 18 May 2018.

**Contact**

E: admin@forrestresearch.org.au
T: +61 8 6488 5598
www.forrestresearch.org.au
ABSTRACT SUBMISSIONS NOW OPEN FOR THE
12TH ANNUAL GRADUATE CLIMATE CONFERENCE

SUBMISSION DEADLINE: JUNE 1, 2018

We are pleased to announce the 12th Graduate Climate Conference (GCC), which will be held November 2-4, 2018 at the University of Washington Pack Forest Conference Center.

The GCC is an interdisciplinary climate conference run by graduate students, for graduate students. The organizers of GCC strive to feature a diverse representation of students and research topics to create a broader, more inclusive community for emerging leaders in climate-related fields.

We encourage students from all backgrounds and stages of their graduate careers to apply. GCC highlights research from a variety of disciplines from the physical, natural, and social sciences and humanities, including, but not limited to:

- anthropology
- atmospheric sciences
- biology
- communication
- environmental sciences
- economics
- engineering
- ethics
- geography
- geology
- law
- oceanography
- public policy
- resource management

We highly encourage abstracts from students with traditionally underrepresented backgrounds.

Lodging and meals are covered for all participants. Limited travel funding also available.

For more information and access to the application, visit our website www.graduateclimateconference.com

THE 12TH ANNUAL GCC IS ORGANIZED BY GRADUATE STUDENTS AT THE UNIVERSITY OF WASHINGTON IN COORDINATION WITH GRADUATE STUDENTS AT MIT
The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma seeks to fill a Research Scientist position for its collaborative research as a Cooperative Institute with the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL). The Research Scientist will participate in NSSL’s Warn on Forecast research program.

Background:
CIMMS in collaboration with NSSL is funded to develop and demonstrate the value from a probabilistic ensemble-based convection-resolving model forecast system to help increase lead times for hazardous weather events. Increasing severe thunderstorm, flash flood, and tornado warning lead times is a key NOAA strategic mission goal designed to reduce the loss of life, injury, and economic costs of high impact weather. A successful candidate for this position will conduct a collaborative research program to improve NSSL’s storm-scale NWP efforts by researching improvements and/or alternative approaches to our current convective-scale ensemble and hybrid prediction systems. Candidates will be expected to develop new research efforts in one or more of the following areas: improvement of ensemble performance via algorithm development and/or the use of stochastic approaches, optimizing the use of high-resolution radar and satellite observations for convective scale data assimilation, or the use of machine learning for data assimilation or for post-processing of ensemble output. While a candidate will need to be self-directed, they will work closely with other members of NSSL’s Warn on Forecast team. The candidate will also have opportunities to participate in NOAA’s Hazardous Weather Testbed experiments each year, as well as collaborate with scientists from our partners at the National Weather Center as well as other NOAA laboratories working on high-impact convective weather. The candidate will be expected to present his/her work at national conferences and publish in peer-reviewed journals regularly.

Desired Qualifications:
- PhD in the physical sciences (Physics/Math/Remote Sensing/Meteorology or related area) with professional experience as a scientific researcher and programmer.
- Experience with running numerical weather prediction models and familiarity with ensemble data assimilation methods (WRF/DART and/or GSI-EnKF experience is a plus).
- Proficiency with common programming and scripting languages (emphasis on FORTRAN, CSH, Python languages) in UNIX environments.
- Ability to work and communicate in a team environment effectively.
- Ability to write proposals to obtain funding support for research activities.

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 start date for the position is negotiable.

To apply for the position, please forward your resume, cover letter and list of 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: WoF Data Assimilation

The University of Oklahoma is an equal opportunity/Affirmative Action employer.
2018 College of Science
Graduate Student
International Travel Awards

 Deadline: 4:00 PM June 1, 2018

For travel between July 1, 2018 and December 31, 2018
~ 2 or 3 awards ranging up to $800 for international travel will be awarded~

Prerequisites:
• must be a full-time PhD student within the Department in the College of Science

• must be making an oral or poster presentation at an international conference

Priority will be given to:
• travel to make an oral presentation at a conference
• attendance at an interdisciplinary conference
• students who have passed their prelims

To apply, please send electronically as one file:
• CV (2 page limit)
• brief summary of research (1 page limit)
• brief statement of purpose for attending conference specifying whether your presentation is oral or poster
• provide web link to conference
• letter of support from research advisor

Send applications to Robin Sipes at rsipes@purdue.edu
Office of Interdisciplinary Graduate Programs Presents

2018 Spring Reception

Wednesday, May 2, 2018
North & South Ballrooms, Purdue Memorial Union
10:00 – 11:30 AM Poster Session & Light Refreshments
11:30 AM - 12:00 PM Award Presentation & Keynote

Join us to see over 120 research posters from graduate students across disciplines!
This event is open to campus.

Find more information at purdue.edu/gradschool/oigp
Questions? Contact us at 494-0379 or oigp@purdue.edu
EMAIL BUDDIES WANTED!

New students always have many questions and we feel that you can be a valuable partner in helping them navigate their first steps at Purdue and the College of Science. We are asking you to participate in an email exchange with a first semester student.

If you participate in this program, you will be required to exchange 3-4 emails within the first few weeks before and after the start of the semester. Entering students will be informed that this is an email only relationship.

Your role will be to respond to questions about the major, the College of Science, and Purdue in general. You will not be expected to answer any questions about academic requirements and if you find your freshman partner has any, please refer him/her to their advisor.

If you would like to be a part of this program, please fill out the short survey on the following link:

https://purdue.qualtrics.com/ControlPanel/?ClientAction=EditSurvey&Section=SV_3eWUpdIOdeyOyQ1&SubSection=&SubSubSection=&PageActionOptions=&TransactionID=2&Repeatable=0

It’ll look great on your resume!

Please feel free to contact me if you’d like me to send you the sign up link electronically or if you have any questions hamt@purdue.edu

Thank You,

Terry
Are you interested in making friends from around the world?
Are you interested in increasing your marketability by improving your intercultural competence?
Do you enjoy learning about other cultures AND sharing things about your own culture?
Would you be willing to mentor a new College of Science student (freshman, transfer or exchange)?

Global Partners are Purdue College of Science student leaders who work to create a comfortable and safe environment in which entering students can individually and collectively “find their feet” in the Purdue community. These partners provide new students with the tools and knowledge they need to start their college career, and aid them throughout their transitions as first-year students at Purdue University.

The Global Partners program is also dedicated to enhancing cross-cultural understanding and to helping all students involved expand their knowledge of cultures other than their own.

Join us for the 2018/19 school year for monthly dinners, trips and activities (free for you!) that are designed to help you learn about other cultures.......while having fun!

To find out more about the Global Science Partners, follow this link: [http://www.science.purdue.edu/gsp/](http://www.science.purdue.edu/gsp/)

To sign up for Global Science Partners, please follow this link: [https://purdue.ca1.qualtrics.com/jfe/form/SV_8Bo4arvA9JsL6f3](https://purdue.ca1.qualtrics.com/jfe/form/SV_8Bo4arvA9JsL6f3)

For more information, please contact Terry Ham at: [hamt@purdue.edu](mailto:hamt@purdue.edu) or [globalsciencepartners@purdue.edu](mailto:globalsciencepartners@purdue.edu)