

# EAPS WEEKLY NEWSLETTER

18 July 2016 | [EAPS on Facebook](#) | [EAPS on Twitter](#)

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## DEPARTMENT NEWS

### NEW EAPS STAFF

We are pleased to announce that we will have a new Communications Specialist, Logan Judy (starting **July 18th**) and Senior Academic Advisor, Molly Gilbert (starting **August 2nd**).

Logan is currently working for the Columbian Park Zoo as their Marketing Manager, and Molly will be transitioning to EAPS from the CoS advising office.

Welcome to the EAPS team!

### PUBLICATIONS

Jin, Z., Zhuang, Q., Tan, Z., Dukes, J. S., Zheng, B. and Melillo, J. M. (2016), Do maize models capture the impacts of heat and drought stresses on yield? Using algorithm ensembles to identify successful approaches. Glob Change Biol. doi:10.1111/gcb.13376

# Earth Atmospheric Planetary Sciences



## EAPS MEETINGS & EVENTS

### EAPS FACULTY & STAFF FALL RETREAT

**August 18, 2016**

Beck Ag Center, Rm 111  
8:30 AM – 4:00 PM

### EAPS FALL WELCOME BACK PICNIC

**August 18, 2016**

Cumberland Park, North Shelter  
4:30 – 7:00 PM

### FALL 2016 - PRIMARY COMMITTEE MEETINGS

**September 6, 2016**

3:00 PM  
HAMP 3201

### FALL 2016 - FACULTY MEETINGS

**Tuesday, Sept. 13, 2016**

**Tuesday, Oct. 18, 2016**

**Tuesday, Nov. 29, 2016**

3:00 PM  
HAMP 3201



## PUPS

### PURDUE UNIVERSITY PLANETARY SCIENCE



There is a new student club called PUPS (Purdue University Planetary Science)–to provide a

sense of community for students who are interested in planetary sciences, as well as, providing encouragement and information about the future of planetary science. The goal is to increase awareness of and the interdisciplinary nature of planetary sciences.

Advisor: Briony Horgan.  
E-mail: [briony@purdue.edu](mailto:briony@purdue.edu)

### SUMMER 3-CREDIT FIELD COURSE OPPORTUNITIES WITH ECOSYSTEM FIELD STUDIES!

Colorado Ecosystem Field Studies – Study, camp, & hike in the Colorado Rocky Mountains from **July 18 – August 6**

An opportunity to apply classroom & textbook learning while immersed in an incredible ecosystem setting! Gain valuable career skills in hands-on ecosystem field research. Earn 3 undergraduate transfer credits. Also offering post-course, extended credit options of Independent Research & Conservation Internship. Open to students from all universities & majors. Accredited by the University of Montana at Missoula’s Environmental Studies. Program: ENST 391- for 3 undergraduate semester transfer credits.

For all course information visit the course website: [www.EcoFS.org](http://www.EcoFS.org) or see the attached flyer. Direct any further questions to Professor Steve Johnson, Course Director at [steve@EcoFS.org](mailto:steve@EcoFS.org)

## 10<sup>th</sup> ANNUAL GRADUATE CLIMATE CONFERENCE

The 10<sup>th</sup> Annual Graduate Climate Conference, which will be held **October 28-30, 2016** at the University of Washington Pack Forest Conference Center. The Graduate Climate Conference (GCC) is an interdisciplinary climate conference run by graduate students, for graduate students, with the goal of assembling a broad range of talks and posters featuring high-quality research focused on past, present, and future climate change and its impacts. They encourage students at all stages of their graduate career to apply and we seek abstracts on climate research from a variety of disciplines from the physical, natural, and social sciences and humanities, including: anthropology, atmospheric sciences, biology, Earth and environmental sciences, economics, engineering, ethics, geography, law, oceanography, public policy, and resource management.

They highly encourage abstracts from students with traditionally under-represented backgrounds.

The abstract submission period opens **April 11** and closes **June 1**. Lodging and meals are covered for all participants. Limited travel funding is also available. Please see our website for more information and for submitting abstracts: [www.graduateclimateconference.com](http://www.graduateclimateconference.com)

The GCC 2016 organizing committee.

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### OVERLEAF PRO

The Purdue University Graduate School is providing free Overleaf Pro accounts for all students, faculty and staff who would like to use a collaborative, online LaTeX editor for their projects, presentations and papers. See flyer for details.

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### JOB ANNOUNCEMENTS

#### OPERATIONAL FORECASTER

Commodity Weather Group, LLC is seeking a skilled Operational Forecaster to join the Washington, DC area office to help build its growing business. Starting salary is: \$43,000/year

Send applications to:  
[applications@commoditywx.com](mailto:applications@commoditywx.com)  
See attached flyer for more details.

CIMMS RESEARCH ASSOCIATE AT SPC (SATELLITE METEOROLOGIST)

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma is currently looking for a Research Associate to provide leadership, satellite expertise, and meteorological support for the GOES-R Proving Ground effort based at the NOAA/NWS Storm Prediction Center (SPC).

To apply, please send 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  
[treinfke@ou.edu](mailto:treinfke@ou.edu)  
ATTN: SPC GOES-R

See attached flyer for more details about the position.



**"SKILLS PERFORMANCE" TRAINING OPPORTUNITIES AVAILABLE FOR STAFF**



Purdue University – Training offers a wide selection of extension courses for both personal and professional growth. Taught by experts in their fields, the courses provide practical, hands-on experience. And, best of all, anyone can afford them. Take a look through their online catalog for courses that interest you. Then, register for the courses you want right now using the web site below!

Please click here to sign up for upcoming classes:  
<https://www.eventreg.purdue.edu/training/Home.aspx>

**COSINE**

Cosine is a FREE evening science help center

COSINE (College of Science Instructional Nightly Enrichment) is a free tutoring program to help students in first-year courses in Biology, Chemistry and Math. COSINE offers evening tutoring right in your own backyard. Our goal is to help you develop problem-solving skills needed to do your homework. Please visit their summer location for assistance. COSINE at Shreve Hall URSC (you may enter from the new dedicated entrance on 3rd street) from 6 – 9 pm on Tuesdays, Wednesdays, and Thursdays of summer school. Tutors will be available beginning **June 14, 2016**.

\*\*\* For optimal tutoring results, bring your textbook and class notes. \*\*\*

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**ENDOWMENT FUND CREATED IN REMEMBRANCE OF PAUL BIRKHIMER (SUZANNE ZURN-BIRKHIMER'S HUSBAND)**

As you may know, Paul Birkhimer, Suzanne Zurn-Birkhimer's husband, lost his battle with pancreatic cancer last summer. An endowment has been set up in his name, with the funds being intended to support the professional development for advisors in the School of Engineering Education, Paul's home school, where he was an advisor in the First Year Engineering Program. If you would like to contribute to this endowment, you may use the on-line form at <https://goo.gl/tiq42l> or you can set up a payroll deduction online.

Group trainings may be requested by sending an email to [IRBCoeusLiteTraining@purdue.edu](mailto:IRBCoeusLiteTraining@purdue.edu), or calling the HRPP office at 765-494-5942.

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**SUMMER WORKSHOP IN MATHEMATICAL MODELING OF EARTH'S DYNAMIC SYSTEMS**

This workshop will be an intense, hands-on introduction to the creation and use of numerical models as a method for investigating the dynamics of Earth systems. Participants will learn how to translate their understanding of Earth processes into systems of differential equations, and solve them to

test hypotheses concerning both modern and ancient systems. In addition, participants will learn how to apply and evaluate selected existing Earth system models. The short course is open to graduate students and faculty. The event is from **July 31- Aug 5, 2016** in University Park, PA. See the attached flyer for additional details and registration information.

## BIRTHDAYS



**July 26** William Hinze  
**July 31** Stacie Cordell

### 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 McQuern ([fmcquern@purdue.edu](mailto:fmcquern@purdue.edu)) by 5:00pm on Thursday of each week for inclusion in the Monday issue.

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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:

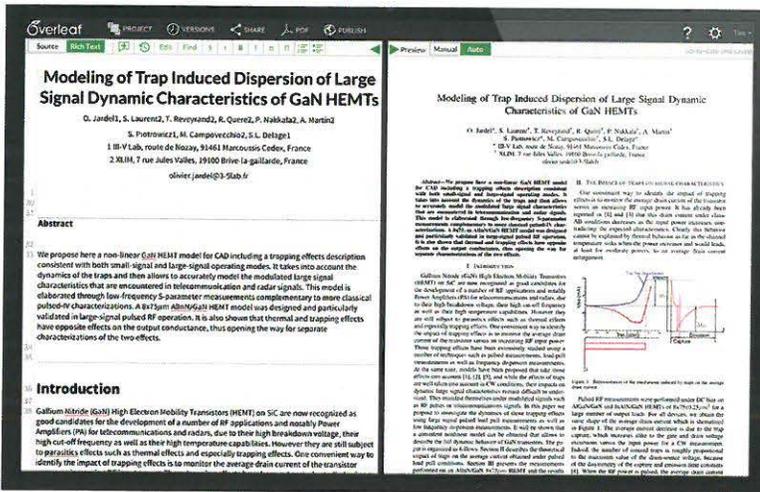
[http://www.eaps.purdue.edu/resources/information\\_technology/index.htm](http://www.eaps.purdue.edu/resources/information_technology/index.htm)

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>



# Sign up for your FREE Overleaf account from Purdue today!

Free LaTeX authoring tool, tutorials, Purdue templates & resources at [www.overleaf.com/edu/purdue](http://www.overleaf.com/edu/purdue)



**Real-time preview** - Overleaf compiles your document in the background so you can see the results right away!

**Finding errors fast** - Overleaf shows you errors and warnings as you go so you can catch them early, and you don't have to find them in the LaTeX log.

**LaTeX in the cloud** - Overleaf allows you to edit online from anywhere on any device, including tablets and mobiles - no software to install.



create



present



publish



teach

The Purdue University Graduate School is providing free Overleaf Pro accounts for all students, faculty and staff who would like to use a collaborative, online LaTeX editor for their projects, presentations and papers.

Overleaf is designed to make the process of writing, editing and producing your research papers and project reports much quicker and easier for you and your collaborators. Overleaf also links to other services such as Mendeley, Git and Plot.ly to best fit into your workflow.

**FACULTY:** Teaching accounts are available to create, distribute, and review assignments.



[www.overleaf.com/edu/purdue](http://www.overleaf.com/edu/purdue)

## **CIMMS Research Associate at SPC (Satellite Meteorologist)**

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for a Research Associate to provide leadership, satellite expertise, and meteorological support for the GOES-R Proving Ground effort based at the NOAA/NWS Storm Prediction Center (SPC). The SPC is located at the National Weather Center (NWC) in Norman, OK, a highly collaborative environment containing a number of NOAA and OU organizations, including the National Severe Storms Laboratory, NWS Warning Decision Training Division, NWS Forecast Office, OU School of Meteorology, and OU Center for Analysis and Prediction of Storms. This project will include activities focused to maximize the diagnostic and forecast value of geostationary satellite data and products. The incumbent will interact with NWS operational forecasters to prepare them for new satellite dependent products that will become operationally available after the launch of GOES-R.

The principal duties of this position are:

1. Serve as a "Satellite Liaison" at the SPC and the Hazardous Weather Testbed (HWT), leading GOES-R Proving Ground efforts on satellite based hazardous weather products and demonstrating the unique and complementary value of satellite information to forecasters;
2. Develop and/or document satellite dependent forecast and analysis tools and training focused on the specific needs of hazardous weather forecasters; up to 20% of time may be used to conduct applied research on GOES-R products applicable to improving severe weather forecasting, nowcasting, or warning decision-making;
3. Test and validate proposed new satellite dependent products and decision aids for forecasters with an emphasis on exploring the value of advanced satellite products for detection and short-term prediction of convective storms and associated hazards;
4. Serve as "implementation expert" for selected planned GOES-R products and their proxies;
5. Participate in HWT experiments including the annual Spring Forecast Experiment serving as the focal point for satellite centered activities;
6. Provide satellite expertise to the logistical support of any field experiments headquartered out of the National Weather Center;
7. Bridge satellite-related activities between the Warn-on-Forecast program and the NWS and NESDIS.
8. Represent the GOES-R effort within the HWT by contributing to formal scientific publications, and/or attending off-site conferences, symposia and hazardous weather related outreach events;
9. Develop synergy and shared accomplishments with the NOAA Testbeds and the GOES-R Proving Grounds collocated with the Aviation Weather Center in Kansas City, MO, the NESDIS Satellite Analysis Branch-Weather Prediction Center-Ocean Prediction Center in College Park, MD, and the NWS OCONUS Regional Headquarters in Anchorage, AK and Honolulu, HI .
10. Enhance collaborations with the Cooperative Institute for Meteorological Satellite Studies/University of Wisconsin, Cooperative Institute for Research into the Atmosphere/Colorado State University, and the NASA/Short-term Prediction Research and Prediction Center to test, evaluate, and /or provide feedback on new satellite-based tools and products related to convective storm and fire weather applications.
11. Perform related duties as assigned.

The minimum qualifications for the position are:

1. A Master's or PhD Degree in Meteorology, Atmospheric Science or related area and at least one year experience in operational meteorology or applied research; additional post-graduate education may be substituted for experience.
2. Emphasis will be placed on applicants with considerable experience in satellite meteorology, and its application to hazardous weather prediction, including deep convection, high resolution numerical models, and ensemble prediction systems.

Applicants should identify their demonstrated expertise with Satellite Meteorology and any of the following areas: Severe Thunderstorms; Numerical Modeling; Ensemble Systems and Probabilistic Forecasting; Warning Decision Making; and Fire Weather Meteorology. Excellent oral and written communication skills are highly desired and a strong ability to work in a collaborative team environment is needed for the position. Please describe experience with Linux (or UNIX) operating systems, software skills including programming and scripting languages, web page development, graphic design or illustration, and AWIPS2/N-AWIPS workstations.

Normal working hours will be observed except for occasional irregular hours during data collection, warning/forecast experiments or workshops conducted at remote sites. The incumbent will receive training and gain expertise in warning and forecasting decision-making.

The new hire will be employed by CIMMS with technical oversight provided by SPC management. The incumbent works under general supervision but is expected to work independently and determine action to be taken in handling all but unusual situations. This is a non-supervisory position, although the incumbent is expected to serve as a leader of scientific or technical experiments, groups, or teams; therefore strong teamwork and leadership skills are necessary. The salary for this position is competitive and will be based on experience, skills, and knowledge. Information on University benefits may be found at <http://hr.ou.edu/Employees/New-Employees-at-OU/OU-Benefits-Overview>.

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](mailto:treinke@ou.edu)  
ATTN: SPC GOES-R

*The University of Oklahoma is an Equal Opportunity/Affirmative Action employer.*



## Commodity Weather Group, LLC

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Commodity Weather Group, LLC is seeking a skilled Operational Forecaster to join the Washington, DC area office to help build its growing business.

### Skills required in an ideal candidate include:

- upcoming or current B.S. or M.S. degree in meteorology/atmospheric science
- skilled forecaster passionate about weather
- able to communicate effectively through multiple mediums
- experienced in demanding customer service environment
- self-motivated and high-energy individual with strong work ethic
- focused on continuous personal improvement
- creative, positive-minded, able to collaborate in team environment
- experienced or interested in commodities sectors (energy/agriculture)
- ability to work very early hours (3 or 330 am onward) during Monday-Friday workweek

#### Distribution of Responsibilities

- 60% operational forecasting/support of related products
- 20% customer interaction and support
- 20% new product development, marketing support, etc.

Please contact CWG if you are qualified for this opportunity.

Resumes should include GPA or an unofficial transcript if a graduate within the past 3 years. In addition, please submit a brief paragraph describing how you fit the profile above and will add value to the firm.

CWG offers employees a comprehensive compensation and benefits package, including:

- fully company-funded health, dental, and vision insurance for employees and dependents
- fully company-funded life, short-term and long-term disability insurance for employees
- 401(k) plan with company match
- generous leave policies
- bonus/profit-sharing opportunities
- company-sponsored social events
- transportation subsidies

Starting salary for this position is \$43,000/year.

Submit resumes to [applications@commoditywx.com](mailto:applications@commoditywx.com)