BE SURE TO CHECK OUT ALL OF THE EAPS COMMUNICATIONS MEDIA!
Facebook
Twitter
Department Magazine
Website News

EAPS MEETINGS & EVENTS

EAPS FACULTY MEETINGS
Tuesday’s 3:00 PM
HAMP 2244
Feb. 11
Feb. 25 – special meeting on “Be a Better Ally”
March 10
April 14
May 5

PRIMARY COMMITTEE MEETINGS
Tuesday’s 3:00 PM
HAMP 2244
April 7
April 21

SPRING 2020
EAPS AWARDS BANQUET
Ross Ade Pavilion
Buchanan Room
April 27

EAPS K-12 OUTREACH CALENDAR OF EVENTS
http://www.eaps.purdue.edu/outreach/Outreach_News.html

EAPS WEEKLY NEWSLETTER
27 January 2020

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University News..........................................................12

DEPARTMENT NEWS

EAPS COLLOQUIA
Thaddeus Komacek
University of Chicago
Thursday, January 30, 2020
3:30 PM
HAMP 1252

[See attached flier for more information]

EAPS NEW PUBLICATIONS


http://www.eaps.purdue.edu/
yield and irrigation water requirement."
Agricultural Water Management 228: 105890. [PDF]


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**EAPS NEW UNDERGRADUATE ADVISOR**

We would like to introduce you to our new EAPS Undergraduate Advisor, Barbara L.S. Walker. Be sure to stop by and say hello. Below is a short bio:

I am a Boilermaker through and through. My father was an Army ROTC instructor in the late 60s-early 70s. My husband and I met while undergrads at Purdue. My sister and brother are also alumni of Purdue. Our older son is an Industrial Engineering graduate; our younger son is a Civil Engineering graduate, and our daughter is a current student in Speech, Language, and Hearing Sciences (SLHS).

I taught Elementary school in Thorntown, Indiana and then returned to Purdue to earn a Master's in Counseling. I later taught first grade in Catlett, Virginia and served as the director of a pre-school in Johnstown, Pennsylvania.

Most of my career has been focused on teaching at the community college level. I have been an adjunct faculty member with Fayetteville Technical Community College (FTCC), Fayetteville, North Carolina; Pennsylvania Highlands Community College (PHCC), Johnstown, PA; and most recently, Ivy Tech Community College, Lafayette, Indiana. I taught a wide variety of courses including: Introductory Psychology, Behavior Modification, Health and Wellness, Introduction to Counseling, Stress Management, Abnormal Psychology, Introduction to Human Services, Helping Relationships, Intake and Assessment, and Human Development.

I’ve been fortunate to have lived many places in the US and in Germany and have visited much of the United States and a small variety of countries. Thirty years after I left Purdue, I am very blessed to have returned to campus and have the chance to help EAPS undergraduates create a solid foundation for their futures.

Boiler up!

Barbara

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**STUDENT NEWS**

**COMMUNITY SERVICE/SERVICE-LEARNING GRANT PROGRAM**

Purdue’s Office of Engagement provides grants to students or student organizations for work on community service-learning projects. This program’s goal is to expand the community involvement of Purdue students in partnership with communities, nonprofit agencies, schools, and governmental bodies.

Both the application and guidelines for the Student Grant Program for Community Service/Service Learning Projects can be found online: [https://slg.engagement.purdue.edu](https://slg.engagement.purdue.edu)
All are encouraged to share this information with students and student organizations who may be interested in applying for the grant. Applications for Spring semester projects must be submitted online on or before Wednesday, February 5, 2020. Applicants will be notified of a decision no later than Friday, February 28, 2020.

Inquiries may be directed to Lisa Duncan, Purdue Office of Engagement at 49-40899 or lduncan@purdue.edu.

THE OFFICE OF INTERDISCIPLINARY GRADUATE PROGRAMS PRESENTS THE 2020 SPRING RECEPTION

Registration Open. Submit an application by Friday, February 28th to present a poster apply for the Most Outstanding Interdisciplinary Project Award - $1000 Prize! Find more information online: Purdue.edu/gradschool/oigp.

Wednesday, May 6, 2020
10 AM – 12 PM
North and South Ballrooms
At the Purdue Memorial Union

Open Poster Session
10:00 – 11:30
Award Presentation & Keynote Address
11:20-12:00

Contact 765-496-1635 with any questions or email: oigp@purdue.edu/

SUMMER INTERNSHIP OPPORTUNITY IN SEISMOLOGY

Attention undergraduates: There is a summer internship opportunity in seismology (https://www.iris.edu/hq/internship/about). Deadlines are Feb 1st, so hurry to apply!

This internship is widely known throughout the seismological community, and gives interns a huge leg-up in applying for geophysics graduate programs. They also provide a generous stipend and pay for a trip to AGU the following year. This internship is incredibly beneficial for those who want to pursue a graduate degree in geophysics.

2020 CENTRAL IOWA NWA SCHOLARSHIPS ANNOUNCEMENT

The Central Iowa Chapter of the National Weather Association is pleased to announce that we are again offering two atmospheric science scholarships this year. The Tim Samaras Memorial Scholarship is for meteorology students who are pursuing a career in research meteorology. The Pam Daale Memorial Scholarship will be focused on students pursuing careers in broadcast or operational meteorology. The award for each scholarship will be $1500. More information can be found in the links below - or via the attached announcement.

Pam Daale Scholarship
Tim Samaras Scholarship

Scholarship applications are due February 21, 2020. Both scholarships will be awarded at the 24th Annual Severe Storms and Doppler Radar Conference that will be held March 26-28, 2020 in Ankeny, IA. Any questions can be forwarded to me at michael.fogle@noaa.gov.

OPEN METEOROLOGY GRADUATE POSITION, OHIO UNIVERSITY FALL SEMESTER 2020

Attention graduating seniors – Announcing an open funded MS position in Geography / Meteorology at Ohio University beginning Fall Semester 2020.

This is a unique position, overseeing a student forecasting lab (Scalia Lab) and teaching some lab-style observations and forecasting classes to undergraduate meteorology majors. The position is excellent experience for those considering careers in NWS and academia - indeed students who have held this position in the last 10 years have all landed successful careers with NOAA / NWS, the private sector, or in academia.

The application deadline is February 15, 2020.

Please feel free to contact Dr. Ryan Fogt (fogtr@ohio.edu), Director of Scalia Laboratory, for more information.
ACCUWEATHER ACCEPTION APPLICATIONS

AccuWeather is now accepting applications for our internship and full-time meteorologist positions this year. Students can apply online by visiting https://careers.accuweather.com/.

We have four internship positions available for the State College office, and two internship positions for Wichita. Students are welcome to apply for either or both positions. We will review candidates who are currently in their junior year, or in their senior year but not graduating until December. Seniors who graduate this spring and graduate students are not eligible.

The deadline for applying for both the internship and full-time position is Friday, February 7th.

OPENING FOR A NUMERICAL WEATHER PREDICTION (NWP)

DTN has an opening for a Numerical Weather Prediction (NWP) Scientist in its Norman, OK, office. The successful candidate will assist with supporting and enhancing DTN’s WRF-based NWP capabilities. Key tasks involve applying WRF data assimilation techniques and developing relevant applications while working in an AWS high-performance computing (HPC) environment.


Mobile iOS APPLICATION DEVELOPER POSITION

DTN currently has a Mobile iOS Application Developer opening for an individual with a passion for learning and solving challenging problems.


LOOKING FOR A LEVEL 1 SOFTWARE ENGINEER

DTN is looking for a Level 1 Software Engineer to join our team! This person will be an addition to an industry-specific team (such as offshore energy, transportation, or sports and safety) that creates full-stack product and platform applications, from user interfaces to backend services, using a cloud-first distributed systems approach. Each team is fully responsible for its products, from initial concept, through iteration based on market feedback, to production implementation and delivery.


METEOROLOGICAL DATA SCIENTIST POSITION

DTN is looking for a Meteorological Data Scientist to join our team! https://dtndtn.wd1.myworkdayjobs.com/en-US/DTN_Careers/job/Norman-OK/Data-Scientist_R-000031

MS OR PHD ASSISTANTSHIP AVAILABLE AT THE UNIVERSITY OF NEBRASKA-LINCOLN

This assistantship is available for Fall 2020 semester. Selected student will complete an MS or a PhD. in Natural Resources Sciences degree with an Applied Climate Science specialty (e.g., Climate Assessment and Impacts or Bio-Atmospheric Interactions).

Salary
$24,000 per year for MS Students with health insurance and tuition waiver (student is responsible for fees).

$26,000 per year for PhD. students with health insurance and tuition waiver (student is responsible for fees).

Start Date
August 1, 2020 (classes begin on August 24, 2020)

Description
Exact topic of research will be developed after consultation with the advisor. However, it is
expected that research may focus on land-atmosphere interactions and climatological (and other related) data analysis. Any modeling (e.g., WRF) experience would be a plus.

**Qualifications**

B. S. or M.S. in meteorology, geography, climate science, engineering, natural resources, or closely related field.

Previous programming background is not required, however, past experience would be a plus for the student.

**To Apply**

Applicants must create a single document (e.g., a Word or pdf document) and the name of the file must contain the applicant’s first and last name. Application document must include:

1. A cover letter that articulates their interest pursuing an advanced degree
2. Curriculum Vitae or Resume
3. Unofficial transcripts
4. Unofficial general GRE scores
5. List of three references and their email addresses.

Send file to Dr. Rezaul Mahmood, rmahmood2@unl.edu. Applications will be screened as they are received. Formal application to UNL, including official transcripts, GRE, and recommendations, is required subsequent to selection of the successful candidate.

For information about the School of Natural Resources, visit: [https://snr.unl.edu](https://snr.unl.edu). Contact Dr. Rezaul Mahmood (rmahmood2@unl.edu) with general questions about the assistantship.

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**2020 GRADUATE STUDENT AND POST-DOCTORAL FELLOWS RESEARCH AWARDS COMPETITION**

February 12, 2020
6-9 PM
Stewart 214 A-D
Call for Abstracts / Posters

The Purdue University Chapter of Sigma Xi, the scientific research society, is conducting a Graduate Student and Post-Doctoral Fellow Research Awards Competition in the format of a scientific poster session. You and your advisor do not need to be Sigma Xi members to participate in this competition. Also, you do not need a brand new finding. You can use a recent poster presented at a scientific conference or meeting.

There will be a first prize of $200, provided by Sigma Xi, as well as recognition for other outstanding posters in each of the four research areas:

- Graduate Student, Physical Sciences
- Graduate Student, Life and Agricultural Sciences
- Graduate Student, Engineering
- Graduate Student, Behavioral and Social Sciences
- Post-doctoral, Behavioral Sciences
- Post-doctoral, Physical, Life and Engineering Sciences

There will be one prize for each approximately 15 posters in a research area. In recent years, this has resulted in 2-3 top awards in both Life Sciences and in Engineering. Post-doctoral Fellows also are eligible to participate. There will be one award for post-doctoral fellows across the two post-doc categories.

[See poster for additional information and complete details]

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**THE ELEMENTS OF MENTORING**

Developing Exceptional Mentors with Brad Johnson.
January 31st – WALC 2088

[See flier for dates and times]

**GUIDELINES, REPORTING AVENUES IN PLACE TO SAFEGUARD GRADUATE STUDENT MENTORING**

Purdue’s Graduate School is reminding graduate students of the guidelines established to foster optimal graduate student mentoring as well as the methods in place for reporting detrimental or questionable mentoring practices.

"Recent events at another institution have drawn attention to the tremendously negative impact
detrimental mentoring practices can have on graduate students," says Linda Mason, dean of the Graduate School. "One of the most important parts of the graduate student experience is the mentoring received from a major professor, as well as the numerous other individuals who can positively impact them."

In 2017, the Graduate Council put forth a document on guidelines for graduate student mentoring and advising. Graduate students who are experiencing mentoring relationships that are not aligned with these guiding principles should report it, Mason says.

Students can speak to the head of the department or the chair of the department’s graduate program as a first course of action. Another avenue for reporting is to visit the Graduate School’s Office of Graduate Assistance. The office can provide confidential advice and, if necessary, referrals to other sources of help.

Students also can anonymously report negative mentoring behaviors to the University Hotline at 866-818-2620 or via the web.

"Purdue University and the Graduate School want every graduate student to have a rich and meaningful graduate experience," Mason says. "For that to happen, students need effective mentors."

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EARTH SCIENCE RESEARCH GRANTS AVAILABLE!

The Evolving Earth Foundation is pleased to announce the availability of grants for undergraduate and graduate student research in the earth sciences.

Ten grants are available for 2020 in amounts up to $3000 per grant.

Application deadline is March 2nd, 2020

For application information or to find out more, please visit our website: [www.evolvingearth.org](http://www.evolvingearth.org)

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CIMMS POST-DOCTORAL RESEARCH ASSOCIATE – SEvere Weather

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for a Post-doctoral Research Associate to work with the National Severe Storms Laboratory (NSSL). This position will work at NSSL in Norman, OK, which is located within the National Weather Center (NWC), a highly collaborative operational, research, and academic environment containing a number of NOAA and OU organizations. Here, you will work in an exciting environment focused on the development of operationally relevant severe weather warning applications and techniques and have opportunities to interact with NOAA scientists, NWS forecasters and academic scientists within both the NWC and the broader meteorological community.

As a CIMMS Postdoctoral Research Associate working with NSSL, you will provide scientific and meteorological expertise, along with technical support, for the development of severe convective weather applications for the prediction (0-60 minute time scale) and detection of hazards such as tornadoes, damaging wind, large hail, and lightning. This position is heavily oriented in applied research, and the list below describes potential projects:

1. Develop and/or improve calibrated Probabilistic Hazard Information for the prediction of severe weather hazards;

2. Develop, test, and implement new severe weather warning guidance algorithms for use in the Multi-Radar Multi-Sensor (MRMS) system and on the WSR-88D radar network;

3. Develop machine learning techniques for use in severe weather data analysis and short term nowcasting of tornadoes, hail, damaging wind and lightning;

4. Improve lightning forecasts and applications of lightning data in operational use.

The minimum qualifications for the position are:
1) A Doctorate Degree in Meteorology, Atmospheric Science, or related area.

When applying, please indicate your preference(s) as to which project areas in which you are interested. Additionally, please include information related to your experience in software development, web development, graphic design/visualization, and Linux (UNIX) environments including the AWIPS2/N-AWIPS systems. Your ability to communicate clearly is of utmost importance.

Normal working hours will be observed except for occasional irregular hours during data collection, warning/forecast experiments, or workshops conducted at remote locations. General supervision will be provided by CIMMS staff with technical oversight provided by NSSL and CIMMS management. You will work under general supervision but are expected to work independently and determine action to be taken in handling all but unusual situations. This is a non-supervisory position. Salary is based on your education, experience, skills, and knowledge.

Information on University of Oklahoma benefits may be found at https://hr.ou.edu.

To apply for the position, please send your CV, cover letter, and list of three references to:

CIMMS Careers
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
CIMMS-careers@ou.edu
Job Requisition: Severe Weather Post-Doc

CIMMS RESEARCH ASSOCIATE – SEVERE WEATHER RESEARCH ASSOCIATE

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for a Research Associate to work with the National Severe Storms Laboratory (NSSL). These positions will work at NSSL in Norman, OK, which is located within the National Weather Center (NWC), a highly collaborative operational, research, and academic environment containing a number of NOAA and OU organizations. Here, you will work in an exciting environment focused on the development of operationally relevant severe weather warning applications and techniques and have opportunities to interact with NOAA scientists, National Weather Service forecasters and academic scientists within both the NWC and the broader meteorological community.

As a CIMMS Research Associate working with NSSL, you will work as part of a team to provide scientific and meteorological expertise, along with technical support, for the development of severe convective weather applications for the prediction (0-60 minute time scale) and detection of hazards such as tornadoes, damaging wind, large hail, and lightning. This position is heavily oriented towards the Research-to-Operations process, and the list below describes potential projects:

1. Develop and/or improve calibrated Probabilistic Hazard Information for the prediction of severe weather hazards;

2. Develop, test, and implement new severe weather warning guidance algorithms for use in the Multi-Radar Multi-Sensor (MRMS) system and on the WSR-88D radar network;

3. Develop machine learning techniques for use in severe weather data analysis and short term nowcasting of tornadoes, hail, damaging wind and lightning.

The minimum qualifications for the position are:

1) A Masters Degree in Meteorology, Atmospheric Science, or related area.

When applying, please indicate your preference(s) as to which project areas in which you are interested. Additionally, please include information related to your experience in software development, web development, graphic design/visualization, and Linux (UNIX) environments including the AWIPS2/N-AWIPS systems. Your ability to communicate clearly is of utmost importance. Normal working hours will be observed except for occasional irregular hours during data collection, warning/forecast experiments, or workshops conducted at remote locations. General supervision will be provided by

http://www.eaps.purdue.edu/
CIMMS staff with technical oversight provided by NSSL and CIMMS management. You will work under general supervision. Salary is based on your education, experience, skills, and knowledge. Information on University of Oklahoma benefits may be found at https://hr.ou.edu.

To apply for the position, please send your CV, cover letter, and list of three references to:

CIMMS Careers
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
CIMMS-careers@ou.edu
Job Requisition: Severe Weather RA

CIMMS RESEARCH SCIENTIST – SEVERE WEATHER RESEARCH SCIENTIST

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for a Research Scientist to work with the National Severe Storms Laboratory (NSSL). These positions will work at NSSL in Norman, OK, which is located within the National Weather Center (NWC), a highly collaborative operational, research, and academic environment containing a number of NOAA and OU organizations. Here, you will work in an exciting environment focused on the development of operationally relevant severe weather warning applications and techniques and have opportunities to interact with NOAA scientists, National Weather Service forecasters and academic scientists within both the NWC and the broader meteorological community.

As a CIMMS Research Scientist working with NSSL, you will provide scientific and meteorological expertise, along with technical support, for the development of severe convective weather applications for the prediction (0-60 minute time scale) and detection of hazards such as tornadoes, damaging wind, large hail, and lightning. This position is heavily oriented towards the Research-to-Operations process, and the list below describes potential projects:

1. Develop and/or improve calibrated Probabilistic Hazard Information for the prediction of severe weather hazards;
2. Develop, test, and implement new severe weather warning guidance algorithms for use in the Multi-Radar Multi-Sensor (MRMS) system and on the WSR-88D radar network;
3. Develop machine learning techniques for use in severe weather data analysis and short term nowcasting of tornadoes, hail, damaging wind and lightning;
4. Improve lightning forecasts and applications of lightning data in operational use.

The minimum qualifications for the position are:
1) A Doctorate Degree in Meteorology, Atmospheric Science, or related area;

When applying, please indicate your preference(s) as to which project areas in which you are interested. Additionally, please include information related to your experience in software development, web development, graphic design/visualization, and Linux (UNIX) environments including the AWIPS2/N-AWIPS systems. Your ability to communicate clearly is of utmost importance. Please indicate any experience with writing proposals and managing projects as well.

Normal working hours will be observed except for occasional irregular hours during data collection, warning/forecast experiments, or workshops conducted at remote locations. General supervision will be provided by CIMMS staff with technical oversight provided by NSSL and CIMMS management. You will work under general supervision but are expected to work independently and determine action to be taken in handling all but unusual situations. This is a non-supervisory position, although you may serve as a leader of technical teams. Salary is based on your education, experience, skills, and knowledge. Information on University of Oklahoma benefits may be found at https://hr.ou.edu.

To apply for the position, please send your CV, cover letter, and list of three references to:

CIMMS Careers
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
CIMMS-careers@ou.edu
Job Requisition: Severe Weather RS

http://www.eaps.purdue.edu/
The Center for Ocean-Land-Atmosphere Studies (COLA) and the department of Atmospheric, Oceanic and Earth Sciences at George Mason University invite you to join us for the second annual Earth System Observations & Modeling Graduate Symposium. This symposium will bring together graduate students from across the United States to share research on the Earth system and its climate. A wide variety of topics will be considered for presentation, so all Earth system science graduate students are encouraged to apply. The Graduate Symposium provides an opportunity for masters and doctoral students to share their research results, network with their peers and meet scientists from Mason, nearby universities and federal labs in the Washington, DC area.

All Earth system graduate students are encouraged to apply!

TRAVEL AWARDS ARE AVAILABLE
Contact esomsym@gmu.edu or visit tinyurl.com/esom2020 for more information.

FRENCH CULTURE, FOOD, & HEALTH
May 23-31, 2020
Roanne, France
NUTR 39800

[See attached flier for additional information]

EXPLORER-IN-TRAINING OPPORTUNITY
The Cooperative Program for the Advancement of Earth System Science (CPAESS), a community program of the University Corporation for Atmospheric Research (UCAR) is currently seeking Mapping trainees to participate in the NOAA Office of Ocean Exploration and Research Okeanos Explorer Program’s Explorer-in-Training program http://oceanexplorer.noaa.gov/edu/explorer-in-training/welcome.html for the 2020 field season. This program is open to enrolled undergraduate and graduate students as well as those who have recently graduated from a higher education program. The Explorer-in-Training program will provide the opportunity to gain experience using an advanced multibeam bathymetric sonar mapping system. While contributing in a significant way to the Okeanos Explorer ocean exploration mission.

A typical placement will consist of one (1) 20-30 day expedition offshore aboard the Okeanos Explorer during the spring, summer and fall of 2020, in the Atlantic Ocean. EiTs will stand an eight-hour mapping watch each day while on board. The duties of mapping watchstanders typically include the acquisition and processing of multibeam data and associated sound velocity profile data, as well as precise record keeping. Each trainee will also complete an onboard project of their own interest, with approval and support from experienced mapping team personnel. A generous pre-tax daily stipend of $150 is provided, as well as travel costs to and from the ship. To apply please go to: https://cpaess.ucar.edu/okeanos-application-2020

[See attachment for more information]

SCHOLARSHIPS/PAID INTERNSHIPS AT NOAA
Opportunities for undergrads, particularly in ATMS, scholarship/paid internships at NOAA.

NOAA Hollings Scholarship: https://www.noaa.gov/office-education/hollings-scholarship/prospective

NWS William M. Lapenta Internship: https://www.weather.gov/ncep/student_internships

Deadlines for both are January 31, 2020.

Our current grad student, Susie Beveridge, had a Hollings scholarship in 2018, and spent a summer
working at NSSL in Norman, OK. Another current grad student, Connor Belak, was a recipient of the NWS Student Internship and worked at WPC in College Park, MD. (It was recently renamed the Lapenta Internship in honor of former NCEP director Bill Lapenta, who died earlier this year.) Both of them are willing to answer questions about the experience from our undergrads.

GRADUATE RESEARCH ASSISTANTSHIP OPPORTUNITY AT THE UNIVERSITY OF NORTH DAKOTA

Opportunity for a prospective ATMS graduate student, located at the University of North Dakota, starting next fall. [See attached flier for more information]

EARTH SYSTEM OBSERVATIONS & MODELING (ESOM) GRADUATE SYMPOSIUM

The Center for Ocean-Land-Atmosphere Studies (COLA) and the College of Science at George Mason University (GMU) are hosting the 2nd annual Earth System Observations & Modeling (ESOM) Graduate Symposium on April 22, 2020. We would be delighted to host any students from your earth atmospheric and planetary sciences department at Purdue to present their graduate research at this upcoming event.

The inaugural ESOM Graduate Symposium, hosted on Earth Day 2019, was a hugely successful event that hosted over 50 graduate students from across the Mid-Atlantic region. To encourage a unique and growing attendance, our committee would like to broaden the submission topics to host an even larger event.

For this upcoming symposium, we encourage earth science graduate students to share their research focused on observational and modeling topics related to our climate. Symposium topics will be based upon the number and theme of submissions, so all interested earth science graduate students are encouraged to apply.

This one-day event will include multiple poster sessions, presentations from attendees and keynote speakers, and intimate space for masters and doctoral students to network with their peers and meet scientists from Mason, nearby universities and federal labs in the Washington, DC area.

Any interested students should submit their abstracts to (https://gmuscience.co1.qualtrics.com/jfe/form/SV_dj2UvV3owjFHfa5). There is funding available from our department to facilitate transportation and accommodations for presenters. We look forward to receiving submissions from your students! Please contact us at this email address (esomsym@gmu.edu), visit tinyurl.com/esom2020 for more information, and share the attached flyer to department staff and students.

JOB OPENING FOR SATELLITE LIAISON/RESEARCHER AT THE OPG

Looking for someone to work as a Satellite Liaison and Researcher with the talented team at the NWS Operations Proving Ground (OPG) in Kansas City, MO. The position is through CIRA and stationed with the OPG. Details can be found here:

https://jobs.colostate.edu/postings/73877

CIMMS RESEARCH ASSOCIATE - SMALL UNMANNED AIRCRAFT SYSTEMS

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks a research associate to assist in a new project that aims to transition small Unmanned Aircraft Systems (sUAS) into operations within NOAA. This position will be located at the NOAA/Air Resources Laboratory (ARL) Atmospheric Turbulence and Diffusion Division (ATDD) in Oak Ridge, TN. The associate will play a vital role in operating the sUAS, as well as acquiring and processing the data collected by the sUAS. The most critical task will be performing daily flights at a nearby site using ATDD’s vertical takeoff and landing (VTOL) and fixed-wing sUAS to sample boundary layer temperature, moisture, and wind fields. These datasets will be provided to the nearest National Weather Service office to assist with short-term weather forecasts.

http://www.eaps.purdue.edu/
Additionally, the associate will operate ATDD’s other fixed-wing SUAS used for obtaining in-situ meteorological and flux measurements, as well as spectral characteristics of the land surface. Following data collection, the research associate will lead efforts to process the data for further analysis. This work will provide opportunities for the associate to author research papers.

[See attached flier for complete information]

DTN IS HIRING AN NWP SCIENTIST

DTN is hiring a WRF/NWP scientist at their Norman, OK, location. This would be a great opportunity for a recent MS or PhD graduate, particularly someone with strong cloud computing or data assimilation experience. We also have an opening for a supporting AWS Cloud Engineer. Thanks.


2020 REU ON SUSTAINABLE LAND & WATER RESOURCES

Accepting applications for the 2020 Research Experience for Undergraduates on Sustainable Land and Water Resources.

Application deadline: February 24, 2020

Program dates: June 8 - August 14, 2020

Visit http://reuslawr.wordpress.com for more information and application.

Program Description: The aim of the proposed REU on Sustainable Land and Water Resources is to introduce undergraduate students to the key elements of research on land and water resources that are essential to improving management practices, with a focus on Community-Based Participatory Research (CBPR) and diverse interdisciplinary research teams. Students will work on one of three teams on projects that integrate Earth-surface dynamics, geology, hydrology and other disciplines. Research teams are hosted on two Native American reservations and at the Univ. MN and projects are developed in collaboration with the tribes’ resource management divisions. The REU incorporates an interdisciplinary team-oriented approach that emphasizes quantitative and predictive methods, CBPR, indigenous research methods, and traditional ecological knowledge.

Projects take place on the main campus of the University of Minnesota, Minneapolis; on the Fond du Lac Reservation in Northern Minnesota; and at Salish Kootenai College on the Flathead Reservation in Montana. Students in Civil Engineering, Earth Sciences, Hydrology, Chemistry, Biology, Ecology, Sustainability, Mathematics, and related disciplines are invited to apply. For a complete list of projects for this year, visit the project website at REUSLAWR.wordpress.com.

INVITATION TO ENGAGE WITH UNDERGRADUATE RESEARCH EVENTS

Purdue Undergraduate Research Conference Poster Symposium on April 14 from 8:30am to 4pm in the PMU Ballrooms Research Talks/Oral Presentations on April 15 from 8:30am to 4pm in STEW 214 We are seeking volunteers to help judge student presentations. You may register on the website to indicate your interest.

Celebrate Purdue’s Thinkers, Creators, and Experimenters Showcase April 16 from 1:30 to 3:30pm in the Co-Rec This “non-poster, poster session” encourages participants to “bring” their research to the Co-Rec for attendees to learn what they are working on through the five senses in a creative way. Examples have included autonomous cars, molecular models, ASL transcription programs, dance choreographies, a philosophical discussion of sin, invention designs, and new curricula.

We invite you to encourage student researchers to apply to present during these judged events and for students to attend these multi-disciplinary events. If you encourage students to attend with extra credit or as a course requirement, we have methods to track if a visiting student is present and can share that information with you. Contact UGresearch@purdue.edu to learn more.
These annual events are hosted by the Office of Undergraduate Research and Purdue colleges and schools. Attached is a flyer that lists these events including the new Undergraduate Research Pitch Competition.

[Flier attached]

**SCIENCE COMMUNICATION DAY AT THE STATEHOUSE**

The Science Policy Initiative of Notre Dame is currently recruiting STEM graduate students from across Indiana for a Science Communication Day at the Statehouse on March 2nd, 2020.

Participants will have the opportunity to meet with State Senators, Representatives and their staff to practice communicating about their research to a non-technical audience. The goal of the event is to increase visibility of scientists at the statehouse, and begin cultivating the relationships that are so essential for creating evidence-based policy.

[See flier for additional information]

**CIMMS PETER LAMB POSTDOCTORAL FELLOWSHIP**

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma has established the Peter Lamb Postdoctoral Fellowship that we envision will be offered annually. CIMMS is a research organization that promotes collaborative research between National Oceanic and Atmospheric Administration (NOAA) and University of Oklahoma (OU) scientists on problems of mutual interest. This collaborative basic and applied research includes the study of mesoscale and storm-scale meteorological phenomena to help produce better forecasts and warnings that save lives and property and the investigation of the societal impacts of such phenomena. Research scientists within CIMMS use observations, analysis and models to improve the understanding and prediction of high-impact weather elements and systems ranging in size from cloud nuclei to multi-state areas.

Applications must include a 3-4 page novel proposal developed by the applicant that addresses at least one of the CIMMS research themes: 1) weather radar research and development; 2) storm-scale and mesoscale modeling research and development; 3) forecast improvements research and development; 4) impacts of climate change related to extreme weather events; and 5) societal and socioeconomic impacts of high-impact weather systems. Applicants are highly encouraged to contact a CIMMS scientist before writing their research proposal to receive guidance when drafting a proposal and to ensure the mentorship of an eligible CIMMS research scientist.

The CIMMS website http://cimms.ou.edu/index.php/research has more information on projects underway within these research themes as well as contact information for CIMMS scientists working on these themes.

[See flier for complete information]

**PURDUE EMPLOYEE PRIDE INVITING LGBTQ+ FACULTY, STAFF AND GRAD STUDENTS TO SPRING EVENTS**

Purdue Employee Pride (PEP), an employee organization established in 2018 for LGBTQ+ faculty, staff and graduate students, will hold a series of events this spring. Events are open to both members of the LGBTQ+ community and allies.

PEP, which is supported by the Division of Diversity and Inclusion within the Office of the Provost, offers monthly Lunch and Learn events, social activities, networking opportunities and resources. A calendar of events is available online. To sign up for the PEP newsletter and learn about upcoming events and news, click here.
WORKING PAPER SERIES – FALL 2020 ISSUE
CALL FOR ABSTRACTS

The Susan Bulkeley Butler Center for Leadership Excellence, in partnership with ADVANCE-Center for Faculty Success, is continuing the Working Paper Series focusing on navigating careers in the academy. This peer reviewed series includes work by senior scholars, graduate students, and faculty at all stages as a space for the discussion of issues related to academic careers. The series will serve as a means for documenting and sharing interventions and/or practices and/or processes developed by and/or utilized by faculty and post-docs for navigating careers.

The call for abstracts for the fall 2020 issue is now open - nationally and globally. Complete details are in the attached pdf, as well as on the Working Paper Series website.

Abstracts must be 150 words or less and must be submitted via email to butler-advance@purdue.edu by Friday, August 21, 2020. Any abstracts sent early in the spring semester may receive a response by the end of the spring semester. Abstracts received by the deadline of Friday, August 21st will receive a reply early in the fall semester. [See attached flier for more information]

REGISTRATION OPEN FOR 2020 ENGAGEMENT & SERVICE-LEARNING SUMMIT

Please join us for the 2020 Engagement & Service-Learning Summit, Thursday, February 27, 2020 from 1:00 – 5:00 p.m., Purdue Memorial Union, hosted by the Office of Engagement. Registration is now open and full agenda of the event is attached. There is no cost to attend; however, registration is required. Registration and more information can be found HERE.

This event serves to bring together faculty, staff, students, and community partners to discuss best practices in engagement and service-learning, highlight accomplishments, and increase collaboration opportunities. This year, the event will feature two interactive tracks: a beginning track on networking and partnership formation, and an advanced track on developing engaged scholarship. A showcase of student posters and community projects in conjunction with networking and hors d’oeuvres will close the event. [Flier attached for complete details]
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.
The atmospheres of hot gas giants that orbit close to their host star have been well characterized in the past decade through space-based observations with the Hubble and Spitzer space telescopes. Light curves of transiting hot Jupiters taken over a full orbital phase provide an avenue to understand their atmospheric circulation. In this talk, I will discuss possible solutions to two puzzles about the atmospheric circulation and evolution of these hot gas giant planets. First, recent light curve observations of ultra-hot Jupiters with day-side temperatures in excess of 2500 K have found evidence for new physical processes at work in their atmospheres due to the dissociation of molecular hydrogen. I will discuss the observational differences between ultra-hot Jupiters and cooler gas giants, and describe theory for the mechanisms that impact the circulation of ultra-hot Jupiters. I will also present results from 3D general circulation modeling experiments that include the effects of hydrogen dissociation and recombination and compare these simulations to observations of KELT-9b, the hottest ultra-hot Jupiter discovered. Second, many hot and ultra-hot Jupiters are inflated, with anomalously large radii that can be up to twice as large as expected from standard evolutionary models. Understanding the anomalous radii of these transiting hot gas giant planets is a fundamental unsolved problem in planetary science. I will describe how recent observations of re-inflated warm Jupiters orbiting post-main-sequence stars and hot Jupiters orbiting main-sequence stars provide an avenue to determine the cause of radius inflation of hot and ultra-hot Jupiters. To do so, I will present evolution models studying the re-inflation of gas giants in order to determine how varying the depth and intensity of deposited heating affects the re-inflation of both warm and hot Jupiters. Lastly, I will show how TESS observations of a large sample of re-inflated warm Jupiters will constrain the mechanism(s) causing the anomalous radii of gas giant planets.
The Office of Interdisciplinary Graduate Programs Presents the Spring Reception 2020

Wednesday, May 6, 2020
10 AM - 12 PM
North and South Ballrooms
at the Purdue Memorial Union

Open Poster Session
10:00 - 11:30
Award Presentation & Keynote Address
11:30 - 12:00

Submit an Application by Friday, February 28th to present a poster
Apply for the Most Outstanding Interdisciplinary Project Award - $1000 prize!
Find more information online!

Contact us at 765 - 496 -1635 or oigp@purdue.edu | purdue.edu/gradschool/oigp
Central Iowa National Weather Association
Scholarships Available

Worth $1500 each!

Application Deadline: Friday, February 21, 2020

Apply online at: www.iowa-nwa.com

Additional Information: Michael.Fowle@noaa.gov
OPEN METEOROLOGY GRADUATE POSITION, OHIO UNIVERSITY
FALL SEMESTER 2020

The Ohio University Department of Geography in Athens, Ohio, is seeking a master's level graduate student for the position of Associate Director of Scalia Laboratory. Scalia Laboratory is a student-run, public service, meteorology forecasting and research lab. The lab issues web-based forecasts (over 30,000 unique visits annually) and runs a 24-hour forecast hotline. The Associate Director should receive a nine-month stipend, which includes a tuition waiver.

Responsibilities of the position include:
1. Overseeing 3-4 undergraduate student forecasters, arranging forecasting schedules, performing quality control on forecasts, and ensuring forecasts are submitted on time.
2. Teaching two courses per semester as instructor of record: Meteorological Observations (GEOG 3030) and Practicum in Meteorological Forecasting (GEOG 3040). Both meet two hours a week, with approximately 10-15 students in each course.
3. Managing public relations between the lab and the user community, which entails answering questions about our forecasting products and observations and updating social media.

To apply, submit an application for the Graduate Program in the Geography Department at Ohio University, indicating an interest in the Associate Director position in your personal statement. There is no set minimum for the GRE, but an undergraduate GPA of 3.0 is required (3.5 or higher preferred). Review of applications begins February 15, 2020. With the unique setting in a Geography Department, several research specialties are available, including meteorology / climatology (specializations in Southern Hemisphere / Antarctic climate or mesoscale meteorology / tornadoes), human dimensions of climate change, environmental geography, GIS with environmental applications, and physical geography (geomorphology and biogeography). The position provides excellent management-level forecasting and teaching experience for those considering careers with the NWS or in academia. Women and minorities are especially encouraged to apply.

For further information, please visit the webpage of Scalia Laboratory (www.scalialab.com), the Department of Geography (www.ohio.edu/geography), the Graduate School (http://www.ohio.edu/graduate/apply), or by contacting Dr. Ryan Fogt (fogtr@ohio.edu). Those interested in applying should also contact Dr. Tim Anderson (anderst1@ohio.edu), chair of the Geography Department Graduate Committee.
2020 GRADUATE STUDENT AND POST-DOCTORAL FELLOWS RESEARCH AWARDS COMPETITION
February 12, 2020
6-9 PM
Stewart 214 A-D
Call for Abstracts / Posters

The Purdue University Chapter of Sigma Xi, the scientific research society, is conducting a Graduate Student and Post-Doctoral Fellow Research Awards Competition in the format of a scientific poster session. You and your advisor do not need to be Sigma Xi members to participate in this competition. Also, you do not need a brand new finding. You can use a recent poster presented at a scientific conference or meeting.

There will be a first prize of $200, provided by Sigma Xi, as well as recognition for other outstanding posters in each of the four research areas:

- Graduate Student, Physical Sciences
- Graduate Student, Life and Agricultural Sciences
- Graduate Student, Engineering
- Graduate Student, Behavioral and Social Sciences
- Post-doctoral, Behavioral Sciences
- Post-doctoral, Physical, Life and Engineering Sciences

There will be one prize for each approximately 15 posters in a research area. In recent years, this has resulted in 2-3 top awards in both Life Sciences and in Engineering. Post-doctoral Fellows also are eligible to participate. There will be one award for post-doctoral fellows across the two post-doc categories.

To participate:

1. Submit an abstract of your research by **11:59 PM, Tuesday February 04, 2020**. These will be published in a booklet. **Use the form at then end of this document.** Applications, in electronic format, should be submitted to hnzela@purdue.edu. At the end of this document you will find the abstract application and abstract template. Abstracts should be in MS-Word format, no more than 150 words (title and authors not counted in word count).

2. Present a poster at the 2020 SIGMA XI GRADUATE STUDENT AND POST-DOCTORAL RESEARCH AWARDS COMPETITION POSTER SESSION in Stewart Center, Rooms 214A, B, C, D on **Wednesday, February 12, 2020**. Posters will be setup between **2:30 - 4:30 pm.** Presentation and judging is from **6:00 - 9:00 pm.** Presenters are requested to put up their posters by 4:30 pm and to be at their posters from 6:00-8:30 pm to answer questions from the judges. You will provide a five (5) minute (No Longer!) presentation about your work to each judge. Practice your presentation, so that it is no longer than five minutes. At the end of this document a sample reviewer-judging sheet is shown to help you prepare a poster and three-minute presentation.

3. Posters selected for an award will be displayed at the Annual Sigma Xi Initiation Banquet to be held in the John Purdue Room in Marriott Hall in April (Date tbd).
In addition, all award winners and those recognized for Honorable Mention will be invited to attend the banquet in recognition of their outstanding research endeavors. You will also present your poster prior to dinner (more instructions later)
This is an excellent opportunity to learn about the excellence and diversity of scientific research at Purdue as well as to make others aware of your contributions. All graduate students and post-doctoral researchers with appropriate research experiences are urged to participate in this competition.

For additional information, please contact:
Howard N. Zelaznik, Chairperson
Sigma Xi Graduate Student and Post-Doctoral Research Awards Competition
Department of Health and Kinesiology
(765-494-5601 or hnzelas@purdue.edu)
Acknowledgement of Permission:

- Submit an abstract in **MS Word format** by 11:59 PM, Tuesday, **February 04, 2020**. These will be published in a booklet. Forms should be submitted electronically to hnzelaz@purdue.edu. Information about poster preparation is provided on a subsequent page. You will receive confirmation of abstract receipt.

- Present a poster at the 2020 SIGMA XI GRADUATE STUDENT and POST-DOCTORAL RESEARCH AWARDS COMPETITION POSTER SESSION in Stewart Center, Rooms 214 A-D on Wednesday February 12, 2020. Rooms will be open from 2:30-4:30 pm (for poster set up and viewing) and 6:00-9:00 pm (for presentation and judging). Presenters are requested to hang their posters by 4:30 pm and to be at their posters from 6:00-8:30 pm to answer questions from judges. We will provide the hardware to place your poster (including push pins).

- A panel of faculty will judge posters. It is likely that your judges (at least two per poster) will not be experts in your research area.

Posters selected for an award will be displayed at the Annual Sigma Xi Initiation Banquet to be held in the John Purdue Room in Marriott Hall in April 2020 (exact date to be announced later). In addition, all award winners and those highlighted for Honorable Mention will be invited to attend the banquet in recognition of their outstanding research endeavors.

By submitting this form electronically, I hereby give my unrestricted permission for the Purdue University Chapter of Sigma Xi to reproduce this professional abstract in the 2020 Graduate Student and Post-Doctoral Research Poster Award Competition abstract booklet. I also hereby certify and attest that I have approval from my Major Professor to submit this abstract, and I am the person specified in the abstract.

Please note that this abstract is not to be considered a published abstract that should be listed in your academic vita. You can list the poster presentation as an intramural presentation on your vita.

**Please submit this form and your abstract in MS Word (.doc or .docx) format via email to hnzelaz@purdue.edu on or before 11:59 PM, Tuesday, Feb 04, 2020.**

Please use the following template for your abstract (see Pages 6 and 7. DO NOT CHANGE FONT, MARGINS, ETC. ABSTRACTS WILL BE RETURNED IF YOU DO NOT MAINTAIN FORMAT … THANKS SO MUCH FOR YOUR UNDERSTANDING)

List all contributing authors and their affiliations; the title of your abstract, and the abstract (Note: the abstract itself **can be no more than 150 words**, this does not include title and authors)
Posters should be 56” wide by 36” high. Posters will be judged on the following criteria:

**Completeness:** All relevant information is contained in the poster (Background, purpose, methods, results, interpretations, and conclusions. No misspellings or grammatical errors.

**Clarity:** Poster is accessible to a person not expert on its content. There should be a minimum of jargon.

**Design:** Color and layout attract attention and guide the reader. Poster is legible (axes are readable) from at least 3 ft.

**Presentation:** Presenter(s) professional (both in speech and appearance) and demonstrate knowledge of the subject matter and can clearly and concisely answer all questions. Presenter kept to the expected five-minute time limit for the presentation.

**Promise:** The poster clearly explains the need for the research and makes apparent what the results of this research will contribute to the academic field.

Below is a sample review sheet used by the judges.
2020 Sigma Xi Poster Competition Example Judging Sheet

Judge: ____________________

LAS = Grad, Life and Agricultural Science  P = Grad, Physical Sciences  B = Grad, Beh & Soc Sci  E = Grad, Eng  PDB = Post-doc Behavioral and Social Sciences  PDPLE = Post-doc phys, life and engineering sciences

Excellent (16-20); Good (11-15); Fair (6-10); Poor (1-5) Each criterion graded out of 20.

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Poster#</th>
<th>Completeness</th>
<th>Clarity</th>
<th>Design</th>
<th>Presentation Includes duration</th>
<th>Promise</th>
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<tbody>
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<td>Example Name</td>
<td>LS3</td>
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Completeness: All relevant information is contained in the poster (Background, purpose, methods, results, interpretations, and conclusions. No misspellings or grammatical errors.

Clarity: Clarity of background, purpose, methods, results, interpretations, and conclusions. Poster is accessible to a person not expert on its content.

Design: Color and layout attract attention and guide the reader. Poster is legible from at least 3 ft.

Presentation: Presenter(s) professional (both in speech and appearance) and demonstrate knowledge of the subject matter and can clearly and concisely answer all questions.

Promise: The poster clearly explains the need for the research and makes apparent what the results of this research will contribute to the field.
## Abstract Submission Form

<table>
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<td>College or School</td>
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<td>Major Professor</td>
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<td>Abstract Title</td>
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**Area for poster to be judged**

- ☐ Grad, Physical Sciences
- ☐ Grad, Engineering
- ☐ Grad, Life and Ag Sciences
- ☐ Grad, Beh and Social
- ☐ Post-Doctoral Fellow, Beh & Social Sci
- ☐ Post-Doctoral Fellow, Phys, Life & Eng Sci

*go to next page for abstract form*
Title of Poster
Author Last Name, First Initial, etc
Department or Academic Unit
e-mail: yourcareeraccount@purdue.edu

Name of faculty sponsor

Abstract text
DEVELOPING EXCEPTIONAL MENTORS

The Elements of Mentoring

WITH BRAD JOHNSON

PROFESSOR OF PSYCHOLOGY AT THE US NAVAL ACADEMY, AUTHOR, & AWARD-WINNING MENTOR.

JANUARY 31ST • WALC 2088

SCHEDULE

9:00 A.M. - 10:00 A.M.
THE ELEMENTS OF EXCELLENT MENTORING
*(FOR GRAD STUDENTS)

10:00 A.M. - 11:00 A.M
KEYNOTE TALK ON EXCELLENT CROSS-GENDER ALLYSHIP & MENTORSHIP BASED ON BRAD JOHNSON’S BOOKS ATHENA RISING AND GOOD GUYS

11:30 A.M. - 12:30 P.M.
STRATEGIC SENIOR LEADERSHIP FORUM: DEVELOPING A MENTORING CULTURE
*(FOR GRADUATE LEADERSHIP ONLY. REGISTRATION LINK WILL BE SENT VIA EMAIL & LUNCH WILL BE PROVIDED)

2:00 P.M. - 4:00 P.M.
BECOMING A MASTER MENTOR
*(FOR FACULTY)

4:30 P.M. - 5:30 P.M.
MAKING THE MOST OF MENTORING
*(FOR GRAD STUDENTS)
EARTH SYSTEM OBSERVATIONS
AND MODELING
GRADUATE SYMPOSIUM

APRIL 22, 2020

GEORGE MASON UNIVERSITY ● FAIRFAX, VIRGINIA

CALL FOR ABSTRACTS

SUBMISSION DEADLINE: FEBRUARY 7, 2020

The Center for Ocean-Land-Atmosphere Studies (COLA) and the department of Atmospheric, Oceanic and Earth Sciences at George Mason University invite you to join us for the second annual Earth System Observations & Modeling Graduate Symposium. This symposium will bring together graduate students from across the United States to share research on the Earth system and its climate. A wide variety of topics will be considered for presentation, so all Earth system science graduate students are encouraged to apply. The Graduate Symposium provides an opportunity for masters and doctoral students to share their research results, network with their peers and meet scientists from Mason, nearby universities and federal labs in the Washington, DC area.

All Earth system graduate students are encouraged to apply!

TRAVEL AWARDS ARE AVAILABLE

Contact esomsym@gmu.edu or visit tinyurl.com/esom2020 for more information.

Hosted by the Center for Ocean, Land and Atmosphere Studies at George Mason University
2nd Annual Indiana Science Communication Day

March 2nd, 2020
Indiana Statehouse, Indianapolis

Join graduate students from across Indiana, as we meet with lawmakers at the Statehouse to discuss our research, and advocate for an Indiana Science Policy Fellowship.

Hosted by The Science Policy Initiative at Notre Dame

Scan the code for more info and sign ups
Or go to sites.nd.edu.spi-club
Travel assistance available
Applications due Jan 31st
CIMMS Peter Lamb Postdoctoral Fellowship

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma has established the Peter Lamb Postdoctoral Fellowship that we envision will be offered annually. CIMMS is a research organization that promotes collaborative research between National Oceanic and Atmospheric Administration (NOAA) and University of Oklahoma (OU) scientists on problems of mutual interest. This collaborative basic and applied research includes the study of mesoscale and storm-scale meteorological phenomena to help produce better forecasts and warnings that save lives and property and the investigation of the societal impacts of such phenomena. Research scientists within CIMMS use observations, analysis and models to improve the understanding and prediction of high-impact weather elements and systems ranging in size from cloud nuclei to multi-state areas.

Applications must include a 3-4 page novel proposal developed by the applicant that addresses at least one of the CIMMS research themes: 1) weather radar research and development; 2) storm-scale and mesoscale modeling research and development; 3) forecast improvements research and development; 4) impacts of climate change related to extreme weather events; and 5) societal and socioeconomic impacts of high-impact weather systems. Applicants are highly encouraged to contact a CIMMS scientist before writing their research proposal to receive guidance when drafting a proposal and to ensure the mentorship of an eligible CIMMS research scientist. The CIMMS website http://cimms.ou.edu/index.php/research has more information on projects underway within these research themes as well as contact information for CIMMS scientists working on these themes.

Terms of appointment are for one (1) year, renewable for a second year subject to satisfactory performance. An annual salary of $60,000 and a research budget of up to $5,000 per year is included in the award, along with a modest relocation stipend. Successful applicants must have obtained a Ph.D. within the last five years; proof of a Ph.D. is required before assuming the post-doctoral position, but those in the final stages of Ph.D. dissertation completion are encouraged to apply provided a finish date before July 31, 2020 is anticipated.

Applicants are asked to submit electronically: (1) a curriculum vitae; (2) a list of all products (e.g., papers, patents, technology transfers, licensed software, etc.) generated over the course of their career; (3) a cover letter which includes the expected start date and any non-standard resources that might be needed to complete the proposed work; (4) a brief proposal (no more than 4 pages, double-spaced, excluding the list of references and figures) describing the work to be pursued during a 2-year tenure at CIMMS; and (5) a list of three references. In addition, applicants should request that their referees directly send their reference letters to CIMMS at the email address listed below.

To receive full consideration, applications and supporting material should be received prior to January 31, 2020. All materials should be sent electronically to:

Cooperative Institute for Mesoscale Meteorological Studies (CIMMS)
The University of Oklahoma
120 David L. Boren Blvd, Norman, OK, 73072
CIMMS-careers@ou.edu
ATTN: Peter Lamb Postdoctoral Fellowship
**Program Highlights**

- Cooking classes with a French Chef
- Pair wine and cheese
- Learn a little French
- Explore Lyon and Roanne
- Visit a chocolate factory
- Meet wine experts
- Stay in a French villa
- Taste wine with a local winemaker
- Visit a medieval village
- Earn 2 credits
- Meets STS learning outcome

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**French, Food & Health**

May 23-31, 2020
Roanne, France

NUTR 39800

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For more information, contact:
Rachel Clark
rachelclark@purdue.edu
Applications are now being accepted for NOAA’s Okeanos Explorer–in–Training Program

NOAA Office of Ocean Exploration and Research (OER) in partnership with Cooperative Programs for the Advancement of Earth System Science (CPAESS), hosts undergraduate and graduate students as well as individuals who have recently graduated from a higher education program in the Okeanos Explorer–in–Training program. Participants gain valuable experience in deepwater mapping and exploration using the latest tools and technology.

NOAA’s OER is the only federal program dedicated to exploring our deep ocean, closing the prominent gap in our basic understanding of U.S. deep waters and seafloor and delivering the ocean information needed to strengthen the economy, health, and security of our nation. OER explores previously unknown areas of our deep ocean, making discoveries of scientific, economic, and cultural value.

The NOAA Ship Okeanos Explorer is the Nation’s only federal vessel dedicated to ocean exploration. The ship is equipped with advanced tools that support systematic exploration of unknown ocean regions. High-resolution sonars, deep-water remotely operated vehicles, and telepresence technology are used to collect baseline information in unexplored areas.

CPAESS is currently seeking Mapping trainees to participate in the Okeanos Explorer Explorer–in–Training (EiT) program for the 2020 field season. The EiT program will provide the opportunity to gain experience using an advanced multibeam bathymetric sonar mapping system, while contributing in a significant way to the Okeanos Explorer.

Okeanos Explorer exploration for 2020 will focus on the Atlantic Ocean, including the US Exclusive Economic Zone near Puerto Rico, the US Virgin Islands, and New England; the Mid Atlantic Ridge, and Atlantic Maritime Canada. Current undergraduate and graduate students, and recent graduates from higher education institutions in these regions are encouraged to apply. Students traditionally underrepresented in the sciences are also encouraged to apply.
Application Deadline

Ocean Exploration
There are five 20-30 day cruises in April through September. The time at sea for this session begins April 5, 2020 and runs through September 12, 2020.

Curious?
Check out the live feed webcam and learn more about the work of Okeanos at: oceanexplorer.noaa.gov/welcome.html

Discover & Explore
Learn more about the NOAA Okeanos Explorer-In-Training program at:

oceanexplorer.noaa.gov/okeanos/training.html

Undergraduate, Graduate, and Recently Graduated Students may apply at:

cpaess.ucar.edu/okeanos-application-2020

A steeply sloped ridge along the Nova-Canton Trough mapped during the CAPSTONE Telepresence Mapping in Pacific Marine Protected Areas expedition. Onboard were Explorers-in-Training Sarah Rosenthal and Jay Chitnis. Image courtesy of the NOAA Office of Ocean Exploration and Research.
Graduate Research Assistantship Opportunity at the University of North Dakota

The Kennedy research group at UND has a M.S. Graduate Research Assistantship (GRA) position open for the 2020-2021 academic year. This position will focus on remote sensing of blowing snow at Atmospheric Radiation Measurement (ARM) climate research facilities. Activities will include the analysis and detection of the process using lidars, cloud radars, and ancillary instruments. These observations will be placed into context of meso- and synoptic scale meteorological fields. In addition to these duties, students within the research group are expected to assist with local winter weather fieldwork and outreach activities. This position includes a tuition waiver for 30 credit hours, equivalent to the requirements for a M.S. degree.

Ideal candidates have experience in programming (e.g. Python), communication skills, and possess (or are willing to gain) a tolerance of cold weather. Above all else, candidates should have an inquisitive mind and a passion for the field of atmospheric sciences. Interested individuals should contact Aaron Kennedy (aaron.kennedy@und.edu / 701-777-5269) and are encouraged to stop by the UND booth at the AMS career fair at the annual meeting!

Admissions at UND

Admission packets are due by February 15th 2020 for the fall semester. Admission requirements include:

1. A four-year bachelor’s degree from a recognized college or university. For U.S. degrees, accreditation must be by one of the six regional accrediting associations.
2. Completion of a minimum of 20 semester credits of appropriate undergraduate work, e.g., physics, mathematics, chemistry, engineering, and/or atmospheric science.
3. A cumulative GPA of at least 2.75 for all undergraduate work or a GPA of at least 3.00 for the last two years.
4. Scores on the general portion of the Graduate Record Examination (GRE).* This requirement is no longer required for domestic candidates.
5. Satisfy the School of Graduate Studies’ English Language Proficiency requirements as listed in the graduate catalog.

For more information on the admissions process, please visit: https://und.edu/programs/atmospheric-sciences-ms/
CIMMS Research Associate – Small Unmanned Aircraft Systems

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks a research associate to assist in a new project that aims to transition small Unmanned Aircraft Systems (sUAS) into operations within NOAA. This position will be located at the NOAA/Air Resources Laboratory (ARL) Atmospheric Turbulence and Diffusion Division (ATDD) in Oak Ridge, TN. The associate will play a vital role in operating the sUAS, as well as acquiring and processing the data collected by the sUAS. The most critical task will be performing daily flights at a nearby site using ATDD’s vertical takeoff and landing (VTOL) and fixed-wing sUAS to sample boundary layer temperature, moisture, and wind fields. These datasets will be provided to the nearest National Weather Service office to assist with short-term weather forecasts. Additionally, the associate will operate ATDD’s other fixed-wing sUAS used for obtaining in-situ meteorological and flux measurements, as well as spectral characteristics of the land surface. Following data collection, the research associate will lead efforts to process the data for further analysis. This work will provide opportunities for the associate to author research papers.

**Job Responsibilities:**
1) Operate the sUAS on a daily basis at weather-dependent times.
2) Download and process data collected for expedited transmission to the local National Weather Service forecast office.
3) Participate in further analysis of the data, and preparation of scientific research papers.

**Job Requirements:**
1) United States citizen or permanent resident;
2) An M.S. degree in aerospace engineering, meteorology, computer science, or a closely-related field, or a B.S. degree with at least three years of experience;
3) At least three years of experience with piloting sUAS and flight planning is desirable;
4) Expertise in one or more programming languages (IDL, C, Python, FORTRAN, etc.) is also desired;
5) CIMMS seeks candidates that are creative, have an ability to work independently, and have good communication skills;
6) The ability to travel to field study sites will also be required.

The salary will be based on qualifications and experience with benefits provided through the University of Oklahoma (https://hr.ou.edu/).

To apply for the position, please send your CV, cover letter, and list of three references to:

**CIMMS Careers**
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
CIMMS-careers@ou.edu
Job Requisition: Unmanned Aircraft

*The University of Oklahoma is an equal opportunity/Affirmative Action employer.*
UNDERGRADUATE RESEARCH PITCH COMPETITION
THREE MINUTES... TO PITCH... ONE PROJECT
March 10 | 7-9pm | RAWL 1086
Awards Available

PURDUE UNDERGRADUATE RESEARCH CONFERENCE
A TRADITIONAL APPROACH TO PRESENTING RESEARCH PROJECTS AND DISCOVERIES
Poster Symposium | April 14 | 8:30am-4pm | PMU Ballrooms
Oral Presentations | April 15 | 8:30am-4pm | STEW 214
Awards Available

CELEBRATE PURDUE’S THINKERS, CREATORS, & EXPERIMENTERS
SHOWCASE YOUR RESEARCH TO INVOLVE THE SENSES—ENGAGE THE AUDIENCE IN YOUR WORK
April 16 | 1:30-3:30pm | Co-Rec

purdue.edu/undergrad-research

CHECK OUT OUR SPRING SEMINAR SERIES
Butler Center-ADVANCE Working Paper Series
Navigating Careers in the Academy: Gender, Race and Class

The Butler Center in partnership with ADVANCE -Center for Faculty Success has a Working Paper Series focusing on navigating careers in the academy. This peer reviewed series includes work by senior scholars, graduate students, and faculty at all stages as a space for the discussion of issues related to academic careers. The series will serve as a means for documenting and sharing interventions and/or practices and/or processes developed by and/or utilized by faculty and post-docs for navigating careers.

The topics may include: strategies for diversifying faculty, staff and students; negotiating intersections of gender, race/ethnicity, and nationality in the academy; creating inclusive research environments; mechanisms for involving graduate and undergraduate students in research; traversing teaching/the classroom; considering inclusivity in mentoring faculty/students; lessons to be learned from experiences of faculty in the academy; gender biases – in the classroom, P&T evaluations, leadership; best practices around creating an inclusive climate; effective programs/interventions; intersectionality; role of professional societies in achieving success and excellence. This list is indicative of topics of interest but is by no means exhaustive. We encourage manuscripts that bridge the gap between research, policy, and practice. The following types of submissions will be considered for this working paper series: reflection papers; summaries of research; write-ups of speakers or meetings; white papers; preliminary findings; conceptual pieces; creative works; best practices.

The working papers may be anywhere between 2 pages (such as best practices) to 20 pages in length. The papers will be peer-reviewed. The authors will retain the copyright to their papers, allowing them to republish their work elsewhere.
CALL FOR ABSTRACTS FOR THE FALL 2020 ISSUE IS NOW OPEN
DEADLINE: Friday, August 21, 2020

Abstracts for the fall 2020 issue of the Butler Center-ADVANCE Working Paper Series’ titled “Navigating Careers in the Academy: Gender, Race, and Class” are now being accepted. The deadline for submission of abstracts is Friday, August 21, 2020.

We invite submissions that fall under the broad topic of academic careers (as noted below, please see our website for details). Abstracts must have specific aims or questions proposed to be addressed; clear argument/s; and make contribution/s that will benefit those in the academy. Abstracts should include the form/s of evidence that will be used – forms of data, cases, reflection based on experiences and so on.

Abstracts must be 150 words or less and should be emailed to butler-advance@purdue.edu. Please include the following information in your submission:
  - Title of the paper (tentative is acceptable)
  - Name of authors, rank or title, and name of department (in order of authorship)
  - Email of corresponding author

Abstracts will be reviewed by the co-editors and the editorial board. If the abstract suggests that the paper is suitable for the Working Paper Series, the author/s will be required to submit the full-length paper within about six weeks. If the author/s require additional time for submission of the full-length paper, they may request for considering their submission for the following issue (Spring 2021). The co-editors’ decision to accept and publish the paper will be made based on peer reviews.

Past issues and more information about manuscript submission is available online at www.purdue.edu/butler/working/index.html or by emailing butler-advance@purdue.edu.
Welcome to the annual Engagement and Service-Learning Summit, Thursday, February 27, 2020, 1:00 – 5:00 PM hosted by the Office of Engagement. This event serves to bring together faculty, staff, students, and community partners to discuss best practices in engagement and service-learning, highlight accomplishments, and increase collaboration opportunities. This year, the event will feature two interactive tracks: a beginning track on networking and partnership formation, and an advanced track on developing engaged scholarship. A showcase of student posters and community projects in conjunction with networking and hors d’oeuvres will close the event.

**Agenda**

1:00 PM   Welcome & Framing of the Summit (PMU, East/West Faculty Lounge)

1:30 PM   Tracks 1 & 2 Begin

**Track 1: Networking and Partnerships (PMU, East/West Faculty Lounge)**

*Participate in this highly interactive session on community-based project and partnership formation. In the style of speed dating, participants will explore partnership roles and expectations and dialogue about best practices. Participants will also develop an aspirational framework for a future project or partnership. Appropriate for those new to service-learning and engagement and/or exploring new partnerships.*

**Track 2: Scholarship of Engagement (PMU, 2nd floor meeting rooms)**

*Take your current community-based research, teaching, or industry partnership and turn it into engaged scholarship. Hear examples from engaged scholars and build your capacity to produce engaged scholarship in one of two focused workshops: Engagement and Research/Discovery or Engagement and Teaching & Learning*

**Engagement and Research/Discovery Facilitators:**

- **Patricia Morita-Mullaney**, Ph.D., Assistant Professor, Literacy & Language | **Marifran Mattson**, Ph.D., Professor, Communication | **Rod Williams**, Ph.D., Associate Professor, Forestry and Natural Resources

**Engagement and Teaching & Learning Facilitators:**

- **Monica Miller**, PharmD, Clinical Associate Professor, Pharmacy Practice | **Mary Jane Eisenhower**, Ed.D., Professor, Purdue Northwest, Early Childhood Education | **Jennifer Bay**, Ph.D., Associate Professor, English | **Sherrie Steiner**, Ph.D., Assistant Professor, Purdue Ft. Wayne, Sociology | **Lata Krishnan**, Ph.D., Clinical Professor, Speech, Language, & Hearing Sciences | **Donald Mueller**, Ph.D., Associate Professor, Purdue Ft. Wayne, Mechanical Engineering

2:15 PM   Break

2:30 PM   Track 1 continues (PMU, East/West Faculty Lounge)

Track 2 workshops begin (PMU, 2nd floor meeting rooms)

3:30 PM   Closing Thoughts (PMU, East/West Faculty Lounge)

Steve Abel, Associate Provost for Engagement

3:45 PM   Showcase with Networking & Hors d’oeuvres (PMU, East/West Faculty Lounge)

5:00 PM   End of Event