Meetings/Events & Dept. News .................................................1
Undergrad/Graduate Student News .......................................2
University News .....................................................................9

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

PHD DEFENSE

Zachary Meyers
June 3, 2020
2:00pm

Developing Criteria to Assess the Resilience and Hydrologic Stability of Desert Springs in the Face of a Changing Climate

EAPS NEW PUBLICATIONS


http://www.eaps.purdue.edu/
WINDOW REPLACEMENT ANNOUNCEMENT

COVID-19 has stopped and changed a lot of things, but replacement windows in the EAPS Building is NOT one of them!

Starting this week windows will be replaced which will require all personal belongings and all furniture to be cleared within a 3 feet radius from the windows. Also, please leave a path to the window.

Kathy will try and send out an email with a week’s notice for those whose office will need to be checked. If you require help with moving of heavy furniture, please let Kathy Huseman (khuseman@purdue.edu) know and she will see about having help lined up.

Thank you for your attention and assistance with this matter.

OUTSTANDING WOMAN IN SCIENCE AWARD

Congratulations to Professor Marissa Tremblay on being named the 2020 recipient of the Doris M. Curtiss Outstanding Woman in Science Award.

The Outstanding Woman in Science Award was created to recognize women who have impacted the field of geosciences in a major way based on their Ph.D. research.

In addition to her other accomplishments, she was selected based on her commitment to integrity and promise to adhere to the ethical standards in GSA’s Code of Ethics & Professional Conduct.

OUTREACH NEWS

If you know an educator, let them know we have made and have been updating the College of Science’s e-learning page. We have created worksheets to go along with many of our Superheroes of Science podcasts, put together a list of online resources (arranged by content), created Virtual Tours, and posted videos of various content demos. These resources are being updated regularly! http://bit.ly/PUelearning

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

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

STUDENT NEWS

This position is located in the National Weather Service (NWS), National Centers for Environmental Prediction (NCEP), Weather Prediction Center (WPC), Forecast Operations Branch with one vacancy in College Park, MD.

As a Student Intern (Meteorology), you will perform the following duties:

You will receive on-the-job and formal training to provide you with experience in the operation of the Weather Prediction Center (WPC).

You will become familiar with National Weather Service programs, policies, and procedures; and you will have an opportunity to perform progressively more responsible assignments as experience is gained.

You will also receive instructions and gain practical experience in interpreting radar echoes and satellite imagery in terms of associated meteorological conditions. You will have the opportunity to participate in scientific research and develop procedures to transfer research to operations.

Under the supervision of higher-grade meteorologists, you will prepare the WPC surface analyses and storm summaries as needed.

http://www.eaps.purdue.edu/
The incumbent may work full time during school breaks and full- or part-time during the school year.
For complete information go to: https://www.usajobs.gov/GetJob/ViewDetails/567502700

---

**GEOLOGIST POSITION**

This positions is located in USDA’s Natural Resources Conservation Service, North East Region, Amherst, Massachusetts, and Binghamton, New York. The Geologist is responsible for providing the full range of geological services to assigned geographic area as assigned by the Geological Services Unit.

**Responsibilities**

Responsible for conducting geologic analysis.
Applies geologic evaluation in geologic for a variety of practices.
Prepares geologic analysis services for land use categories.
Conduct, plan and modifies geologic investigations.
Conduct sedimentation studies.
Prepares written reports.

For additional information go to: https://www.usajobs.gov/GetJob/ViewDetails/566973500

---

**DOHERTY VISITING PROFESSOR**

The faculty of the Department of Ocean Engineering and Marine Sciences (OEMS) in Florida Tech’s College of Engineering and Science invite applications for the 2020–2021 academic-year Doherty Visiting Professorship. The endowment to OEMS from the Henry L. and Grace Doherty Charitable Foundation, Inc. provides $30,000–$40,000 for a part-time appointment (depending on the experience of the successful applicant, benefits desired, and market conditions) and is ideally suited as matching funds for a sabbatical.

Our focus is to integrate science, engineering, and management in the marine environment. OEMS offers undergraduate and graduate degrees in oceanography, meteorology, coastal zone management, ocean engineering including naval architecture, environmental science, environmental resource management, Earth remote sensing, marine biology and ecology, sustainability, and conservation biology. We are seeking an established professional from academia, government, or industry with an advanced degree in science, engineering, or management and a clear vision for her/his time at the University.

Applicants should send a statement of interest not exceeding two pages in length, a two-page curriculum vitae, and a cover letter including contact information for three references to Dr. Steven M. Lazarus, Professor and Program Chair, Department of Ocean Engineering and Marine Sciences, Florida Institute of Technology at slazarus@fit.edu.

---

**CLIMATE AND EXTREME WEATHER OPPORTUNITIES**

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

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

Start date for the position is flexible, with a start anywhere between Fall 2020 and 2021. Ideally, the applicants would have an M.S. in meteorology, atmospheric sciences, environmental data science or climate science.
but I would also consider exceptional bachelors level applicants.

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

WELL-BEING RESOURCES FOR GRAD STUDENTS AND POSTDOCS

Many of us are stressed out by all that is going on, which is understandable. Attached is an interactive pdf with resources for supporting grad student and postdoc wellbeing. Thanks to @AirealeJoi, @LaurenIrwin22, and @RomanLiera for their work creating this resource. pullias.usc.edu/wp-content/uploads...

[Please see attached flier for complete information]

CIMMS POST-DOCTORAL RESEARCH ASSOCIATE – VORTEX-SE

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 coordination of VORTEX-SE, a Congressionally mandated program of research intended to reduce the impact of tornadoes in the Southeast U.S. The list below describes potential projects:

1. Produce mission and case descriptions of VORTEX-SE data sets to enable more effective community research;
2. Participate in monitoring VORTEX-SE research and summarize findings in the Community Forum;
3. Participate in the planning and coordination of observing campaigns;
4. Interact with the operational community to assess information and knowledge needs, and transfer new information and knowledge;
5. Conduct research to fill gaps not being addressed through VORTEX-SE grant solicitations.

The minimum qualifications for the position are:

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

When applying, please indicate your experience in Southeast U.S. tornadic storms studies. Also describe your past and ongoing interactions with the operational meteorology community in the Southeast U.S.

[For complete information, please see attached flier]

CIMMS POST-DOCTORAL RESEARCH ASSOCIATE - APPLICATIONS OF UNPILOTED AERIAL SYSTEMS (UAS) IN CHARACTERIZING HIGH WIND DAMAGE

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) working collaboratively with NOAA’s National Severe Storms Laboratory (NSSL), is currently looking for a highly-qualified Post-Doctoral Research Associate to provide scientific and technological expertise in the use of Unpiloted Aerial Systems (UAS) to characterize high wind damage from convective storms. The Post-Doc will provide leadership in the procurement, development, and application of UAS for use in research applications at CIMMS/NSSL, primarily for the use of performing damage surveys to better understand severe convective storms, but collaboration with National Weather Service Forecast Offices and local emergency management for use in operations is
encouraged. The position will require close collaboration with the NOAA UAS program office to ensure all FAA and other agency requirements are being followed. Furthermore, the position will require working with agricultural extension agents, and local and state forest services as appropriate. This position will include participation in the field for upcoming research projects and will require the Post-Doc to integrate UAS, and remote-sensing capabilities derived from visible and multi-spectral imagery for surveying damage, into these field programs. The incumbent will work directly with research scientists at NSSL and will be encouraged to collaborate actively with scientists from other institutions with expertise in UAS (e.g. the OU Center for Autonomous Sensing and Sampling). The position will be based at NSSL in Norman, OK within the National Weather Center (NWC), a highly collaborative forecasting.

[See attached flier for additional information]

---

**CIMMS RESEARCH FELLOW – WEATHER AND TRANSPORTATION APPLICATIONS**

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma and the National Severe Storms Laboratory (NSSL) is currently seeking a fixed-term (12-24 months) Research Fellow starting in Summer 2020 to assist with the development of impacts-based decision support tools as a part of the Transportation Applications Team. This team works collaboratively with the National Weather Service (NWS) and the Federal Aviation Administration (FAA) to develop the next generation of products and tools for use within operations, with particular focus on decision support for transportation-related warnings/advisories (e.g., blizzards, aircraft hail encounters, icing, etc.).

The duties of this position will be to: 1. Work collaboratively with the NWS and FAA to develop decision-support tools for use in operations; 2. Assist with quality control and evaluation of observations within the Multi-Radar/Multi-Sensor (MRMS) system (http://mrms.nssl.noaa.gov). The minimum qualifications for the position are:

1. A Bachelor’s Degree in Meteorology, Geography, Civil Engineering, or another related area;
2. Experience in programming (C++, Python, Fortran);
3. Experience with visualization of meteorological datasets.

Please identify experience with programming and meteorological datasets in your cover letter.

Supervision will be provided by CIMMS staff. The incumbent is not expected to supervise other employees. Salary for this position is $40,000. Standard insurance benefits are included (more information may be found at [http://www.hr.ou.edu](http://www.hr.ou.edu)). The incumbent would ideally start in Summer 2020, but the starting date is negotiable.

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

CIMMS Careers
University of Oklahoma

120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
CIMMS-careers@ou.edu
ATTN: Transportation Applications

[See attached flier]

---

**RESEARCH ASSOCIATE – HAZARDOUS WEATHER TESTBED**

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma currently is seeking a research associate to collaborate with scientists in the National Severe Storms Laboratory’s (NSSL) Warning Research & Development Division on the implementation of severe weather applications to support research to operations initiative via transition into the National Weather Service’s Advanced Weather Interactive Processing System- 2nd generation (AWIPS2) operational software platform. The position is located in Norman, Oklahoma.
The duties of this position are:
1. Integration of NSSL's experimental datasets into AWIPS2;
2. Development of new applications and visualization techniques in the AWIPS2 environment and platform;
3. Support and participate in applied research and development and operational experiments in the Hazardous Weather Testbed;
4. Acquire and apply expertise about severe local storms in the warning decision-making process.

[For complete information please see flier]

---

CIMMS RESEARCH ASSOCIATE – SCIENTIFIC PROGRAMMER FOR DEVELOPING GRAPHICAL FORECAST EDITOR TRAINING IN AWIPS

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma (OU) seeks to fill a Research Associate position to support the National Oceanic and Atmospheric Administration (NOAA) Forecast Decision Training Division (FDTD) in Boulder, Colorado, on training for the Advanced Weather Interactive Processing System (AWIPS) Graphical Forecast Editor (GFE).

The principal duties of this position are:
● Development of training and online reference material for new and existing AWIPS GFE Focal Points at NWS Weather Forecast Offices and National Centers
● Analysis of current and future versions of the GFE software, including local settings and implementation at various NWS weather forecast offices, in order to identify operational best practices.

[See flier for additional information]

---

FED PBL MODELER AT NSSL

NSSL is hiring a Federal scientists with expertise in PBL parameterization on aspects associated with convective scale prediction. If interested, please see:

[TENURE TRACK OPPORTUNITY UNIVERSITY AT ALBANY-SUNY]

The Atmospheric Sciences Research Center (ASRC) of the University at Albany, State University of New York, invites applicants seeks to hire a tenure-track Professor of Empire Innovation (rank open), effective Fall 2020. This New York State supported college-year appointment allows for supplementary summer salary from external research funding. We currently seek to fill this position, with an emphasis on the area of High-Resolution Atmospheric Modeling. The ideal candidate will have expertise in meteorological as well as air quality and photochemical modeling, be interested in urban environments and land-sea interaction, be fluent in modern computational methods including data assimilation approaches, and have a firm understanding boundary-layer meteorology. ASRC has a tradition innovation in research, joy in discovery, and enthusiasm for working with colleagues in different disciplines. ASRC also values collaboration with researchers from diverse backgrounds who bring fresh perspectives. The successful candidate will be expected to pursue and secure funding to support a robust research program, publish in relevant academic fields, and lead efforts that support the planned continuing investment in this area of SUNY strength and focus. Priority will be given to candidates willing to engage in cross-disciplinary collaboration, especially with the University's Public Health program in environmental epidemiology and community health management (e.g., modeling of particulate matter and reactive gases). Outstanding candidates from other areas of

http://www.eaps.purdue.edu/
Atmospheric Science will also be considered and are encouraged to apply. Follow link for additional information: https://www.albany.edu/asrc/job_opportunities.php

OPENING FOR A NUMERICAL WEATHER PREDICTION (NWP)


MOBILE IOS APPLICATION DEVELOPER POSITION


METEOROLOGICAL DATA SCIENTIST POSITION

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

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](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 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](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

---

**FRENCH CULTURE, FOOD, & HEALTH**

May 23-31, 2020  
Roanne, France  
NUTR 39800

[See attached flier for additional 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.


---

**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](mailto: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]
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