EAPS WEEKLY NEWSLETTER
3 December 2018

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

DEPARTMENT NEWS

EAPS COLLOQUIA

Sean Gulick
University of Texas, Austin
Thursday, December 6, 2018
3:30 p.m.
HAMP 1252

EAPS HOLIDAY CELEBRATION

Remember the EAPS Holiday Celebration on Friday, December 7 from 12:00 – 1:30 PM in HAMP 2201. Main dish provided, please bring a side or dessert to share.

EAPS MEETINGS & EVENTS

EAPS HOLIDAY OFFICE PARTY
December 7, 2018
12:00 – 1:30 PM
HAM 2201

EAPS SPRING FACULTY MEETINGS
Tuesday, February 12, 2019
3:00 PM
HAMP 3201
Tuesday, March 19, 2019
3:00 PM
HAMP 3201
Tuesday, April 16, 2019
3:00 PM
HAMP 3201

AGU FALL MEETING RECEPTION
December 13, 2018
7:00 P.M. – 9:30 P.M.
Matchbox Vintage Pizza Bistro
Washington, D.C.

CoS STAFF MEETING
December 17
3:00-4:30 PM
WTHR 200

EAPS MAIN OFFICE
*HOLIDAY CLOSING*
Dec. 24-31, 2018
Jan. 1, 2019

http://www.eaps.purdue.edu/
LEADERSHIP IN GLOBALIZATION AWARDS

The University’s Office of Corporate and Global Partnerships (OCGP) and the Global Academic Committee (GAC) are soliciting nominations for Outstanding Leadership in Globalization. One faculty member and one staff member will be recognized in 2019. Each will receive a cash award.

Nomination information can be accessed using the following links. Self-nominations are allowed.

Instructions for Faculty:

Instructions for Staff:

All nominations must be routed to OCGP through the College of Science by their deadline of 2/15. Therefore, please send your nomination materials electronically to Robin Sipes (rsipes@purdue.edu) by 5:00 PM on Wednesday, February 13, 2019.

Questions regarding the nomination process can be directed to Professor Elizabeth J. Taparowsky: taparows@purdue.edu

INSTRUCTOR/LECTURER/TEACHING ASSISTANT PROFESSOR AT UNIVERSITY OF ILLINOIS

The Department of Atmospheric Sciences at the University of Illinois at Urbana-Champaign invites applications for a mission-critical undergraduate teaching and academic advising position in our undergraduate program. This is a 9 month (paid over 12), full-time academic appointment (non-tenure track) at the rank of Instructor, Lecturer, or Teaching Assistant Professor (title commensurate with experience and qualifications), but with opportunities for summer salary through online course instruction.

Closing date: 1/4/19

[For complete details see attached flyer.]

TENURE-TRACK FACULTY POSITION IN ATMOSPHERIC REMOTE SENSING

The Department of Atmospheric and Oceanic Sciences at McGill University is seeking outstanding applicants for a tenure-track Assistant Professor position in remote sensing of the atmosphere, the ice or the ocean surface to strengthen its leadership in remote sensing and earth system science. The successful applicant will be expected to develop an active research program, supervise graduate students, and teach a variety of undergraduate and graduate courses in the Department of Atmospheric and Oceanic Sciences and in the Earth System Science program. A relevant doctoral degree in physical sciences or engineering is required.

The preferred starting date for this position is August 1, 2019. Review of the applications will begin on January 21, 2019, and continue until the position is filled.

[For complete details see attached flyer.]

LIVING WITH LOSS

With the holiday season coming, grieving your losses can be additionally challenging. Come join us for an information session to learn about grief responses and coping strategies.

Wednesday, December 5th
7:00 to 8:00pm
BRNG 3119

No Sharing Required
Open to All
Hosted by Dr. Heather Servaty-Seib and the Grief and Loss Team.

[See attached flyer for complete information]
AGI HARRIET EVELYN WALLACE SCHOLARSHIP

AGI is seeking women pursuing thesis-based Master’s and Doctoral degrees in the geosciences for the 7th Harriet Evelyn Wallace Scholarship. Applications are being accepted now for the 2019-2020 academic year. Successful applicants will be full-time students and must be U.S. citizens or permanent residents.

To find out more information about application credentials and procedures please visit: www.americangeosciences.org/scholarships

Application deadline is January 4, 2019

[For additional information please see attached flyer]

CIMMS RESEARCH ASSOCIATE – SCIENTIFIC PROGRAMMER FOR DEVELOPING & INTEGRATING WARN-ON-FORECAST GUIDANCE INTO AWIPS 2

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) National Severe Storms Laboratory’s (NSSL) Warn-on-Forecast (WoF) research and development effort. NOAA’s WoF program seeks to develop a storm-scale ensemble prediction system to provide short-term, probabilistic guidance of high-impact weather.

The incumbent will work within the NOAA Earth System Research Laboratory (ESRL) Global Systems Division (GSD) in Boulder, CO as part of the Hazard Information Services project within the Weather Information Systems Evolution group. Hazard Services is a multi-year effort, and one foundational aspect of the project is to combine the existing capabilities of AWIPS WarnGen, Graphical Hazard Generator, and RiverPro into a single application. Currently, these critical applications allow National Weather Service (NWS) forecasters to produce hazard watch, warning, and advisory products and deliver various hazard-related services. Other development areas for Hazard Services include probabilistic hazard information, NWS National Center applications, and potential applications for international agencies. Hazard Services will be the primary software for operationalizing many concepts related to FACETs (Forecasting a Continuum of Environmental Threats) in the NWS.

[See attached flyer for complete information]

LECTURER – UNIVERSITY OF GEORGIA

The University of Georgia, Geography Dept., is advertising for a full-time non-tenure-track lecturer who would teach synoptic, mesoscale, weather forecasting seminars, and physical geography, with a PhD who is interested in, and excels, at teaching weather-related subjects. The salary is circa $60K/9-month appointment. A diverse applicant pool is highly desireable.

Job ad link is here: https://www.ugajobsearch.com/postings/35012?fbclid=IwAR0WH1FI75dLzYy-jPJPZuhoJcP1fF3uq9gYjqL-1f5gJiXCQjtkHsjqM4

RESEARCH ASSOCIATE – ARM DATA QUALITY OFFICE

The Cooperative Institute for Mesoscale Meteorological Studies at the University of Oklahoma is seeking a Research Associate with excellent attention to detail and strong programming skills to join the U.S. Department of Energy’s (DOE) Atmospheric Radiation Measurement (ARM) Program Data Quality (DQ) Office located in the National Weather Center at the University of Oklahoma in Norman, Oklahoma. The DQ Office Supports the ARM Program by serving as the first line of defense in discovering data quality issues with the final goal of providing the science community with the highest quality data possible. The primary responsibilities of the DQ Office are, in close cooperation with ARM instrument mentors, site operators, and other members of the ARM infrastructure, to create automated processes for inspection and assessment of data quality, inspect and assess the data, report detected problems and participate in their resolution, and communicate data quality findings to end-users of ARM data.

[For complete information please see attached flyer]
The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) seeks to fill a Post-Doctoral Research Associate position for its collaborative research with the National Oceanic and Atmospheric Administration (NOAA) National Severe Storms Laboratory (NSSL) at the National Weather Center (NWC) in Norman, Oklahoma. The Post-Doc will contribute to applications of NSSL’s Warn-on-Forecast (WoF) research and development program in predicting tornadoes and other hazardous weather associated with landfalling hurricanes. The incumbent will work in close collaboration with the researchers at NOAA’s Atlantic Oceanographic and Meteorological Laboratory (AOML) Hurricane Research Division (HRD) in Miami, Florida. The dynamic research and operational working environment at the NWC and HRD will provide the candidate with ample opportunities for career advancement.

[See attached flyer for complete information]

FREE O’REILLY & SPRINGER PUBLISHER BOOKS FOR PURDUE STUDENTS

You can access O’Reilly and Springer books on a wide variety of topics for free. Do so by visiting their respective publisher portals (PU login required):

O’Reilly: https://proquestcombo-safaribooksonline-com.ezproxy.lib.purdue.edu/

Springer (many books available as downloadable PDFs): https://link-springer-com.ezproxy.lib.purdue.edu/

ILS 695 DATA SHARING AND PUBLICATION

- Wrapping up your PhD dissertation?
- Ready to share your data with your research group?
- Excited to publish your data sets along with your thesis?

A new course available to our Graduate Students that will walk students through the process of preparing a data set for sharing with both internal and external audiences, in conjunction with their thesis deposit.

- Work closely with your supervisor to determine an authoritative data set
- Create data documentation
- Apply metadata
- Choose a data sharing platform as appropriate for your project

3 Credit
Spring 2019
Monday
8:30-9:20 (Lecture)
9:30-11:20 (Lab)
WALC 3049 & 3045

Questions? Contact Megan Sapp Nelson: msn@purdue.edu or Nichole Kong: kongn@purdue.edu

2019 SUMMER ASSOCIATE PROGRAM

Institute for Defense Analyses (IDA) in Alexandria, VA has a great student internship program for undergraduate and graduate students. IDA is currently looking for applicants for the 2019 Summer Program with potential opportunities in meteorology/atmospheric science.

Applications are due by January 5, 2019.

Click the link below to see the details of the position:
https://chk.tbe.taleo.net/dispatcher/servlet/DispatcherServlet?org=INSTITUTEDA&act=redirectCws&cws=39&redirectUrl=%2Ffats%2Fcareers%2F requisition.jsp%3Frid%3D1165%26org%3DINSTITUTEDA%26cws%3D39
AGU RECEPTIONS

The AGU Reception is at Matchbox Chinatown in Washington D.C. on Thursday, December 13, from 7-9:30 p.m.

[See flyer for complete information]

MS SCHOLARSHIPS AND FELLOWSHIPS

AMS scholarships and fellowships range from $1,000 to $25,000 and are open for applications — whether you will be a college freshman or a graduate student. AMS supports your education and pursuit of a career in the atmospheric and related oceanic or hydrologic sciences.

- 21 Senior Scholarship awards ranging from $2000 to $10,000 are available in 2019 for outstanding undergraduate students entering their final year of study. Applications are due on 8 February 2019.

- AMS Graduate Fellowships include a $25,000 stipend and partial travel support to attend the AMS Annual Meeting. Applications are due on 11 January 2019.

- The AMS Freshman Undergraduate Scholarship program is open to all high school students and designed to encourage study in the atmospheric and related sciences. Applications are due on 8 February 2019.

- AMS Minority Scholarships award funding to minority students who have been traditionally underrepresented in the sciences, especially Hispanic, Native American, and Black/African American students. Applications are due on 8 February 2019.

To learn more and apply click here.

FACULTY SEARCH COMMITTEE WORKSHOP SET FOR JAN. 28

ADVANCE-Purdue is offering a session of the "ADVANCE-Purdue/OVPEC Faculty Search Committee Workshop" on Jan. 28.

The workshop, which is open to all faculty and required for serving on a search committee, will be held 1:15-5 p.m. in Purdue Memorial Union's West Faculty Lounge.

The workshop provides an interactive opportunity to explore and discuss search strategies and challenges. It is research-based and includes important information on unintentional bias. The workshop is conducted in a roundtable format that offers opportunity for an in-depth discussion of faculty search best practices with other faculty members across campus, including how to build a robust and diverse candidate pool.

Those faculty planning to attend can click the link to register for the workshop here. Those interested in being on search committees in the fall should register for this workshop.

Any questions should be directed to De Bush at djbush@purdue.edu. The workshop and registration information is also available here.

The Office of the Vice President for Ethics and Compliance is committed to making all programs accessible to participants with disabilities. Those who require an accommodation or assistance due to a disability for this program should contact the office before the program begins at 765-494-6373, or vpeceducation@purdue.edu.

COURSE ANNOUNCEMENT (ME597)

Course: ME597 Innovation and Problem Solving With an Emphasis on TRIZ Tools.
Instructor: Kartik Ariyur

Spring 2019, entirely online (course lectures on video, flipped classroom on campus). Office hours

http://www.eaps.purdue.edu/
via telecon/teamviewer/in person for project help-
note that there is an online section, and an on-
campus section for those on campus.

Video pitch on Youtube:
https://www.youtube.com/watch?v=6-UaEpj2Ajs

https://engineering.purdue.edu/ProEd/courses/innovation-problem-solving-emphasis-triz-tools

Are you facing hard technical problems that have eluded solution for months or even years? Are you looking to generating multiple alternative approaches to the problems you are attacking? Have you ever wondered how you could be Sherlock Holmes, and crunch through any complex problem, using both imagination and deduction systematically? If the answer to any of these questions is yes, then this course will help. This has produced valuable results for students in the form of solved problems in engineering (which previously had escaped solution for months or sometimes years) and intellectual property. One student won the top innovation award at Purdue (Burton Morgan competition) in Spring 2018, and another created a predictor of bitcoin value that predicted its value some 20-30 days in advance for the whole of last fall (took the course in Fall 2017). Based on your results in the class project, you may be able to publish a paper in TRIZCON 2019 also if Purdue hosts it as it did in 2018.

For proof, see the variety of areas I have solved problems in. Check out my researchgate profile:
https://www.researchgate.net/profile/Kartik_Ariyur

The class integrates expertise from innovative engineers and TRIZ experts from around the world (see http://opensource-triz.com/) and goes much beyond in integrating the insights of many disciplines inside a function modeling + TRIZ framework. When I taught a portion of the material in industry, many hard and pending problems got solved during an intensive 40 hour course, and the participating engineering teams generated a great deal of Intellectual Property.

SAP PORTAL PAUSE DATES ANNOUNCED IN PREPARATION FOR SUCCESSFACTORS TRANSFORMATION

Data preparations are underway for the upgrade to SuccessFactors, set to deploy Jan. 1. Nonexempt (i.e., hourly) staff will access SuccessFactors starting with the Dec. 24-Jan. 6 pay period. Exempt staff will access SuccessFactors starting Jan. 2. All employees will use SuccessFactors to view pay statements, adjust tax information, edit bank details, request time off, etc.

Pause activities and dates are being implemented to reduce data conversion risk. Managers are encouraged to review the pause dates and adjust their staff hiring process timeline.

All employees should be aware of the Purdue SAP Portal pause on Nov. 28. Nov. 27 is the last day employees can access Purdue SAP Portal via OneCampus to view their salary statement, request leave online, or update personal information such as bank details, tax withholdings, etc. Employees are encouraged to request their December-dated time off or leaves by the needed time frame.

Here are the dates for the processes/systems that will be affected by the pause:


Dec. 14: Staff recruitment through Taleo. Taleo pauses (hiring managers can continue to use existing candidate pools).

Dec. 19: Benefit changes. New hires and individuals with qualifying life events can continue to make changes to benefit elections in Benefitfocus, the online benefit enrollment system, through 5 p.m. Dec. 19.
CELEBRATIONS

Chris Andronicos  December 2
Darryl Granger   December 5

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 most recent of Earth’s five largest mass extinction events occurred 66 Ma, coeval with the impact of a ~12 km asteroid, striking at ~60 degrees into what is today the Yucatán Peninsula, México, producing the ~200 km-wide Chicxulub crater. This impact, by some estimations, drove the extinction of 75% of life on Earth at the genus level including all non-avian dinosaurs. The mass extinction event marks the boundary between the Cretaceous and Paleogene. Proposed kill mechanisms include thermal effects caused by the reentry of fast ejecta into Earth’s atmosphere, dust and sulfate aerosols reducing Earth’s solar insolation, ocean acidification, and metal toxicity due to the chemical make-up of the impactor. The magnitude and duration of these processes is still debated, and further evaluation of the proposed kill mechanisms requires an understanding of the mechanics of the Chicxulub impact as well as the resulting global environmental perturbations. In 2016, 835 m of core was recovered from the Chicxulub impact structure through IODP-ICDP Expedition 364. Analyses done on these cores, downhole logs, and geophysical site survey data have led to a series of advancements to our understanding of impact cratering processes and to how the Chicxulub impact affected the Earth’s environment leading to the Cretaceous-Paleogene mass extinction. Some key results in terms of impact crater processes include: 1) validation of the dynamic collapse model for large impact crater formation; 2) unprecedented insights into deformation mechanisms imparted by shock and release as well as cratering at variable length and time scales, collectively corroborating the acoustic fluidization hypothesis; 3) direct measurements and analyses of shocked target rocks to provide an explanation for the large reductions in density and enhancements in porosity generated by impacts; and 4) sampling and mapping of >100 m of high porosity suevite and impact melt rock as a case study of cratering processes. These cores also provided greater understanding of how impact cratering can affect life positively and negatively including: 1) long term but heterogeneous hydrothermal system generated by the impact, 2) colonization of impactites by thermophiles, 3) rapid recovery of marine life within the flooded Chicxulub crater basin, 4) direct evidence of impact tsunami and wildfires, and 5) evidence of significant sulfate aerosol production from the impact site affecting the global environment.
You’re Invited to the

EAPS HOLIDAY CELEBRATION

Friday, December 7
12:00 PM - 1:30 PM
Hampton Hall 2201

Main dish provided.
Please bring a side or dessert to share.
Job Details: College of Liberal Arts & Sciences: Instructor/Lecturer/T... https://jobs.illinois.edu/academic-job-board/job-details?jobID=10509...

Instructor/Lecturer/Teaching Assistant Professor
Department of Atmospheric Sciences
University of Illinois at Urbana-Champaign

The Department of Atmospheric Sciences at the University of Illinois at Urbana-Champaign invites applications for a mission-critical undergraduate teaching and academic advising position in our undergraduate program. This is a 9 month (paid over 12), full-time academic appointment (non-tenure track) at the rank of Instructor, Lecturer, or Teaching Assistant Professor (title commensurate with experience and qualifications), but with opportunities for summer salary through online course instruction.

The University of Illinois is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply. For more information, visit http://go.illinois.edu/EOE. To learn more about the University’s commitment to diversity, please visit http://www.inclusiveillinois.illinois.edu

Responsibilities
The successful applicant will serve as the primary academic advisor and professional mentor to 80-100 undergraduate students, and will be expected to meet with prospective students and their parents during campus visits. She will also teach two courses per semester, including preparing and presenting lectures, writing and grading examinations, holding office hours to meet with students outside of class time, monitoring teaching assistants, and assigning grades. She will be encouraged to develop new courses and experiment with novel teaching techniques. Applicants for the Teaching Assistant Professor level will also be expected to engage in scholarly research and service to the Department/College/University.

Qualifications
The appointment requires experience in college- or university-level teaching. Instructor title requires a M.S. in atmospheric sciences, meteorology, or a closely related field. Lecturer/Teaching Assistant Professor title requires a Ph.D. in atmospheric sciences, meteorology, or a closely related field. Interest or experience in education research, curriculum development, current educational technologies, and a strong desire to create new and innovative course materials and experiments will enhance an application. Teaching Assistant Professor title applicants must demonstrate the ability to make an instructional and curricular impact both within the Department and beyond, either through scholarly publications, invited talks, or other related activities involving their discipline, pedagogy and student interactions.

The successful applicant should possess: excellent interpersonal communication skills, a desire to interact with prospective students and their parents, excellent organization and time management skills, and demonstrated excellence in teaching and advising at the UG level.

SALARY AND APPOINTMENT INFORMATION
Title and salary are commensurate with experience and qualifications. The preferred start date is August 16, 2019.

APPLICATION PROCEDURES AND DEADLINE INFORMATION
Create your application through http://jobs.illinois.edu and upload PDF files of your cover letter, curriculum vitae, and statement of teaching philosophy. The online application will require names and contact information for three references. Teaching Assistant Professor applicants must also upload PDF files of the following:

- Sample syllabi, assignments, and other teaching materials that provide evidence of the quality of their instruction so far, or of instruction that they hope to do.
- A 1- to 3-page narrative that describes their current and/or future plan for contributing scholarship that enhances the Department and University and make an impact beyond the campus. Research discussed can be disciplinary, pedagogical, or both.
- Copies of any published works completed.

Please contact Jill Randell at randell@illinois.edu if you have questions. In order to ensure full consideration, applications (in PDF format only) must be received by January 4, 2019. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date.

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer.
Tenure-track Faculty Position in Atmospheric Remote Sensing

The Department of Atmospheric and Oceanic Sciences at McGill University is seeking outstanding applicants for a tenure-track Assistant Professor position in remote sensing of the atmosphere, the ice or the ocean surface to strengthen its leadership in remote sensing and earth system science. The successful applicant will be expected to develop an active research program, supervise graduate students, and teach a variety of undergraduate and graduate courses in the Department of Atmospheric and Oceanic Sciences and in the Earth System Science program. A relevant doctoral degree in physical sciences or engineering is required.

The successful candidate is expected to pursue research in remote sensing of the atmosphere, the ice or the ocean surface with a strong modelling and/or observational component. The range of possible research areas is broad and includes but is not limited to: 1) the development of retrieval methods for studies of atmospheric composition, temperature, wind, precipitation, air-sea interactions, surface ocean temperatures and circulation 2) the use of measurement data for the characterization and understanding of processes affecting weather, air quality, climate, sea ice and 3) the development and validation of remote sensing instruments. The Department of Atmospheric and Oceanic Sciences has strong ties with the Departments of Mathematics and Statistics, Chemistry, and with the Earth System Science Program. Access to high performance computing is available through Compute Canada.

McGill University is an English-speaking university located in Montreal, one of North America’s most cosmopolitan cities. For more information about McGill University and the Department of Atmospheric and Oceanic Sciences, please see http://www.mcgill.ca/metoe

Qualified candidates are invited to submit an application, including a curriculum vitae, a statement of research interests, a statement of teaching interests, and names and contact information for three references. Following a preliminary screening, we will contact the references directly. Applications can be sent via email in pdf format to remotesensing.aos@mcgill.ca or by post to Dr. John R. Gyakum, Chair, Department of Atmospheric and Oceanic Sciences, McGill University, 805 Sherbrooke Street West, Montreal, QC H3A 0B9, Canada (Telephone: 1-514-398-3760; fax: 1-514-398-6115).

The preferred starting date for this position is August 1, 2019. Review of the applications will begin on January 21, 2019, and continue until the position is filled.

*McGill University hires on the basis of merit and is strongly committed to equity and diversity within its community. We especially welcome applications from visible minority group members, women, Indigenous persons, persons with disabilities, persons of minority sexual orientations and gender identities, and others with the skills and knowledge to productively engage with diverse communities. We encourage members of equity-seeking groups to self-identify within their letter of intent in their application. Persons with disabilities who anticipate needing accommodations for any part of the application and hiring process may contact, in confidence, Professor Angela Campbell, Associate*
Provost (Equity and Academic Policies) at (514) 398-1660 or at Angela.Campbell@mcgill.ca. Associate Provost Campbell can also answer questions related to equity, diversity and inclusion, or privacy concerns the candidate may have related to self-identifying. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.
CIMMS Research Associate – Scientific Programmer for Developing & Integrating Warn-on-Forecast Guidance into AWIPS 2

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) National Severe Storms Laboratory’s (NSSL) Warn-on-Forecast (WoF) research and development effort. NOAA’s WoF program seeks to develop a storm-scale ensemble prediction system to provide short-term, probabilistic guidance of high-impact weather.

The incumbent will work within the NOAA Earth System Research Laboratory (ESRL) Global Systems Division (GSD) in Boulder, CO as part of the Hazard Information Services project within the Weather Information Systems Evolution group. Hazard Services is a multi-year effort, and one foundational aspect of the project is to combine the existing capabilities of AWIPS WarnGen, Graphical Hazard Generator, and RiverPro into a single application. Currently, these critical applications allow National Weather Service (NWS) forecasters to produce hazard watch, warning, and advisory products and deliver various hazard-related services. Other development areas for Hazard Services include probabilistic hazard information, NWS National Center applications, and potential applications for international agencies. Hazard Services will be the primary software for operationalizing many concepts related to FACETs (Forecasting a Continuum of Environmental Threats) in the NWS.

The primary job responsibility of this position will be integrating WoF guidance into the Advanced Weather Interactive Processing System (AWIPS 2) for use in the Hazard Services program. Additional responsibilities include close collaboration with CIMMS and NSSL scientists working on WoF and Hazard Services to develop advanced capabilities of the Hazard Services program using WoF guidance.

The principal duties of this position are:
- Develop software for visualizing WoF guidance products in the Advanced Weather Interactive Processing System (AWIPS2).
- Closely collaborate with CIMMS, ESRL, and NSSL scientists working on WoF and Hazard Services to develop advanced capabilities of the Hazard Services program using WoF guidance.
- Design and implement novel post-processing and visualization techniques for ensemble numerical weather prediction.
- Assist in assessing the usability, strengths, and limitations of WoF within NWS operations and during Hazardous Weather Testbed experiments.
- Attend meetings, workshops, and professional conferences to present research results and interact with operational forecasters, collaborators, and users.

Required Qualifications:
- A Master’s degree or higher in Meteorology, Atmospheric Science, Computer Science, or related area.
- Strong programming (e.g., Java, C, C++) and scripting (e.g. Python, NCL) skills, and experience with Linux (or Unix) operating systems.
- Excellent oral and written communication skills.
Ability to work and communicate effectively in diverse team environments.
Ability to pass a National Agency Check with Inquiries (NACI, federal background check). U.S. Citizenship or Permanent Residency is required.

Desired Qualifications:
- Experience in designing and developing interactive software applications
- Experience with ensemble-based data assimilation and numerical weather prediction, probabilistic weather forecasting, and transition of research to operations (R2O).

Normal working hours will be observed except for occasional irregular hours during Hazardous Weather Testbed Experiments or for workshops conducted at remote sites. This position will primarily be located in Boulder, Colorado with quarterly trips to Norman, Oklahoma.

Supervision will be provided by CIMMS staff. Technical oversight will be provided jointly by CIMMS Research Scientists, GSD collaborators, and NSSL management. Works under general supervision but is expected to work in a team environment and determine action to be taken in handling all but unusual situations. Incumbent is not expected to supervise other employees.

The salary for this position is very competitive and will be based on experience, skills, and knowledge. Information on University benefits may be found at [https://hr.ou.edu/](https://hr.ou.edu/). The position is expected to begin January-February 2019.

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

Tracy Reinke, Executive Director, Finance and Operations
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK  73072-7304
treinke@ou.edu
ATTN: Scientific Programmer WoF AWIPS2

*The University of Oklahoma is an equal opportunity/Affirmative Action employer.*
Living With Loss

Wednesday, December 5th
7:00 to 8:00pm
BRNG 3119

With the holiday season coming, grieving your losses can be additionally challenging. Come join us for an information session to learn about grief responses and coping strategies.

Grief is:

- Unique to each person
- Multidimensional
- Unfolding over time

Grief does NOT:

- Move in stages
- End after a few months
- Equal sadness

No Sharing Required
Open to All
Hosted by Dr. Heather Servaty-Seib and the Grief and Loss Team
The American Geosciences Institute

Harriet Evelyn Wallace Scholarship

WHAT
AGI is seeking women pursuing thesis-based Master’s and Doctoral degrees in the geosciences for the 7th Harriet Evelyn Wallace Scholarship. Applications are being accepted now for the 2019-2020 academic year. Successful applicants will be full-time students and must be U.S. citizens or permanent residents.

APPLICATION PROCESS
To find out more information about application credentials and procedures please visit: www.americangeosciences.org/scholarships

HOW MUCH
$5,000 for 2019-2020. Successful Scholars are eligible to compete for a second scholarship in future years, given that they continue to be full-time geoscience students. There is a 2-term life maximum for the scholarship.

QUESTIONS
Contact the scholarship coordinator at wallacescholarship@americangeosciences.org.

APPLICATION DEADLINE
January 4th, 2019
Research Associate – ARM Data Quality Office

The Cooperative Institute for Mesoscale Meteorological Studies at the University of Oklahoma is seeking a Research Associate with excellent attention to detail and strong programming skills to join the U.S. Department of Energy’s (DOE) Atmospheric Radiation Measurement (ARM) Program Data Quality (DQ) Office located in the National Weather Center at the University of Oklahoma in Norman, Oklahoma. The DQ Office Supports the ARM Program by serving as the first line of defense in discovering data quality issues with the final goal of providing the science community with the highest quality data possible. The primary responsibilities of the DQ Office are, in close cooperation with ARM instrument mentors, site operators, and other members of the ARM infrastructure, to create automated processes for inspection and assessment of data quality, inspect and assess the data, report detected problems and participate in their resolution, and communicate data quality findings to end-users of ARM data.

The duties of this position are:

● Develop software for displaying, inspecting, and assessing ARM data
● Help maintain and improve our web-based tools https://dq.arm.gov
● Work with ARM personnel to improve and develop new data quality analysis techniques and visualizations
● Facilitate problem resolution and communication of data quality problems with ARM infrastructure
● Mentor undergraduate student analysts who assist in the analysis of ARM data
● Participate in relevant data quality research projects as opportunities arise
● Represent the DQ Office at meetings and conferences
● Perform related duties as assigned

The minimum qualifications for this position are:

● M.S. in atmospheric science, earth system science, meteorology, or related field Or B.S. in atmospheric science plus three years full-time experience
● Strong computer programming skills, particularly in command-line Linux environments
● Experience with meteorological data analysis, including scientific data formats such as netCDF

Preference will be given to applicants with:

● Knowledge, experience, or previous education focusing on meteorological instrumentation, atmospheric chemistry and/or aerosols, radar, lidar, or atmospheric fluxes
● Experience performing data analysis and visualization with Python; consideration will also be given for work done with other languages such as IDL, Matlab, Perl, or R
● Knowledgeable in new and emerging programming techniques, such as machine learning, big data analysis, or software automation
● Experience with revision control systems such as Git or SVN
● Experience with web programming (Javascript, PHP, HTML, CGI, etc.)
The beginning salary will be competitive for this position, and will be dependent on experience. The University of Oklahoma provides a generous benefits package. Information on benefits may be found at https://hr.ou.edu/Employees. The position will remain open until a suitable candidate is identified.

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

Tracy Reinke  
Executive Director, Finance and Operations  
University of Oklahoma CIMMS  
120 David L. Boren Blvd., Suite 2100  
Norman, OK 73072-7304  
treinke@ou.edu  
Job Requisition – ARM Data Quality

*The University of Oklahoma is an equal opportunity/Affirmative Action employer.*
The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) seeks to fill a Post-Doctoral Research Associate position for its collaborative research with the National Oceanic and Atmospheric Administration (NOAA) National Severe Storms Laboratory (NSSL) at the National Weather Center (NWC) in Norman, Oklahoma. The Post-Doc will contribute to applications of NSSL’s Warn-on-Forecast (WoF) research and development program in predicting tornadoes and other hazardous weather associated with landfalling hurricanes. The incumbent will work in close collaboration with the researchers at NOAA’s Atlantic Oceanographic and Meteorological Laboratory (AOML) Hurricane Research Division (HRD) in Miami, Florida. The dynamic research and operational working environment at the NWC and HRD will provide the candidate with ample opportunities for career advancement.

**Background:**
The National Weather Service issues outlooks for landfalling hurricane hazards, followed by mesoscale discussions and watches 1–12 h in advance of landfall. The National Hurricane Center, Storm Prediction Center, Weather Prediction Center, local Weather Forecast Offices and River Forecast Centers issue outlooks, watches, and warnings for tornadoes, high winds, extreme rainfall and flash floods. However, forecasting these hazards associated with landfalling hurricanes are very challenging. Forecasts for these hazards can be advanced through the creation of and improvements to probabilistic guidance from convection-resolving numerical weather prediction ensemble output.

**Essential job functions include:**
- Advance ensemble forecasts for hazards associated with landfalling tropical cyclones, including tornadoes, wind gusts, and extreme rainfall.
- Investigate the impact of different observations on these forecasts.
- Create probabilistic guidance from ensemble output to efficiently communicate hazards.
- Interpret and publish results in progress reports and peer reviewed literature.
- Present research results at meetings and conferences.
- Contribute towards proposals written to maintain and expand this research effort.

**Desired Qualifications:**
The incumbent must have a Ph.D. Degree in Atmospheric Science or an equivalent subject having performed research in the area of tropical cyclones. The incumbent must demonstrate skill in data analysis and must have previous experience with numerical weather prediction models and tropical cyclone data. Experience working with large datasets and strong programming (e.g., Fortran, C, C++), and scripting (e.g. Python, NCL) skills are desirable. We encourage motivated individuals with excellent written and verbal communication skills. The incumbent must be an easy relationship builder, creative, intelligent, and a flexible, supportive team member. The appointment is for 2 years with annual renewal based upon performance.
Start date for the position will be as soon as the candidate can begin work. The position will remain open until filled. Salary will be competitive depending on experience and qualification with University of Oklahoma benefits. Information on benefits may be found at http://hr.ou.edu/.

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

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REFERENCE: Landfalling Tropical Cyclones

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11th Annual Purdue Reception at the AGU Fall Meeting

Thursday, December 13
7:00 P.M. - 9:30 P.M.
Matchbox Vintage Pizza Bistro
713 H Street NW
Washington, DC 20001

Complimentary heavy hors d'oeuvres and beverages

Co-sponsored by:
Department of Earth, Atmospheric, and Planetary Sciences (EAPS) and Purdue Climate Change Research Center (PCCRC)