NEw EAPS PUBLICATIONS


https://authors.elsevier.com/a/1ZKAZFJX7SYhY

PCCRC paper number 1918.

In this paper, we quantified different metrics for carbon uptake per amount of water used, generically termed ‘water use efficiency’ of rainfed soybean research plots. We examined 5 years of data and found during a drought year, plant stomata closed in order to buffer against water loss due to increased demand from dry air. This conserved grain yield and field-scale water use
efficiency. The implication is that when the soybean conserved water used during drought, it reduced yield losses that would have occurred had there been no physiological (stomata) response to drought.

POSTERS ON DISPLAY ON FOURTH FLOOR

The following posters (on display on the fourth floor) were presented on July 9-10, 2019 at IUGG 2019 held in Montreal, Canada.

1. Comparison of a Dust Storm Forecast for the Middle East with Coincident Satellite Observations. H. Harshvardhan, S. Kumar, and J. George

2. The Influence of a Severe Dust Storm on Aerosol Optical Properties and Radiation Budget in the Middle East.

H. Harshvardhan, C. Fountoukis, and K. Kakosimos

NOAA HOLLINGS SCHOLAR

NOAA Hollings Scholar, Abby Sebol, presenting seminar on her summer internship at the Storm Prediction Center in Norman, OK. Abby worked in the group that focuses on wildfire forecasting, and her specific project focused on Dry Thunderstorm Outlooks (photo taken on July 23, 2019). Abby will be a senior this fall in APS, majoring in atmospheric science.

ASSOCIATE SCIENTIST III

COMET (www.comet.ucar.edu) is hiring an Associate Scientist III to be located in our Boulder, Colorado, office. This position will contribute to classroom operational meteorology instruction as well as to distance learning in the NWP and/or satellite meteorology topic areas.

Solid operational forecasting knowledge and an interest in teaching forecasting topics are highly desired.

The application period closes 22 July.


THWARTS
(Tornado Hazard Wind Assessment & Reduction Symposium)

This symposium, the second of its kind, seeks to bring together engineers, meteorologists and social scientists to address the problem of improving community resiliency from tornadoes. This multi-disciplinary symposium, funded by the NSF, in Champaign, IL is October 14-15, 2019.

Abstracts are due August 26, 2019 and there is some limited funding for student travel. If you are interested, this link will take you to the symposium site: https://thwarts.cee.illinois.edu/.

[See attached flyer for more information]

BIG TEN + GRADUATE SCHOOL EXPOSITION

Sunday & Monday, September 22-23, 2019

Free Grad Fair September 23 from 9:30/am-12/pm
PMU Ballrooms - PUID Required – Explore 70+
Universities!

www.purdue.edu/gradexpo

[See attached flyer for more information]
WEATHER ASSOCIATE/ANALYST – GREENWICH, CT

Citadel, a commodities trading investment firm, seeks a weather associate/analyst to join highly successful weather team.

Responsibilities:
- Contributing to time-sensitive research projects motivated by forecast challenges
- Managing meteorological and oceanic datasets
- Conducting model forecast verification

Qualifications, skills, and experience Required
- B.S. in atmospheric science or closely related field
- Proficiency in Python
- Experience working with geophysical data formats (e.g., netcdf)
- Knowledge of model forecast verification practices
- Demonstrated ability to work independently and as part of a team
- Record of success in delivering on short- and long-term projects
- Interest in serving weather stakeholders

Desired
- M.S. or Ph.D. in atmospheric science or closely related field
- Experience using NCAR Model Evaluation Tools (MET) verification package

The successful candidate will receive a competitive compensation/benefits package. Salary will be commensurate with experience.

To apply: Send resume/CV to heather.archambault@citadel.com.

Closing date: August 23, 2019

About Citadel: Citadel is a global investment firm built around world-class talent, sound risk management, and innovative leading-edge technology. For a quarter of a century, Citadel’s hedge funds have delivered meaningful and measurable results to top-tier investors around the world, including sovereign wealth funds, public institutions, corporate pensions, endowments and foundations. With an unparalleled ability to identify and execute on great ideas, Citadel's team of more than 675 investment professionals, operating from offices including Chicago, New York, San Francisco, London, Hong Kong and Shanghai, deploy capital across all major asset classes, in all major financial markets.

JILL HRUBY FELLOWSHIP

Accepting applications for the Jill Hruby Fellowship in National Security Science and Engineering. The Hruby Fellowship is one of Sandia National Laboratories’ most prestigious postdoctoral fellowships. This fellowship aims to develop women technical leadership careers in national security. All qualified applicants will be considered for this fellowship.

For more information, please visit: https://tinyurl.com/HrubyFellowship

Deadline: November 1 at midnight.

[For more information see attached flyer]

PRESIDENT HARRY S. TRUMAN FELLOWSHIP

Sandia National Laboratories is seeking applicants for the President Harry S Truman Fellowship in National Security Science and Engineering. Candidates for this position are expected to have solved a major scientific or engineering problem in their thesis work or to have provided a new approach or insight to a major problem, as evidenced by a recognized impact in their field.

For more information, visit: http://sandia.gov/careers/students_postdocs/fellowships/truman_fellowship.html

Deadline to apply is November 1 of each year and the fellowship normally begins on October 1 of the following year.

{See attached flyer for more information}
UNIDATA PYTHON WORKSHOP

If you signed up for this workshop back in March, it is now rescheduled.

Valparaiso University in Valparaiso, IN will be hosting a Unidata Regional Software Training Workshop August 12-13, 2019.

The workshop will be held in Kallay-Christopher Hall (1809 Chapel Dr., Valparaiso, IN 46383), Room 210, from 8:30am to 4:30pm on August 12-13, 2019.

For a more detailed schedule with links to the Jupyter notebooks that will be used in the workshop, see 2019 Python Workshop at Valparaiso University.

The workshop cost is $25 for students, faculty, and staff, or $50 for those not associated with an educational institution. Attendees should bring their own laptop if possible; a limited number of laboratory computers are available. (Please contact Dr. Goebbert if you need access to a lab computer.) Total seating is limited to 25 participants.

For more information go to the following link: https://www.unidata.ucar.edu/blogs/news/entry/python-focused-software-training-workshop7

AIR QUALITY AND NOISE SPECIALIST POSTION

Air Quality and Noise Specialist in Oregon with Department of Transportation.

Join us in keeping Oregon beautiful! We are recruiting for an air quality and noise specialist to join our Environmental Unit in Portland. In this role, you will be our regional technical expert in transportation noise for our agency and our local agency partners.

We invite members of all diverse communities to join our workforce as we endeavor to best serve Oregonians from every background. ODOT values diversity and inclusion because they are good for Oregon. We believe that by welcoming differences, encouraging new ideas and views, listening to and learning from each other, and providing opportunities for professional enrichment we are better able to serve those around us. We thank you for considering this employment opportunity.

For complete information and to apply go to: https://oregon.wd5.myworkdayjobs.com/en-US/SOR_External_Career_Site/job/Region-1-Headquarters---ODOT/Air-Quality-and-Noise-Specialist_REQ-17502

CIMMS RESEARCH ASSOCIATE – METEOROLOGICAL SOFTWARE DEVELOPER

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently seeking a Research Associate to collaborate with scientists, instructors, and developers at the National Weather Service (NWS) Warning Decision Training Division (WDTD) in Norman, OK, in enhancing the Weather Event Simulator for AWIPS-2 and transitioning the software into AWIPS-2 baseline code.

[See attached flyer for complete information]

CIMMS RESEARCH SCIENTIST – S2S SEVERE WEATHER AT THE STORM PREDICTION CENTER

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 NOAA/Storm Prediction Center (SPC) and NOAA/Climate Prediction Center (CPC). This Research Scientist will provide scientific and meteorological expertise, as well as technical support for the development of advanced mesoscale hazardous weather prediction techniques in the subseasonal to seasonal (S2S) timescales. This position will be base at the Storm Prediction Center (SPC) in Norman, OK, within the National Weather Center (NWC), a highly collaborative forecasting, research and academic environment containing a number of NOAA and OU organizations. The incumbent will work directly with development
meteorologists and operational forecasters at the SPC and CPC, and will have opportunities to interact with NOAA and academic scientists within the NWC, as well as scientists and forecasters in the severe storms community.

[For complete information please see attached flyer]

### METEOROLOGIST IN SILVER SPRING, MD

This position is located in the National Weather Service (NWS), Analyze, Forecast and Support Office (AFSO), Analyze and Mission Support Division (AMSD), Analysis and Nowcast Branch (ANB) with one vacancy in Silver Spring, MD.

As a Meteorologist, you will perform the following duties:

- Serve as a technical authority on validating various tools and models pertinent to the Analysis and Nowcast for the ANB.
- Collect, process and analyze forecast field' needs and help develop them into requirements to identify and fill gaps in analysis and short-term (0-18 hour) forecasting.
- Develop and implement validation algorithms for 0-18 hour forecasting tools and innovations in order to improve critical forecasting capabilities to meet the needs of NWS forecasters.
- Collaborate with the Office of Science and Technology Integration's OPG (Operations Proving Ground) and NOAA Testbeds on research to operations (R2O) processes to implement tools and techniques for operational use.
- Communicate with state/local officials, policy experts, and the media to negotiate technical approaches to problems, further preparedness programs, and negotiate and explain service levels.

For complete details go to: https://www.usajobs.gov/GetJob/ViewDetails/538341500

### EAPS ATMOSPHERIC SCIENCE UNDERGRAD GAINS EXPERIENCE

EAPS Atmospheric Science undergraduate, Allison Plumadore, gains experience at the National Weather Service office in Miami, Florida. Photo depicts Allison conducting a NWS balloon launch on June 17, 2019. These upper-air balloon soundings gather useful data required for daily initialization of numerical weather prediction models.

### CIMMS RESEARCH ASSOCIATE – TRANSPORTATION – RELATED WARNINGS

The cooperative institute for Mesoscale Meteorological Studies (CIMMS) at The university of Oklahoma (OU) seeks to fill a 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. This position will start in FALL 2019 to develop 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). This position is located in Norma, Oklahoma.

[See attached flyer for more information]

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**POSTDOCTORAL RESEARCH ASSOCIATE I**

Seeking Postdoctoral Researcher(s) to work on NASA funded projects to further develop data assimilation capabilities with the Community Land Model using the Data Assimilation Research Testbed to improve our understanding of the global carbon cycle. This position will be located at the national Center for Atmospheric Research in Boulder, CO.


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**ASSOCIATE SCIENTIST, EARTH SCIENCES**

Entry level MS position supporting GPM at NASA Goddard.

In this position, the researcher will conduct research to advance ground validation activities for the NASA Global Precipitation Measurement (GPM) mission. The research will fall into three task areas: (a) characterizing uncertainties in satellite and ground-based (radar, dense gauge networks) rainfall estimates over a broad range of space/time scales; (b) using data from synergistic missions/sensors (e.g. SMOS, SMAP, GRACE, MODIS) to characterize correct detection or false alarms in GPM products; and (c) characterizing uncertainties in hydrologic models and understanding propagation of input uncertainties into model forecasts. The research involves work on retrospective regional analysis, retrospective global analysis, and real-time global analysis. The researcher will leverage existing open source modeling platforms including NASA’s Land Information System (LIS) to conduct these analyses.

Details here: [https://usrogenecareers.com/postings/index.cfm? fuseaction=app.jobinfo&jobid=907&version=1#.XN6VW hyg8fo.twitter]

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**KAVLI CIVIC SCIENCE FELLOW**

Are you passionate about civic science, including science outreach, communication, and public engagement? We, a collaboration of scientific societies, are looking for someone to lead an initiative that will increase the support and incentives for scientists who incorporate civic science into their work. The Kavli Civic Science Fellow is an ideal position for someone who has experience in civic science and is looking for an opportunity to think more broadly about advancing the field. This fellowship presents a remarkable opportunity to work with leaders across multiple scientific societies, while ultimately, influencing the culture of science and its relevance to society.

The American Society for Cell Biology (ASCB), the American Association for the Advancement of Science (AAAS), the American Geophysical Union (AGU) and Research!America are partnering to support the work of a Kavli Civic Science Fellow who will work across multiple scientific societies to connect, and advance the societies’ collective support so that scientists are empowered to undertake civic science activities. As part of their work, the Kavli Civic Science Fellow will follow a collective impact model that will rely on strategizing, data collection, and analysis and team building. The goal of the fellowship is to lay the groundwork for a more cohesive whole among societies, as they work towards influencing long-term culture change within the scientific enterprise to increase value and support for meaningful civic science engagement. This position is an 18-month fellowship.

The Kavli Civic Science Fellow will have the opportunity to shape the activities of the fellowship, with leaders from multiple scientific societies, to meet this larger goal. By working with a wide range of scientific societies, the Kavli Civic
Science Fellow along with the scientific societies will set a common agenda, which establishes an agreed understanding of the problem and a shared vision of change. They will then work to establish common progress measures and mutually reinforcing activities.

Some of the activities that may be undertaken by the Kavli Civic Science Fellow in collaboration with representatives from the scientific societies may include:

• Conduct a landscape assessment of scientific societies’ visions, goals, capabilities, programs and opportunities related to civic science.
• Recommend ways in which scientific societies can leverage their strengths and authorities to encourage academic and funding institutions to provide deeper support for civic science-including altering their incentive structures.
• Highlight existing resources and speed the development of new resources that support scientific societies’ planning, implementation, and evaluation of civic science, including resources that societies make available to their members.
• Increase collaboration among scientific societies to accomplish work at the grassroots level and to find efficiencies in the existing system and leverage these efficiencies to better support societies of varying sizes and scales that want to encourage their members to do effective civic science engagement.

The candidate will also be part of the inaugural class of Civic Science Fellows. The Fellowship will embed emerging leaders from diverse backgrounds in organizations working at the many interfaces of science and society. Additional fellows will be hired by other organizations later this year. The benefits of being a Civic Science Fellow include access to a network of Fellows at other institutions, professional development in subject matter as well as leadership skills, and mentoring.

Requirements
• Master’s degree or higher in science, science communication or related field.
• Experience in an aspect of civic science: science outreach, public engagement, science communication.
• Experience in program or project management.
• Understanding of the culture of science and scientific societies or similar organizations is desirable.
• Strong written and verbal communication skills.
• Ability to work independently.
• Comfortable working with CEOs and with mid-level staff who run programs.
• Possess initiative, be entrepreneurial, and think strategically and long-term.

ASCB will be the fiscal and administrative home institution for the Fellow, who will spend time in several other societies located in the DC area in a series of 2 month rotations. This is an 18-month position. The salary for this fellowship is $80K per year plus benefits.

Please submit a cover letter with salary requirements and resume. Apply at: https://recruiting.paylocity.com/Recruiting/Jobs/Apply/118055

CIMMS Research Scientist
Planetary Boundary Layer Modeler

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for an early-career Research Scientist to provide scientific and meteorological expertise in the areas of planetary boundary layer (PBL)/turbulence parameterization schemes for high-resolution numerical modeling in support of the Warn-on-Forecast program at the National Severe Storms Laboratory (NSSL). In addition to PBL modeling expertise, this Research Scientist will also require experience in the evaluation of numerical model output using PBL observations obtained from research platforms like the NSSL Collaborative Lower-Atmosphere Mobile Profiling System or unmanned aircraft systems.

As part of this opportunity, the Research Scientist will explore and develop new modeling approaches for PBL processes related to forecasting severe convective weather to support the NSSL Warn-on-Forecast System. Furthermore, the Research Scientist will explore the potential for new and emerging PBL profiling systems under development in the international community (e.g.
water vapor differential absorption lidars) to enhance NSSL’s mission of understanding severe convective weather processes and supporting National Weather Service forecast operations. The incumbent will also propose revised scientific priorities for observing, analyzing, and modeling the PBL in relation to severe convective weather as new knowledge is generated. 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 PBL profiling and research (e.g. OU and NOAA/ESRL/Global Systems Division and Physical Science Division). The position will be based in Norman, OK within the National Weather Center (NWC), a highly collaborative forecasting, research, and academic environment containing a number of NOAA and OU organizations.

[See attached flyer for complete information]

CIMMS WARN-ON-FORECAST SCIENTIFIC PROGRAMMER

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) seeks to fill a Scientific Programmer position to support the National Oceanic and Atmospheric Administration (NOAA) National Server Storms Laboratory’s (NSSL) Warn-on-Forecast (WoF) research and development program. This position is located in Norman, Oklahoma.

[See flyer for complete details]

THE GORDON RESEARCH CONFERENCE ON RADIATION & CLIMATE

Applications are now being accepted for the upcoming Gordon Research Conference (GRC) on Radiation and Climate and associated Gordon Research Seminar (GRS) for early career scientists.

Bridging Spatial and Temporal Scales in Radiation and Climate
July 21-26, 2019
Bates College, Lewiston, ME
GRC Chairs: Andrew Gettelman and Bastiaan van Diedenhoven
GRS Chairs: Carolin Klinger and Elin McIlhattan

Since physical processes related to radiation and climate occur on scales from the microscale to the global, and from seconds to ice ages, bridging observations and modeling between such scales is challenging but crucial. Each range of spatial and temporal scales adds knowledge and understanding. Topics of this conference will include: ice and liquid clouds, aerosols, climate sensitivity, dynamics, greenhouse gases and the Arctic. Each topic will be discussed from the perspectives of various contrasting scales with a focus on measurement, modeling and theory to analyze critical radiation and climate questions.

Posters are invited on all of these topics. As is custom with GRCs, there will be time for discussion, reflection, and interaction across disciplines. Link to GRC site and application

Additionally, a Gordon Research Seminar (GRS) for early career scientists will be held July 20-21. The GRS is a 2-day meeting immediately preceding the GRC that enables graduate students, post-docs, and other scientists with comparable levels of experience to come together in a highly-stimulating and non-intimidating environment to discuss their current research and build informal networks with their peers. Those interested in attending both the GRS and GRC must submit an application to each. Link to GRS site and application

***Please note that the number of GRS participants is limited to 60 people. We advise you to apply early to secure your place***

If you have any questions or would like further information on the GRC please contact Andrew Gettelman, or for the GRS contact Elin McIlhattan.

FACULTY SEARCH COMMITTEE WORKSHOPS SCHEDULED FOR FALL

ADVANCE Purdue is offering three fall sessions of the "ADVANCE/OVPEC Faculty Search Committee Workshop" in August, September and early November.

http://www.eaps.purdue.edu/
The workshop, which is open to faculty and administrators and required for serving on a faculty search committee, will be held 1-5 p.m. on Aug. 20 and Sept. 16 in Purdue Memorial Union’s East and West Faculty Lounges. Lunch items will be available. The final fall 2019 workshop will be held 1-5 p.m. Nov. 6 in Purdue Memorial Union’s East Faculty Lounge with lunch items available.

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.

Faculty and administrators planning to attend can register online for one of the workshops.

Any questions should be directed to De Bush at dibush@purdue.edu. The workshop and registration information also is available on the workshop page. Those interested are encouraged to register as soon as possible due to the high demand for these workshops.

The Office of the Vice President for Ethics and Compliance is committed to making all programs accessible to participants with disabilities. Individuals who require an accommodation or assistance due to a disability for this program should contact the office before the program begins at 765-494-7255 or equity@purdue.edu.

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2019-20 FACULTY-STAFF PARKING PERMITS AVAILABLE FOR ONLINE PURCHASE

Current parking permits expire on Aug. 15, 2019, and new permits will be valid from Aug. 1, 2019, through Aug. 15, 2020. In order to avoid delays or have a lapse in campus parking eligibility, Parking and Transportation Services recommends purchasing a 2019-20 parking permit by Aug. 5.

Faculty and staff who do not have outstanding citations may purchase a parking permit online at https://purdue.t2hosted.com by choosing “Get Permits,” selecting “Purchase Faculty/Staff Permit 2019-20,” logging in with BoilerKey credentials and following the instructions. Though each faculty or staff member may list multiple vehicles per online account, only three may be actively linked to a permit. Of the three linked vehicles, only one may be parked on campus at any given time.

Existing license plate numbers linked on an individual’s online account will be listed as choices for the new permit, and associated vehicle information will not need to be entered again. As was the case for 2018-19, license plates continue to serve as an individual’s parking permit, and as a result a standard campus parking permit is not required to be displayed in a vehicle’s windshield. However, some parking spaces require displaying special permits, including spaces that are reserved for university vehicles or are handicap-accessible.

Any vehicle that is parked on campus needs to be linked to an active Purdue permit to avoid receiving a ticket, and each permit holder is responsible for maintaining the accuracy of vehicle information in the online account for parking enforcement. This includes but is not limited to vehicle make and model, license plate number and expiration date.

During the purchase process, faculty and staff should confirm that the campus department and building listed are correct. Those who purchase an “A” permit will receive a new garage access card for use in the gated parking garages via campus mail by Aug. 10. Garage access cards that were issued for 2018-19 will become invalid as of Aug. 15 and should be destroyed at that time.

Additional information about faculty and staff parking permits is available online.

Most parking and permit questions should be directed to Parking and Transportation Services at 765-494-9497 or parking@purdue.edu. Questions related to disability parking needs or related questions should be directed to Susan Black, Parking assistant manager, at seblack2@purdue.edu or 765-494-9493.
FACULTY AND STAFF INVITED TO GREEN ZONE STUDENT PANEL TO LEARN ABOUT MILITARY, VETERAN EXPERIENCE

About 10 years ago, when Corey Linkel was just getting started as an academic advisor at Purdue, he had a meeting with a student veteran that felt like a success at the time.

Later, after Linkel came to know the student better, the student admitted to having a different experience.

“He told me he had felt disappointed after our initial meeting, that he felt isolated and disconnected and didn’t feel like he was getting out of the advising appointment what he needed,” Linkel says. “That experience caused me to pause and rethink things. It made me realize that our military-connected students have needs that I didn’t understand as well as I needed to, and it made me want to do more to support them.”

Linkel never forgot the experience. That’s why he attended the inaugural Green Zone Student Panel last fall. The event will be offered again from 2-4 p.m. on Wednesday, Nov. 13, in Lawson, Room 1142, and faculty and staff are invited to attend. During the panel, students will share personal stories aimed toward expanding participants’ understanding of the military-connected student experience.

Linkel, who now serves as associate director of undergraduate programs for the Weldon School of Biomedical Engineering, says anyone on campus who works with students should consider attending an upcoming session, the nearest of which takes place from 10 a.m. to noon on Thursday, July 25, in Krach, Room 260.

Below is a full list of upcoming Green Zone opportunities:

- **Green Zone:** 10 a.m. to noon Thursday, July 25, in Krach Leadership Center, Room 260
- **Green Zone:** 2-4 p.m. Monday, Sept. 23, in Lawson, Room 1142
- **Green Zone:** 2-4 p.m. Tuesday, Oct. 15, in Rawls, Room 2079
- **Green Zone Student Panel:** 2-4 p.m. Wednesday, Nov. 13, in Lawson, Room 1142
- **Green Zone:** 10 a.m. to noon Tuesday, Dec. 17, in Grissom, Room 103

“Being aware of veteran students’ needs better prepares me to work with any student who has more going on than what’s visibly on the surface, whether a student may be experiencing things such as PTSD, anxiety, or other unseen disabilities,” Linkel says. “The more I educate myself, the more I realize there’s so much more out there to learn. I encourage everyone to get the training, be supportive, and be an ally.”

Individuals who would like to participate in Green Zone training but are unable to attend the scheduled sessions may contact [Jamie Richards](mailto:jamie.richards@purdue.edu) to schedule future offerings. Staff and faculty may also visit the Veterans Success Center (part of Student Success Programs), located in the Purdue Memorial Union, Room 284.

Writer: Andrea Mattingly, 765-496-3754
SAVE THE DATE
2019 CONFERENCE FOR PRE-TENURE WOMEN

Achieving Promotion: You Can Do It!
Conference for Pre-Tenure Women
September 5-6, 2019
Keynote Speaker: Neeli Bendapudi, Present,
University of Louisville
Keynote Title: Authentic Leadership

Neeli Bendapudi is the 19th President of the University of Louisville. She received her Ph.D. in
Marketing from the University of Kansas and has taught at The Ohio State University and Texas A&M University. She most recently served as Provost and
Executive Vice Chancellor at the University of Kansas, where she had previously been Dean and H.D. Price Professor of Business at the KU School of Business. Professor Bendapudi specialized in the study of consumer behavior in service contexts. Her research deals with customers' willingness and ability to maintain long-term relationships with firms and with the brands and employees that represent them. Her research has been published in top tier journals including the Journal of Academic Medicine, Harvard Business Review, and journal of Marketing, and featured by popular media outlets including the New York Times, CNBC, CNN, MSNBC, WebMD and Fox News Network. She has experience on public and private boards and served as EVP and Chief Customer Officer of Huntington National Bank. Her vision is to ensure that the University of Louisville is a great place to learn, a great place to work, and a great place to invest, because it celebrates diversity, fosters equity, and strives to achieve inclusion.

[See attached flyer for complete 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
**WHAT:** Tornado Hazard Wind Assessment and Reduction Symposium (THWARTS)

**WHEN:** October 14-15, 2019

**WHERE:** University of Illinois at Urbana-Champaign – iHotel and Conference Center.

**WHY:** Better understanding of near-surface tornado wind hazards and impacts has to include a) representation from all relevant disciplines and b) true interaction between everyone performing tornado research.

**WHO:** Focus on wind engineering, severe storm meteorology, social science and structural engineering disciplines, but all tornado-related disciplines are welcome. Special emphasis on young researchers and students. Specific topics include experimentation, modeling/simulation, observation/measurements, and more!

**Key Dates:**

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<tr>
<th>Date</th>
<th>Event</th>
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<tr>
<td>August 26</td>
<td>Abstract Submission and Travel Application Due</td>
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<td>September 9</td>
<td>Notification of Abstract Acceptance</td>
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<td>September 13</td>
<td>Discounted Hotel Rate</td>
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<td>September 15</td>
<td>Early Symposium Registration</td>
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Partial travel funding available for students and early-career researchers.

[https://thwarts.cee.illinois.edu](https://thwarts.cee.illinois.edu)

thwartscontact@gmail.com
“The resources accessible to you all in one place are invaluable. Multiple recruiters, but also multiple graduate students that are available to answer your questions makes it easy to get important information about graduate school.”

Past Student Attendee

**TAKE ADVANTAGE OF:**

- **KEY NETWORKING OPPORTUNITIES**
- **INFORMATIONAL WORKSHOPS**
- **PREMIER GRADUATE SCHOOL FAIR**
- **COMPREHENSIVE INFORMATION REGARDING GRADUATE SCHOOL EDUCATION IN:**
  - ENGINEERING
  - SCIENCE
  - MATH
  - TECHNOLOGY
  - PHARMACEUTICAL SCIENCES
  - RELATED DISCIPLINES

**FREE GRAD FAIR**

**SEPT. 23 • 9:30am-12pm**

PMU Ballrooms • PUID Required

Explore 70+ Universities!

[www.purdue.edu/gradexpo](http://www.purdue.edu/gradexpo)

An equal access/equal opportunity university
Seeking Applicants!

We are now accepting applications for the Jill Hruby Fellowship in National Security Science and Engineering. The Hruby Fellowship is one of Sandia National Laboratories' most prestigious postdoctoral fellowships. This fellowship aims to develop women in the engineering and science fields who are interested in technical leadership careers in national security. Jill Hruby is the first woman to have been appointed director of a large, multidisciplinary national security laboratory and has been a driving force for other women at Sandia and across the country to follow careers in technical leadership.

Jill Hruby Fellows have the opportunity to pursue independent research that supports Sandia's purpose: to develop advanced technologies to ensure global peace. In addition to receiving technical mentorship, Jill Hruby Fellows participate in a unique, prestigious leadership development program. To be considered for this fellowship, applicants must display excellent abilities in scientific and/or engineering research and show clear promise of becoming outstanding leaders. Fellows may work at either of Sandia's principal locations in New Mexico and California. All qualified applicants will be considered for this fellowship. Deadline: November 1 at midnight.

Sandia's competitive wage and benefits package includes an annual salary of $111,200; flexible work arrangements; 11 paid holidays; three weeks of vacation; health, vision, and dental insurance; and a 401(k) savings plan with company match.

Qualifications We Require

- Ph.D. conferred within the past three years or completion of Ph.D. requirements by commencement of appointment - begins October 1
- Evidence of strong academic achievement, excellent technical accomplishment, leadership and ability to team effectively
- No previous postdoctoral appointments at a national laboratory (internships excluded)
- Research in areas relevant to national security
- Ability to obtain and maintain a DOE security clearance, which requires US citizenship

Qualifications We Desire

- Creativity and self-motivation
- Good communication skills
- Interest in management/leadership
- Ability to work in a team-oriented, dynamic environment
- Demonstrated interest and/or experience in service to the nation
- Broad-based background and extensive knowledge in one or more of the following areas: bioscience, computing and information science, engineering sciences, geoscience, materials science, nanotechnology and Microsystems, and radiation effects and high energy density sciences

The Jill Hruby Fellowship is a three-year appointment and normally commences on October 1, although exceptions may be made to accommodate special circumstances.

For more information, please visit: https://tinyurl.com/HrubyFellowship
President Harry S. Truman Fellowship in National Security Science and Engineering

Seeking Applicants!

Sandia National Laboratories is seeking applicants for the President Harry S. Truman Fellowship in National Security Science and Engineering. Candidates for this position are expected to have solved a major scientific or engineering problem in their thesis work or to have provided a new approach or insight to a major problem, as evidenced by a recognized impact in their field.

The Fellowship provides the opportunity for new Ph.D. scientists and engineers to pursue independent research of their own choosing that supports Sandia's national security mission. The fellow is expected to foster creativity and to stimulate explorations at the forefront of science and technology and high-risk, potentially high-value research and development.

Sandia's research focus areas are: bioscience, computing and information science, engineering science, materials science, nanodevices and microsystems, radiation effects and high energy density physics, and geosciences. To learn more about additional R&D programs that support Sandia's mission areas, please visit: sandia.gov/missions

The Truman Fellowship is a three-year appointment. The salary is $111,200 plus benefits and additional funding for the chosen proposal. The deadline to apply is November 1 of each year and the fellowship normally begins on October 1 of the following year.

Requirements:

We invite applications from talented researchers who have:

- Received a PhD within the past 3 years, or will complete all PhD requirements by commencement of appointment (10/1/2020)
- Excellent academic and research qualifications, strong communication skills
- No prior national laboratory postdoc appointment
- (pre-postdoc internships acceptable)
- The ability to thrive in a dynamic, team-oriented environment
- The ability to obtain and maintain a DOE security clearance, which requires US citizenship

For more information, visit: http://sandia.gov/careers/students_postdocs/fellowships/truman_fellowship.html

Apply online: sandia.gov/careers

Click “View all Jobs” Search “Truman Fellowship” or Job ID: 667285

VISION

On behalf of our nation, we anticipate and solve the most challenging problems that threaten security in the 21st century.

MISSION

The synergy and interdependence between our nuclear deterrence mission and broader national security missions forge a robust capability base and empower us to solve complex national security problems.

VALUES

Sandia's five core values inform our daily decisions, shape our performance, and enable us to achieve success as one lab.

- We serve the nation
- We team to deliver with excellence
- We respect each other
- We act with integrity
- We live safe and healthy lives

CIMMS Research Associate – Meteorological Software Developer

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently seeking a Research Associate to collaborate with scientists, instructors and developers at the National Weather Service (NWS) Warning Decision Training Division (WDTD) in Norman, OK, in enhancing the Weather Event Simulator for AWIPS-2 and transitioning the software into AWIPS-2 baseline code.

The duties of this position are:

1) Develop technical expertise with the AWIPS-2 (Advanced Weather Interactive Processing System) software.
2) Develop and add functionality to the Weather Event Simulator software for AWIPS-2 compatibility.
3) Develop the Weather Event Simulator software to enhance utility by NWS field office staff including forecasters, science officers and focal points.
4) Adapt the Weather Event Simulator software for potential use on the NWS operational hardware and software platforms.
5) Acquire skills in operation of Linux and Windows workstations and virtual machines.
6) Participate in experimental warning/forecast exercises and WDTD training workshops.
7) Review technical/professional publications and attend seminars to stay abreast of current developments in meteorological software applications.
8) Perform related duties as assigned.

The minimum qualifications for the position are:

1) A Master’s Degree in Computer Science, Computer Engineering, Meteorology, Atmospheric Science, or related area; or
2) A Bachelor’s Degree in Computer Science, Computer Engineering, Meteorology, Atmospheric Science, or related area and at least three years fulltime related experience.

Emphasis will be placed on applicants with software support and development experience including:

- Strong knowledge of Java, Eclipse, and/or Python
- Basic understanding of relational database design
- Intermediate knowledge of standard query language (SQL) for simple to complex queries
- Strong understanding of Object Oriented Programming
- User Interface Design using tools like SWT

Applicants should identify expertise within any of the following areas: Linux shell scripting or software/hardware support; Service Oriented Architectures or the Spring framework; Hibernate; SWT or Eclipse RCP; PostgreSQL database; Experience with basic computer networking; XML; Eclipse Integrated Development Environment; Project management, teamwork; Oral and written communications.

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

Supervision will be provided by CIMMS staff. Technical oversight will be provided by CIMMS staff, NWS meteorologists, and WDTD management. The incumbent will work under general supervision but is expected to determine action to be taken in handling all but unusual situations. Incumbents in this position are not expected to supervise other employees, but may serve as leaders of technical teams.

The beginning salary will be based on qualifications and experience with full benefits (insurance and retirement) and a generous leave policy provided through The University of Oklahoma (https://hr.ou.edu/). The start date for the position is negotiable.

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

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

JOB REFERENCE: Meteorological Software Development

The University of Oklahoma is an equal opportunity/Affirmative Action employer.
CIMMS Research Scientist – S2S Severe Weather at the Storm Prediction Center

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 NOAA/Storm Prediction Center (SPC) and NOAA/Climate Prediction Center (CPC). This Research Scientist will provide scientific and meteorological expertise, as well as technical support for the development of advanced mesoscale hazardous weather prediction techniques in the subseasonal to seasonal (S2S) timescales. This position will be based at the Storm Prediction Center (SPC) in Norman, OK, within the National Weather Center (NWC), a highly collaborative forecasting, research and academic environment containing a number of NOAA and OU organizations. The incumbent will work directly with development meteorologists and operational forecasters at the SPC and CPC, and will have opportunities to interact with NOAA and academic scientists within the NWC, as well as scientists and forecasters in the severe storms community.

The principal duties of these positions are:

1. Provide scientific and technical expertise in the development, testing, evaluation, and transition to NWS operations of innovative tools and technologies designed to improve the prediction of severe weather for S2S timescales, especially the Week 2 period.

2. As appropriate, contribute to Hazardous Weather Testbed experiments to test and evaluate guidance and products central to SPC core mission requirements relating to severe weather forecasting.

3. As needed, represent CIMMS/SPC by contributing to scientific publications and attending off-site conferences, workshops, symposia and hazardous-weather-related outreach events.

4. Perform related duties as assigned.

The minimum qualifications for the position are:

1. A Ph.D. Degree in Meteorology, Atmospheric Science or related area.

2. Emphasis will be placed on applicants with knowledge and experience in areas of severe weather, numerical weather prediction models/ensemble systems including convection-allowing models, and application of statistical analysis and verification techniques.

Applicants should identify experience in software development including compiled and scripting programming languages, web page development, graphic design/visualization, and Linux (UNIX) environments including AWIPS2/N-AWIPS systems. Excellent oral and written communication skills are highly desired.

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

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  
Attn: SPC S2S  
treinke@ou.edu

The University of Oklahoma is an Equal Opportunity/Affirmative Action employer.
CIMMS Research Associate – Transportation-Related Warnings

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) seeks to fill a 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. This position will start in Fall 2019 to develop 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). This position is located in Norman, Oklahoma.

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)
3. Publicly disseminate results via formal publications and professional conferences
4. Keep abreast of new science in emerging journal articles and at conferences/workshops

The minimum qualifications for the position are:
1. A Master’s Degree in Meteorology, Geography, Civil Engineering, or another related area
2. Experience with computer programming and interest in further development of these skills (most of our products are written in C++, Python, or Fortran)
3. Experience with visualization of meteorological datasets
4. Strong written and verbal communication skills.

Expertise with any of the above skills is not required, but a willingness to tackle new science, the ability to quickly learn new computer-programming skills, and independence in decision making are critical for success in this position. Applicants whose cover letters speak to these things in the context of their previous research experience(s) will be given the strongest consideration.

Supervision will be provided by CIMMS staff. The incumbent is not expected to supervise other employees, but may eventually serve as a science/technical lead and/or supervise students. The beginning salary will be based on qualifications and experience. Standard retirement/health care benefits are included (more information may be found at http://www.hr.ou.edu). The incumbent would ideally start in early Fall 2019, but the starting date is negotiable.

To apply for the position, please forward your resume, cover letter and list of three references to:
Tracy Reinke, Executive Director, Finance and Operations
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
treinke@ou.edu
ATTN: Transportation Applications
CIMMS Research Scientist – Planetary Boundary Layer Modeler

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for an early-career Research Scientist to provide scientific and meteorological expertise in the areas of planetary boundary layer (PBL)/turbulence parameterization schemes for high-resolution numerical modeling in support of the Warn-on-Forecast program at the National Severe Storms Laboratory (NSSL). In addition to PBL modeling expertise, this Research Scientist will also require experience in the evaluation of numerical model output using PBL observations obtained from research platforms like the NSSL Collaborative Lower-Atmosphere Mobile Profiling System or unmanned aircraft systems.

As part of this opportunity, the Research Scientist will explore and develop new modeling approaches for PBL processes related to forecasting severe convective weather to support the NSSL Warn-on-Forecast System. Furthermore, the Research Scientist will explore the potential for new and emerging PBL profiling systems under development in the international community (e.g. water vapor differential absorption lidars) to enhance NSSL’s mission of understanding severe convective weather processes and supporting National Weather Service forecast operations. The incumbent will also propose revised scientific priorities for observing, analyzing, and modeling the PBL in relation to severe convective weather as new knowledge is generated. 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 PBL profiling and research (e.g. OU and NOAA/ESRL/Global Systems Division and Physical Science Division). The position will be based in Norman, OK within the National Weather Center (NWC), a highly collaborative forecasting, research, and academic environment containing a number of NOAA and OU organizations.

The principal duties of this position are:

1. Provide scientific and technical expertise in the development and use of PBL and land surface schemes to advance high-resolution modeling of processes related to convection initiation and severe convective weather.

2. Apply numerical approaches to enhance the representation of storm-scale processes in various geographic locations and environmental regimes at high spatio-temporal resolution.

3. As needed, represent NSSL/CIMMS by contributing to scientific publications and presenting scientific results at professional off-site conferences, workshops, symposia, and hazardous-weather-related outreach events.

The ideal candidate for this position would possess a PhD in meteorology or atmospheric science and have extensive experience in the use, evaluation, and modification of PBL schemes in state of the art numerical weather prediction models (i.e., WRF-ARW, FV3, etc). In addition, knowledge and expertise in areas of ground-based remote sensing, dynamics of the boundary layer, and severe convective weather knowledge is also a plus. Applicants should identify their experience in the
above areas. Experience with field work and leading peer-reviewed publications is especially desirable.

The incumbent will work under general supervision, and is expected to contribute to field efforts as needed, but will work independently and determine his/her own specific research project(s) related to the position description.

The beginning salary for this position will be based on qualifications and experience and will include University benefits. Information on benefits may be found at: http://hr.ou.edu. The start date for the position is negotiable but prior to August 1, 2019.

Appointment to this position is contingent on passing a Department of Commerce/NOAA background check.

To apply, please forward your CV, 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
The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) seeks to fill a Scientific Programmer position to support the National Oceanic and Atmospheric Administration (NOAA) National Severe Storms Laboratory’s (NSSL) Warn-on-Forecast (WoF) research and development program. This position is located in Norman, Oklahoma.

Background:
The WoF program is developing a regional, convective-scale numerical weather prediction (NWP) model-based ensemble data assimilation and prediction system with the goal to increase warning lead times of hazardous weather events. A successful candidate for this position will help develop an experimental WoF system within NOAA’s Unified Forecast umbrella, which will use the stand-alone-regional (SAR) Finite Volume Cubed Sphere (FV3) dynamical core and the Joint Effort for Data Assimilation Integration (JEDI) system. The incumbent will develop new code and/or optimize existing SAR-FV3 and JEDI code for WoF application. This position requires an individual with a strong interest in software development, model building, and a desire to aid in the construction of a software infrastructure that will eventually be used for both research and operations within NOAA and academia. While a candidate will need to be self-directed, he/she will work closely with members of NSSL’s WoF team, scientists and developers from a wide variety of research and operational organizations (e.g., NOAA’s Environmental Modeling Center, other OAR laboratories, and our academic partners) to accomplish the primary job responsibilities listed below. The research and operational working environment here at NSSL within the National Weather Center in Norman, OK will provide the candidate with ample opportunities for career advancement.

Primary Job Responsibilities:
1) Code optimization, development and testing of SAR FV3 model for high-resolution ensemble modeling (e.g., WoF system).
2) Code optimization, development and testing of NSSL’s WoF system using the new JEDI software and the SAR FV3.
3) Development of workflow systems that can be used by the research community for running the SAR FV3 – JEDI WoF system
4) Research and establish the computational requirements for operational implementation of WoF system with our partners at NOAA’s Environmental Modeling Center.

Desired Qualifications:
- A MS degree in Meteorology, Computer Science, Atmospheric Science, Software Engineering, or closely related field with at least 5 years of professional experience OR PhD in one of those areas with at least 2 years of experience as a scientific programmer and researcher.
- Strong computer programming skills with particular emphasis on Fortran, C/C++, Object Oriented Programming and modern scripting languages (Python, NCL, Shell scripting)
- Experience with running NWP models (e.g., FV3, MPAS, WRF-ARW, HWRF) and modifying code within the models.
- Experience with running ensemble data assimilation software (e.g., NOAA’s GSI EnKF, NCAR’s DART system).
- Experience with version control software, especially Git.
- Experience with using cloud computing platforms for HPC or related applications.
- Ability to work and communicate effectively in diverse team environments.

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

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

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

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SAVE THE DATE

Achieving Promotion: You Can Do It!

Conference for Pre-Tenure Women
September 5-6, 2019

Keynote Speaker:
Neeli Bendapudi,
President, University of Louisville

Keynote Title: Authentic Leadership

Neeli Bendapudi is the 18th President of the University of Louisville. She received her Ph.D. in Marketing from the University of Kansas and has taught at The Ohio State University and Texas A&M University. She most recently served as Provost and Executive Vice Chancellor at the University of Kansas, where she had previously been Dean and H.D. Price Professor of Business at the KU School of Business. Professor Bendapudi specializes in the study of consumer behavior in service contexts. Her research deals with customers’ willingness and ability to maintain long-term relationships with firms and with the brands and employees that represent them. Her research has been published in top tier journals including the Journal of Academic Medicine, Harvard Business Review, and Journal of Marketing, and featured by popular media outlets including the New York Times, CNBC, CNN, MSNBC, WebMD and Fox News Network. She has experience on public and private boards and served as EVP and Chief Customer Officer of Huntington National Bank. Her vision is to ensure that the University of Louisville is a great place to learn, a great place to work, and a great place to invest, because it celebrates diversity, fosters equity, and strives to achieve inclusion.

Registration link will be available soon.
The keynote is open to all faculty.
www.purdue.edu/butler