EAPS WEEKLY NEWSLETTER
15 April 2019

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BE SURE TO CHECK OUT ALL OF THE EAPS COMMUNICATIONS MEDIA!

Facebook
Twitter
Department Magazine
Website News

EAPS MEETINGS & EVENTS

SPRING FACULTY MEETINGS
Tuesday, April 16
3:00 PM
HAMP 3201

EAPS Annual Awards Banquet
Monday, April 22, 2019
Buchanan Club, Ross-Ade Pavilion
5:30 PM

CoS Faculty and Staff Award Luncheon
Tuesday, April 30
PMU, North Ballroom
12:00-1:30 PM

EAPS COLLOQUIA
Levandowski Lecture
Jessica Tierney
University of Arizona
Thursday, April 18, 2019
3:30 PM
EE 117
Refreshments after in
HAMP 2108

EAPS DEFENSE
PhD
Bithi De
April 15, 2019
12:30 P.M.
PHYS 238

Sirui Wang
April 19, 2019
1:00 P.M.
HAMP 2117

http://www.eaps.purdue.edu/
**FAMILY WEEKEND STUDENT PLANNING COMMITTEE**

The Parent & Family Connections office is looking to connect with students who would be interested in participating in the Family Weekend Student Planning Committee. Committee members will help to engage families in the Purdue experience. By helping to plan and coordinate events for Family Weekend students will gain leadership and event planning experience among other opportunities. We are excited for students to help dive into the events hosted throughout the weekend and to expand the experience for our Boilermaker families.

Students can apply today on our website – [www.purdue.edu/parentandfamily](http://www.purdue.edu/parentandfamily). The deadline to apply is 11:55pm on Sunday, April 21, 2019.

[See attached flyer for complete information]

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**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.

[Attached is a flyer with additional details]

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**FIFTH ANNUAL MTS SYMPOSIUM**

Purdue is hosting the student-organized, Fifth Midwest Membrane Trafficking and Signaling Symposium on campus on Friday, April 26, 2019. This day-long symposium is the perfect platform to bring together Midwest researchers whose focus is on membrane biology, trafficking and signaling events. Public health and translational research will also be discussed. The symposium includes keynote addresses by Dr. Daniel Lew (Duke University) and by Dr. Belinda Seto (NIH/OD), talks by scientists from the Midwest, and poster/oral presentations by graduate students and post-docs.

We hope many students, faculty, and staff in CoS will take advantage of this opportunity to learn and network. Registration is FREE but limited! To register, please use the following link: [https://purdue.ca1.qualtrics.com/jfe/form/SV_9RJ2n1y5MWe6Q8l](https://purdue.ca1.qualtrics.com/jfe/form/SV_9RJ2n1y5MWe6Q8l).

A detailed agenda and additional information is available on our website [https://www.bio.purdue.edu/mmtss/fifth/index.html](https://www.bio.purdue.edu/mmtss/fifth/index.html).

[Attached is a flyer with this information.]
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](http://www.eaps.purdue.edu/)

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](http://www.eaps.purdue.edu/)

***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.

SOFTWARE ENGINEER II/III

Located in Boulder, Colorado, the National Center for Atmospheric Research (NCAR) is one of the world’s premier scientific institutions, with an internationally recognized staff and research program dedicated to advancing knowledge, providing community-based resources, and building human capacity in the atmospheric and related sciences. NCAR is sponsored by the National Science Foundation (NSF) and managed by the University Corporation for Atmospheric Research (UCAR).

This position is in the Data Assimilation Research Section (DAReS) in the Computational and Information Systems Laboratory (CISL). CISL is responsible for large-scale computing and IT infrastructure at NCAR. DAReS develops and maintains the Data Assimilation Research Testbed (DART), a community tool for ensemble data assimilation. DAReS is a small, collaborative team of software engineers, data assimilation scientists, and physical scientists dedicated to creating and providing the best possible tools to users both inside and outside NCAR. DAReS staff collaborate closely with a diverse group of earth system scientists who are experts on models and observations.

In close collaboration with the rest of the DAReS team, this SE will work on the complete DART software lifecycle. The percentage of effort devoted to each of the specific duties outlined below will depend on the strengths of the candidate and the rest of the team, and may evolve over time.

**Responsibilities:**

Software design, implementation and refactoring: Designs and subsequently implements software to address requirements for NCAR’s DART community in collaboration with NCAR scientists and software engineers.

Support of User Community: Interacts with the user community to resolve problems, augment system functionality, and improve the user experience.

http://www.eaps.purdue.edu/
experience. Contributes to user-focused workshops and tutorials.

Performance profiling and enhancement: Profiles important DART software and modifies codes to enhance performance on available computing platforms.

Documentation: Writes and maintains software documentation and tools for automated documentation. May present results of work at relevant conferences and workshops, and may contribute to publications describing software capabilities and related science results.

Guiding software development process:

Collaborates with team to guide an efficient and effective software development process. Periodically reviews software development practices with a critical mind to suggest new processes, workflows and tools.

Education and Years of Experience:

SE-II: Bachelor's degree in computer-related field and progressive relevant experience, which is typically gained by four to eight years of experience; or equivalent combination of education and experience.

SE-III: Bachelor's degree in computer-related field and extensive and progressive relevant experience, which is typically gained by eight to twelve years of experience; or equivalent combination of education and experience.

Experience in the area of high-performance computing or scientific software engineering desirable but not required.

Experience with data assimilation or earth system models desirable but not required.

Skills and abilities required for all candidates for this position (SE-II & SE-III level):

Strong skills in working effectively with people of diverse backgrounds.

Ability to work collaboratively as a team member.

Demonstrated ability to rapidly master new programming/scripting languages and styles.

Knowledge of code management practices (preferably Git/GitHub).

Fluency in one or more programming languages (Fortran experience at or beyond Fortran 90 desirable but not required).

Working knowledge of parallel software development (preferably including MPI) and instrumentation for high-performance scalable systems.

Demonstrated experience with formal software development processes (for instance Agile).

Good oral and written communication skills in English.

Experience working with geophysical models and/or data assimilation desirable.

Skills required for applicants to qualify for hiring at the SE-III level:

Ability to manage software projects and lead small teams.

May participate in teamwork across organizational boundaries.

May supervise/mentor student assistants or lower level staff.

Ability to author technical reports and publications and present papers at conferences.

May be recognized as a technical resource in the organization and community.

Maintains professional contact with members of the community, industry and sponsors.

Provides technical solutions to a wide range of difficult problems. Solutions are imaginative, thorough, practicable and consistent with organizational objectives.

Link for complete information: https://ucar.silkroad.com/epostings/index.cfm?fuseaction=app.jobInfo&version=1&jobid=218625

GRADUATE STUDENT INTERNATIONAL TRAVEL AWARDS

2019 College of Science Graduate Student International Travel Awards

Application Submission Deadline: 4:00 PM May 31, 2019

For travel between July 1, 2019 and December 31, 2019

~ 2 or 3 awards ranging up to $800 for international travel will be awarded~

Prerequisites:

• must be a full-time PhD student within the Department in the College of Science

http://www.eaps.purdue.edu/
• must be making an oral or poster presentation at an international conference

Priority will be given to:
• travel to make an oral presentation at a conference
• attendance at an interdisciplinary conference
• students who have passed their prelims

To apply, please send electronically as one file:
• CV (2 page limit)
• brief summary of research (1 page limit)
• brief statement of purpose for attending conference specifying whether your presentation is oral or poster
• provide web link to conference
• letter of support from research advisor

Send applications to Robin Sipes at rsipes@purdue.edu

[See attached flyer for complete details]

PROPOSALS REQUESTED FOR DATA SCIENCE EDUCATION ECOSYSTEM

The offices of the Provost and the Executive Vice President for Research and Partnerships announce the spring 2019 Integrative Data Science Education Ecosystem request for proposals. The Data Science Education Ecosystem is a part of the University-wide Integrative Data Science Initiative.

The goal of the Data Science Education Ecosystem is to prepare all Purdue students to invent, innovate and lead in a data-driven world. This will be accomplished not only through curricular and lab activities, but also through learning communities, undergraduate research opportunities, extracurricular opportunities, distinguished guest speakers, and other events that infuse knowledge, skills and abilities about data science.

At the spring 2019 Data Science Education Ecosystem Summit, faculty and staff gathered to share and reflect on what data science education components have been built to date. A list of projects funded by the first-round RFP can be reviewed online.

According to organizers, the purpose of this second-round RFP is to build on the initiatives underway and to fill in areas where gaps exist. Proposed projects should work across departments and colleges. The formation of new or expansion of existing partnerships also is encouraged. Proposals are being accepted through April 22. Budgets may include requests up to $100,000.

More information and specific proposal guidelines are available online.

UCAR NEXT GENERATION FELLOWSHIPS

Each year the University Corporation for Atmospheric Research (UCAR) selects three graduate students from underrepresented communities for fellowships tracks in Earth System Science, Diversity & Inclusion, and Public Policy.

These fellowships offer graduate students the opportunity to learn alongside leaders in their fields. Just as important, these programs bring an infusion of fresh ideas and new perspectives to our organization. Each two-year award provides financial support for graduate school and two summer internships.

THE UCAR NEXT GENERATION FELLOWSHIPS ARE INTENDED FOR GRADUATE STUDENTS:

➢ attending a North American university
➢ from underrepresented populations
➢ holding an undergraduate degree in atmospheric science or a related Earth system science, such as one of the other geosciences, chemistry, computer science, engineering, environmental science, mathematics, meteorology, oceanography, physics, or social science

FOR MORE INFORMATION AND TO APPLY, PLEASE VISIT: https://www.ucar.edu/opportunities/fellowships

These awards are for two school years and two summer internships. Fellows receive $20,000 per school year, plus support during the summer internships. Submission Deadline is June 3, 2019. Awards to be announced August 1, 2019.

[See attached flyer for complete details]
PREPARING FOR AN ACADEMIC CAREER
WORKSHOP

This workshop is designed specifically for graduate students, post-doctoral fellows, and others who are interested in pursuing academic careers in the geosciences. Workshop leaders from a variety of institution types and career paths will provide guidance and information that will help participants to be stronger candidates for academic positions and to succeed in academic jobs. The workshop is part of Earth Educators’ Rendezvous, where participants may engage in additional workshops, panels, and plenary sessions. To apply, visit the Earth Educators Rendezvous website.

100TH ANNIVERSARY OF THE AMS

The American Meteorological Society is celebrating its Centennial Year (formed in 1919). Lots of activities being planned throughout 2019, up to the 100th annual meeting in Boston (home of the AMS) on January 12-16, 2020.

Get on board to celebrate the AMS. Here is a portal to enter: https://www.ametsoc.org/index.cfm/ams100/#stories. Scroll down to read a short clip by someone you may know.

WEATHER SCIENCE RESEARCH LEAD

The Climate Corporation leads the industry in providing digital agriculture solutions for growers to manage their data, as well as to derive insights from their data for maximizing productivity, efficiency and sustainability. We are seeking an exceptional candidate to organize and lead a small Weather Science research team. This role will be responsible for prioritizing and developing a research plan combining existing and novel efforts into a coherent research program focused on incorporating all key aspects of atmospheric science, agronomic practices and environmental characteristics. The successful candidate will be responsible for guiding a team of science experts who can combine atmospheric, environmental and management data using novel modeling frameworks and approaches to improve our understanding of agriculturally limiting factors.

What You Will Do:
• Exploratory data analysis, data cleaning & processing
• Directed and/or independent research to test scientific hypotheses
• Engage with diverse research groups to understand their models and products and develop solutions to meet their data needs
• Evaluate the limitations of existing data sources and provide recommendations to address unmet data needs
• Undertake written & verbal communication with stakeholders in various parts of the organization
• Lead a team focused on both integrating existing models and developing new models; work collaboratively with partner teams to maximize the use of genetic, environmental, and grower management data assets
• Actively contribute to efforts to understand the prospective value of R&D projects in ways that can support portfolio review processes and financial forecasting; track and maintain portfolio of projects and capabilities against company pipeline/portfolio processes
• Serve as the primary point of contact and key science stakeholder to respective counterparts in other business units, including Product, Engineering, and Commercial/Marketing
• Contribute thought leadership, helping establish/execute on the team’s research agenda
• Clearly and effectively communicate research vision, strategy, and outcomes to key stakeholders both internally and externally.

Active areas of research:
• Analysis and interpretation of observations (e.g. satellite, weather stations, radar), and third party products (climate indices, reanalyses, seasonal outlooks)
• Ensemble reconstruction of historical weather from multiple proxies
• Multivariate spatio-temporal stochastic processes
• A combination of physical and statistical models, including statistical forecast calibration and downscaling
• Numerical weather prediction, data assimilation, mesoscale meteorology, ensemble forecasting
Basic Qualifications:
• MS in a quantitative science discipline (e.g. atmospheric sciences, physics, applied mathematics) paired with experience in data science or computationally intensive research
• Demonstrated experience working with diverse weather data, including a high level of expertise with soils and other environmental data
• At least 5 years of post-degree work experience, including industry experience involving management of research programs and at least 1 year of people management experience
• Demonstrated experience translating complex technical concepts to collaborators, decision makers, and non-technical audiences

Preferred Qualifications:
• PhD in Atmospheric Sciences, Computer Science, High-Dimensional Statistics, Applied Math or other physical science involving computationally intensive research
• Strong organizational skills
• Ability and inclination to work in multi-disciplinary environments, and desire to see ideas realized in practice
• Strong drive to learn new topics and skills and to develop innovative products for our customers
• Excellent interpersonal and communication skills

What We Offer:
Our teams are composed of industry experts, top scientists, and talented engineers. The environment is extremely engaging and fast-paced, with dozens of specialties coming together to provide the best possible products and experiences for our customers. We provide competitive salaries and some of the best perks in the industry, including:
• Superb medical, dental, vision, life, disability benefits, and a 401k matching program
• A stocked kitchen with a large assortment of snacks & drinks to get you through the day
• Encouragement to get out of the office and into the field with agents and farmers to see first-hand how our products are being used
• We take part and offer various workshops, conferences, meet-up groups, tech-talks, and hackathons to encourage participation and growth in both community involvement and career development

We also hinge our cultural DNA on these five values:
• Inspire one another
• Innovate in all we do
• Leave a mark on the world
• Find the possible in the impossible
• Be direct and transparent

Job site location: http://jobs.jobvite.com/the-climate-corporation-internal/job/oUFd9fwF

UNDERGRADUATE SUMMER RESEARCH OPPORTUNITIES AT THE SCRIPPS INSTITUTION OF OCEANOGRAPHY

The Scripps Institution of Oceanography is offering summer research experience for undergraduates, spanning fields that include earth sciences, geophysics, and atmospheric science. For a list of these internships, go to: https://scripps.ucsd.edu/undergrad/research-programs/summer-research-opportunities.

PURDUE APPLIED MICORBIOME SCIENCES SYMPOSIUM (MAY 13-13, 2019)

Six world-renowned researchers have agreed to be keynote speakers at the inaugural Microbiome Symposium 2019 at Purdue University.

“Predicting and Controlling Microbiomes for Health, Industry, and the Environment” is the focus of the May 13-14 event at the Beck Agricultural Center.

The three goals of this symposium are to: i) advance the science and translation of managing of microbial ecosystems for the improvement of human health, industrial processes, and environmental sustainability; ii) generate networking opportunities for scientists interested in harnessing microbiomes to build relationships across the University, the Midwest, and the Nation; and iii)
foster Purdue’s emerging, multi-disciplinary applied microbiome research community.

The keynote speakers will be addressing the following six key areas:

- **Plants**: Jan E. Leach (Colorado State, started Phytobiomes Initiative)
- **Insects**: Seth Bordenstein (Vanderbilt, associate director of the Vanderbilt Microbiome Initiative)
- **Soil**: Mary K. Firestone (UC Berkley, member of the National Academy of Sciences)
- **Biotechnology**: Michael Fischbach (Stanford University, NIH Director’s Pioneer Award recipient)
- **Production Animals**: Bryan White (Mayo Clinic and University of Illinois Alliance for Technology-Based Healthcare)
- **Humans**: Liping Zhao (Rutgers University, Eveleigh-Fenton Chair of Applied Microbiology)

The symposium aligns with Purdue’s Giant Leaps celebration, acknowledging the university’s global advancements made in health as part of Purdue’s 150th anniversary. This is one of the four themes of the yearlong celebration’s Ideas Festival, designed to showcase Purdue as an intellectual center solving real-world issues.

For updates on the symposium, and more information about the keynote speakers, visit [https://ag.purdue.edu/microbiome-2019/](https://ag.purdue.edu/microbiome-2019/).

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**CELEBRATIONS**

Marty Frisbee  April 23

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**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](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](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](http://www.EAPS.purdue.edu/events-calendar.html)

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[http://www.eaps.purdue.edu/](http://www.eaps.purdue.edu/)  Page 8 of 8
The warm Pliocene — 3-5 million years ago — was the last time that atmospheric CO2 exceeded its current level of 410 ppm. For this reason, the Pliocene has been closely studied as an analog for near-future climate change. Previous work suggested that the warm Pliocene had a so-called “permanent El Niño” — a dramatic reduction in the east-west sea-surface temperature (SST) gradient across the tropical Pacific akin to an El Niño event. The permanent El Niño is difficult to explain with CO2 forcing alone, leading to hypotheses that exotic feedbacks involving clouds and hurricanes must have been active during the warm Pliocene. In this work, we reanalyzed proxy records of SST during the Pliocene and found that while the SST gradient in the Pacific was reduced, it was not nearly as extreme as previously thought. Climate models can, generally speaking, capture the Pliocene SST changes without exotic forcings. Our new spatial reconstruction of Pliocene SSTs shows a diagnostic pattern of weaker Walker circulation, a well-known response to elevated CO2. We find that cloud feedbacks are likely to amplify this pattern, but that extreme changes in cloud albedo are not needed. The pattern and magnitude of Pliocene warmth is very similar that simulated under low-emissions future scenarios, suggesting a remarkable symmetry between past and near-future climate change. In this sense, the Pliocene is template for the climate change of “now.” Furthermore, the Pliocene confirms that a weakening of Walker circulation, along with associated changes in ocean and atmospheric circulation, should occur as anthropogenic emissions rise.
Seeking students to serve on the
FAMILY WEEKEND
STUDENT PLANNING
COMMITTEE
Purdue Parent & Family Connections office

Join the Parent & Family Connections staff
Students on the Family Weekend Student Planning Committee will assist in engaging families in the Purdue experience. You will gain event planning experience by helping to plan and coordinate Family Weekend events. You will be a knowledge base for families and serve as an ambassador and representative of Purdue University.

More information can be found at www.purdue.edu/parentandfamily
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
Fifth Midwest Membrane Trafficking and Signaling Symposium

A one day symposium to bring together Midwestern experts in membrane biology, trafficking and signaling transduction

**Keynote Speakers**

Cell Biology: Dr. Daniel Lew, Duke University

Public Health: Dr. Belinda Seto, NIH/OD

Talks by researchers from the Midwest area

Oral and poster presentations by graduate students and postdocs

www.bio.purdue.edu/mmtss/fifth/index.html

Date: Friday, April 26, 2019
Time: 8:00 AM – 5:30 PM

Venue: Wilmeth Active Learning Center (WALC)
Location: Purdue University, West Lafayette, IN

Register by April 19, 2019:
https://purdue.ca1.qualtrics.com/jfe/form/SV_9RJ2n1y5MWe6Q8I

For inquiries, please contact Jennifer J. Lee @ lee3100@purdue.edu
SCI 395 GLOBAL SCIENCE EXPERIENCE

- One-on-one weekly mentoring by College of Science personnel
- Customized to student’s level of intercultural competence
- Includes career mentoring
- Assignments encourage meaningful interaction with host culture and other cultures
- 12 modules focused on cultural knowledge (self-awareness, worldview frameworks), cultural attitudes (curiosity, openness), cultural skills (verbal and nonverbal communication, empathy), and teamwork knowledge and skill
- Past pre-/post-assessments demonstrate significant increases in intercultural competence.
- Completion fulfills College of Science Language & Culture Requirement
- Completion waves diversity report on study abroad experience for the Learning Beyond the Classroom Certificate program

COM 30301 SENTIO

- Mentor facilitated group discussions, 4 times per semester
- Reflective assignments
- MOOC-like learning environment
- 20 modules focused on self-awareness, other awareness, emotional resilience, and bridging difference with special attention to power, privilege and micro-aggressions
2019 College of Science
Graduate Student
International Travel Awards

Application Submission Deadline: 4:00 PM May 31, 2019
For travel between July 1, 2019 and December 31, 2019
~ 2 or 3 awards ranging up to $800 for international travel will be awarded~

Prerequisites:
• must be a full-time PhD student within the Department in the College of Science
• must be making an oral or poster presentation at an international conference

Priority will be given to:
• travel to make an oral presentation at a conference
• attendance at an interdisciplinary conference
• students who have passed their prelims

To apply, please send electronically as one file:
• CV (2 page limit)
• brief summary of research (1 page limit)
• brief statement of purpose for attending conference specifying whether your presentation is oral or poster
• provide web link to conference
• letter of support from research advisor

Send applications to Robin Sipes at rsipes@purdue.edu
UCAR NEXT GENERATION FELLOWSHIPS

Each year the University Corporation for Atmospheric Research (UCAR) selects three graduate students from underrepresented communities for fellowships tracks in Earth System Science, Diversity & Inclusion, and Public Policy.

These fellowships offer graduate students the opportunity to learn alongside leaders in their fields. Just as important, these programs bring an infusion of fresh ideas and new perspectives to our organization. Each two-year award provides financial support for graduate school and two summer internships.

THE UCAR NEXT GENERATION FELLOWSHIPS ARE INTENDED FOR GRADUATE STUDENTS:

- attending a North American university
- from underrepresented populations
- holding an undergraduate degree in atmospheric science or a related Earth system science, such as one of the other geosciences, chemistry, computer science, engineering, environmental science, mathematics, meteorology, oceanography, physics, or social science

For more information and to apply, please visit https://www.ucar.edu/opportunities/fellowships

These awards are for two school years and two summer internships.

Fellows receive $20,000 per school year, plus support during the summer internships.

Submission Deadline is June 3, 2019

Awards to be announced August 1, 2019