EAPS WEEKLY NEWSLETTER
17 Jan. 2017 | EAPS on Facebook | EAPS on Twitter

Contents:
Meetings/Events & Dept. News...............................................1
Undergrad/Graduate Student News........................................3
University News........................................................................5

EAPS MEETINGS & EVENTS

CoS SPRING FACULTY MEETINGS
February 14, 2017
April 18, 2017
3:30-4:30 PM
LWSN 1142

EAPS-SPRING FACULTY MEETINGS
January 31, 2017
February 28, 2017
March 28, 2017
May 2, 2017
3:00 PM
HAMP 3201

EAPS AWARDS BANQUET
April 17, 2017
5:30 PM
Ross-Ade Pavilion, Buchanan Club

EAPS ALUMNI ADVISORY BOARD
April 18, 2017
8:30 AM-4:00 PM
HAMP 2201

BLACK AND GOLDEN JUBILEE
September 21-23, 2017

PUBLICATIONS


BLACK AND GOLDEN JUBILEE OPEN FOR REGISTRATION

The Black & Golden Jubilee website is now open for registration. For more information on the event, go to the event website. To register, go to the registration website.

http://www.eaps.purdue.edu/
NOTE FROM THE EAPS LIBRARY

The EAPS library has received a textbook list from the EAPS secretary and I have ordered or placed on Reserve the textbooks that were on that list. I do not need to be notified of these course textbooks unless you have decided to use a different one. Please let me know if you need any additional materials placed on reserve for your class.

Have a great spring semester!

Thank you

Terry Wade, Library Assistant V
twade2@purdue.edu, 765-494-3264

DR MELOSH PRINCIPAL INVESTIGATOR ON NEW HORIZONS GRANT RECIPIENT

The University’s inaugural New Horizons grant – intended to develop new academic areas – has been given to a program for Extraterrestrial Habitat Engineering, for which Dr. Jay Melosh is a principal investigator.

Dr. Melosh was interviewed by WLFI regarding the research program. More information can also be found in the University press release. The team will present their vision for the program at 9 a.m., Friday, Jan. 27, in Room B071, Neil Armstrong Hall.

DR FEUSTEL ASSIGNED TO INTERNATIONAL SPACE STATION

Dr. Andrew Feustel, an EAPS alumnus, has been assigned to his first long-duration mission by NASA. After launching in March 2018, Dr. Feustel will serve as a flight engineer on Expedition 56, and then as commander on Expedition 57.

For more information, watch WLFI’s coverage or read the NASA press release.

DR GARMAN VISITS EAPS

Dr. Karl Garman, an EAPS alumnus, paid a visit to the EAPS department on January 17. Dr. Garman now works for the Federal Aviation Administration as a Project Manager, managing collaboration with academia and other government labs to safely integrate small unmanned aircraft into United States airspace.

Dr. Garman received his Ph.D. from EAPS in 2009, advised by Dr. Paul Shepson, and had this to say about his experience: “Here, we have aeronautical engineering working with analytical chemists working with atmospheric scientists working with practical technicians in the aviation technology program. You had those people that could cross interdisciplinary lines and collaborate and learn from each other and go through those growing pains more quickly and grow the technology more quickly, because the university had a very enlightened attitude towards interdisciplinary research.”

BIRTH ANNOUNCEMENTS

Fallon L. McQuern & Robert D. McQuern IV had a son, Colin Dale McQuern, on Dec. 12, 2016. He weighed 7 lbs. 1 oz. and was 20.5 inches long.
Professors Robin Tanamachi and Daniel Dawson had a son, Paul Masao Dawson, on Jan. 1, 2017.

SIGMA XI POSTER COMPETITION

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

There will be a first prize of $200, provided by Sigma Xi and The Graduate School, and recognition for other outstanding posters in each of the four research areas:
- Graduate Student, Physical Sciences
- Graduate Student, Life Sciences
- Graduate Student, Engineering
- Graduate Student, Behavioral and Social Sciences
- Post-doctoral, Behavioral Sciences
- Post-doctoral, Physical, Life and Engineering Sciences

To participate:

1. Submit an abstract of your research by 11:59 AM, MONDAY February 6, 2017. These will be published in a booklet. Applications, in electronic format, should be submitted to hnzelaz@purdue.edu. Abstracts should be in MS-Word format, no more than 150 words (title and authors not counted in word count).

2. Present a poster at the 2017 SIGMA XI GRADUATE STUDENT RESEARCH AWARDS COMPETITION POSTER SESSION in Stewart Center, Rooms 218A, B, C, D on Tuesday, February 14, 2017. Posters will be setup between 2:30 - 4:30 pm. Presentation and judging is from 6:00 - 9:00 pm. Presenters are requested to hang their posters by 4:30 pm and to be at their posters from 6:00- 8:30 pm to answer questions from the judges. You will provide a three (3) minute presentation about your work to each judge.

3. Posters selected for an award will be displayed at the Annual Sigma Xi Initiation Banquet to be held in the John Purdue Room in Marriott Hall in April (Date tbd). In addition, all award winners and those recognized for Honorable Mention will be invited to attend the banquet in recognition of their outstanding research endeavors. You will also present your poster prior to dinner.

For more information, please see the attached flyer.

FULLY-FUNDED MASTER’S PROGRAM IN TEACHING FROM AMERICAN MUSEUM OF NATURAL HISTORY

The Master of Arts in Teaching (MAT) program at the American Museum of Natural History in New York City offers Earth and space science graduates a chance to make a difference. This teaching fellowship combines coursework, mentoring, and real-world experience to prepare graduates for rewarding careers as middle and high school teachers.

With a sole focus on preparing new Earth science teachers, the MAT program is a full-time, 1.5-month Master’s program that takes place at the museum and in urban partner schools. We seek a student body with diverse life and career

http://www.eaps.purdue.edu/
experience, and the application is open to all candidates meeting the eligibility requirements. All degree candidates will receive free tuition and books and a $30,000 living stipend. In return, candidates commit to teaching in a high-needs school in New York State for four years.

One of the faculty of this degree program is Dr. Denton Ebel, an EAPS alumnus, who is a Division Chair and Curator of Physical Sciences at AMNH. AMNH is currently accepting applicants for the class that will matriculate in June 2017. Contact the program office directly at mat@amnh.org or (212) 313-7464.

---

**NCAR SUMMER INTERNSHIPS IN PARALLEL COMPUTATIONAL SCIENCE**

The SIParCS Program at the National Center for Atmospheric Research is aimed at university students who are interested in pursuing a career in such areas as:

- Application Optimization
- Computer Security and Formal Verification
- Data Science
- Numerical Methods
- Software Engineering
- Supercomputing Systems Operations
- Visualization

The goal of the SIParCS program is to make a long-term, positive impact on the quality and diversity of the workforce needed to use and operate 21st century supercomputers. Graduate students and undergraduate students (who have completed their sophomore year by summer 2017) gain significant hands-on experience in high-performance computing and related fields that use HPC for scientific discovery and modeling.

This program embeds students as summer interns in the Computational and Information Systems Laboratory, an organization within NCAR charged with provisioning supercomputing and data systems to the geosciences research community. The roles of service and research in CISL support NCAR’s broad scientific mission of discovery in the atmospheric and related sciences.

**Application Deadline: February 1, 2017 (4 p.m. MT)**

For more information, go to [https://www2.cisl.ucar.edu/siparcs](https://www2.cisl.ucar.edu/siparcs).

---

**WINTER WEATHER WARNING DECISION MAKING RESEARCH ASSOCIATE POSITION**

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently seeking a Research Associate to collaborate with scientists and instructors at the National Weather Service (NWS) Warning Decision Training Division (WDTD) in Norman, OK, on training for winter weather warning decision making.

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: Winter Weather

For more information, please see the attached flyer.

---

**HAZARDOUS WEATHER TESTBED RESEARCH ASSOCIATE POSITION**

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma (OU) is currently looking for a Research Associate to provide scientific and meteorological expertise, and technical support for annual NOAA/Hazardous Weather Testbed (HWT) Spring Forecasting Experiments (SFEs), and real-time, year-round experimental prediction systems.
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: HWT

Please see attachment for more details.

NASA EARTH AND SPACE SCIENCE FELLOWSHIP (NESSF) PROGRAM

NASA announces a call for graduate fellowship proposals to the NASA Earth and Space Science Fellowship (NESSF) program for the 2017-2018 academic year. This call for fellowship proposals solicits applications from accredited U.S. universities on behalf of individuals pursuing Master of Science (M.Sc.) or Doctoral (Ph.D.) degrees in Earth and space sciences, or related disciplines. The purpose of NESSF is to ensure continued training of a highly qualified workforce in disciplines needed to achieve NASA’s scientific goals. Awards resulting from this competitive selection will be made in the form of training grants to the respective universities.

The deadline for NEW applications is February 1, 2017, and the deadline for RENEWAL applications is March 15, 2017. The NESSF call for proposals and submission instructions are located at the NESSF 17 solicitation index page at http://nspires.nasaprs.com/ - click on "Solicitations" then click on "Open Solicitations" then select the "NESSF17" announcement. Also refer to “Program Specific Questions” and “Frequently Asked Questions” listed under “Other Documents” on the NESSF17 solicitation index page.

All proposals must be submitted in electronic format only through the NASA NSPIRES system. The faculty advisor has an active role in the submission of the fellowship proposal. To use the NSPIRES system, the faculty advisor, the student, and the university must all register. Extended instructions on how to submit an electronic proposal package are posted on the NESSF 17 solicitation index page listed above. You can register in NSPIRES at http://nspires.nasaprs.com/.

For further information contact Claire Macaulay, Program Administrator for NESSF Earth Science Research, Telephone: (202) 358-0151, Email: claire.i.macaulay@nasa.gov or Dolores Holland, Program Administrator for NESSF Heliophysics Research, Planetary Science Research, and Astrophysics Research, Telephone: (202) 358-0734, E-mail: hq-nessf-Space@nasa.gov.

CIMMS RESEARCH ASSOCIATE POSITION

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for a Research Associate to provide leadership, satellite expertise, and meteorological support for the GOES-R Proving Ground effort based at the NOAA/NWS Storm Prediction Center (SPC). The SPC is located at the National Weather Center (NWC) in Norman, OK, a highly collaborative environment containing a number of NOAA and OU organizations, including the National Severe Storms Laboratory, NWS Warning Decision Training Division, NWS Forecast Office, OU School of Meteorology, and OU Center for Analysis and Prediction of Storms. This project will include activities focused to maximize the diagnostic and forecast value of geostationary satellite data and products. The incumbent will interact with NWS operational forecasters to prepare them for new satellite dependent products that will become operationally available after the launch of GOES-R.

Please see attached flier for more information.

UNIVERSITY NEWS

PURDUE CCO SPRING 2017 GRADUATE WORKSHOPS & PRESENTATIONS

Jan. 18 / Criticism: Is it constructive? Giving and receiving feedback effectively  
5:30 PM to 6:30 PM / Deans’ Auditorium, 2nd floor, Pfendler Hall

http://www.eaps.purdue.edu/
Offering and receiving constructive criticism effectively is an important professional skill. Attend this presentation to learn about giving and receiving critical feedback to and from peers, supervisors and supervisees.

See the attached flyer for the full spring schedule.

PURDUE UNIVERSITY LIBRARIES RECEPTION AND EXHIBIT VIEWING

Purdue University Libraries are holding a reception and exhibit viewing titled “Looking Down, Looking Out, and Looking Up: Maps and the Human Experience. This exhibit explores the history, art, and science of maps and their interaction with the people who create and use them. The maps progress from days of “looking down” with traditional aerial maps, “looking out” with the expansion of exploration and technology such as railroads and canals, and “looking up” with star charts, flight plans, and lunar maps. Along with maps, the exhibit will include books, documents, photographs, and artifacts, including surveying tools, cloth maps used by a World War II pilot, and map pins used by Lillian Gilbreth.

The event information is as follows:

Friday, January 27, 2017
2:00 p.m. – 3:00 p.m.
Remarks at 2:30 p.m.

2017 COLLEGIATE LEADERS IN ENVIRONMENTAL HEALTH (CLEH) SUMMER PROGRAM

The Centers for Disease Control and Prevention (CDC), National Center for Environmental Health (NCEH) and the Agency for Toxic Substances and Disease Registry (ATSDR) in Atlanta, Georgia, are accepting applications for their Collegiate Leaders in Environmental Health (CLEH) Summer Program.

Over the course of the summer, fellows will be exposed to a broad overview of environmental public health issues at the federal level. Fellows will participate in a comprehensive program including environmental health project assignments, interaction with federal officials and scientists, and visits to important environmental health sites in and around Atlanta. Other activities include “brown-bag” lunches with CDC staff, as well as attending lectures from prominent environmental health leaders in the Atlanta area. In addition, interns will be able to attend the many seminars offered by CDC during the summer. For examples of past CLEH internship projects, please review at https://www.cdc.gov/nceh/summerinternships/experience.htm.

Qualifications:

• Must be a currently enrolled full-time undergraduate who will be a junior or senior in Fall 2017. Students graduating in spring 2017 are not eligible.
• Minimum cumulative GPA of 3.0 on a 4.0 scale
• Academic major or demonstrated coursework concentration in environmental studies; physical, biological, chemical and/or environmental health to also include emergency preparedness, environmental justice, sustainability, and/or global health environmental studies; environmental, physical, biological chemical and/or social

http://www.eaps.purdue.edu/
sciences; applicants not majoring in one of these areas may be considered.

Ideal candidates would have extra-curricular activities or volunteer work that is related to the field of environmental health or the environment, including holding positions in these organizations or activities. Undergraduate students must show a dedication to environmental and/or health issues via their coursework or extracurricular activities.

For complete eligibility information and instructions to apply, please visit: https://www.zintellect.com/Posting/details/2773; ORISE Posting Number CDC-NCEH-2017-0020. For additional information, contact Marilyn Duffoo, myr4@cdc.gov. Application deadline is January 27, 2017.

2017 GRADUATE ENVIRONMENTAL HEALTH (GEH) SUMMER PROGRAM

The Centers for Disease Control and Prevention (CDC), National Center for Environmental Health (NCEH) and the Agency for Toxic Substances and Disease Registry (ATSDR) in Atlanta, Georgia, are accepting applications for their Graduate Environmental Health (GEH) Summer Program

During this program, students will be engaged in environmental health projects. They will be exposed to a broad overview of environmental health issues at the Federal level and participate in a number of activities during the internship to include reading and helping to guide weekly journal club discussions, attending and participating in weekly subject matter expert (SME) briefings, attending and participating in weekly field trip activities, preparing and presenting on assigned environmental health projects, participating in professional development trainings including career development, communication, leadership and inquiry and analysis. Students will be matched with a project supervisor based on their experience and skill set. For examples of past GEH internship projects, please review at https://www.cdc.gov/nceh/summerinternships/experience.htm

Qualifications:

- Graduate student (enrolled in a Masters or Doctoral program) with an academic major or demonstrated concentration in environmental studies, environment, public health, physical, biological, chemical, medical, and/or social sciences.
- Students enrolled in a doctoral-level clinical degree program (such as MD/DD, DVM, DDS, Pharm D) will also be considered.
- Students who will graduate in spring 2017 are not eligible.
- Minimum cumulative GPA of 3.0 on a 4.0 scale.

Ideal candidates would have extra-curricular activities or volunteer work that is related to the field of environmental health or the environment, including holding positions of leadership in these organizations or activities. Students should have a passion for the environment and an eagerness to learn about the environment's link to human health.

For complete eligibility information and instructions to apply, please visit: https://www.zintellect.com/Posting/details/2775; ORISE Posting Number: CDC-NCEH-2017-0021. For any additional information, please contact Marilyn Duffoo, myr4@cdc.gov. Application deadline February 3, 2017.

BIRTHDAYS

John Cushman
Jan. 19
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 Logan Judy (ljudy@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
2017 GRADUATE STUDENT AND POST-DOCTORAL FELLOWS RESEARCH AWARDS COMPETITION
February 14, 2017
6-9 PM
Stewart 218 A-D

Call for Abstracts / Posters

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

Bring your significant other, and have a very intellectual Valentine’s Day celebration.

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

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

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

To participate:

1. Submit an abstract of your research by 11:59 AM, MONDAY February 6, 2017. These will be published in a booklet. Applications, in electronic format, should be submitted to hnzelaz@purdue.edu. At the end of this document you will find the abstract application and abstract template. Abstracts should be in MS-Word format, no more than 150 words (title and authors not counted in word count).

2. Present a poster at the 2017 SIGMA XI GRADUATE STUDENT RESEARCH AWARDS COMPETITION POSTER SESSION in Stewart Center, Rooms 218A, B, C, D on Tuesday, February 14, 2017. Posters will be setup between 2:30 - 4:30 pm. Presentation and judging is from 6:00 - 9:00 pm. Presenters are requested to hang their posters by 4:30 pm and to be at their posters from 6:00-8:30 pm to answer questions from the judges. You will provide a three (3) minute (No Longer!) presentation about your work to each judge. Please practice your presentation, so that it is no longer than 3 minutes. At the end of this document a sample reviewer-judging sheet is shown to help you prepare a poster and three minute presentation.
3. Posters selected for an award will be displayed at the Annual Sigma Xi Initiation Banquet to be held in the John Purdue Room in Marriott Hall in April (Date tbd). In addition, all award winners and those recognized for Honorable Mention will be invited to attend the banquet in recognition of their outstanding research endeavors. You will also present your poster prior to dinner (more instructions later)

This is an excellent opportunity to learn about the excellence and diversity of scientific research at Purdue as well as to make others aware of your contributions. All graduate students and post-doctoral researchers with appropriate research experiences are urged to participate in this competition.

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

- Submit an abstract in **MS Word format** by 11:59 AM, Monday, **February 6, 2017**. These will be published in a booklet. Forms should be submitted electronically to hnzelaz@purdue.edu. Information about poster preparation is provided on a subsequent page. You will receive confirmation of abstract receipt.

- Present a poster at the **2017 SIGMA XI GRADUATE STUDENT RESEARCH AWARDS COMPETITION POSTER SESSION** in Stewart Center, Rooms 218 A-D on Tuesday February 14, 2017. Rooms will be open from 2:30-4:30 pm (for poster set up and viewing) and 6:00-9:00 pm (for presentation and judging). Presenters are requested to hang their posters by 4:30 pm and to be at their posters from 6:00-8:30 pm to answer questions from judges. We will provide the hardware to place your poster (including push pins).

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

Posters selected for an award will be displayed at the Annual Sigma Xi Initiation Banquet to be held in the John Purdue Room in Marriott Hall in April 2017 (exact date to be announced later). In addition, all award winners and those highlighted for Honorable Mention will be invited to attend the banquet in recognition of their outstanding research endeavors.

By submitting this form electronically, I hereby give my unrestricted permission for the Purdue University Chapter of Sigma Xi to reproduce this professional abstract in the 2017 Graduate Student and Post-Doctoral Research Poster Award Competition abstract booklet. I also hereby certify and attest that I have approval from my Major Professor to submit this abstract, and I am the person specified in the abstract.

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

Please submit this form and your **abstract** in **MS Word (.doc or .docx) format** via email to hnzelaz@purdue.edu on or before 11:59 AM, Monday **February 6, 2017**.

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

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

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

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

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

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

**On Time:** Presenter kept to the expected three-minute time limit for the presentation.

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

Below is a sample review sheet used by the judges.
2017 Sigma Xi Graduate Poster Competition

Judge: ________________

LS = Grad, Life Science  P = Grad, Physical  B = Grad, Beh & Soc Sci  
E = Grad, Eng  PDB = Post_doc behavioral  PDPLE=Post_doc phys, life and eng

Each component is scored on a 20 point scale.

**Excellent (16-20); Good (11-15); Fair (6-10); Poor (1-5)**

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Poster#</th>
<th>Completeness</th>
<th>Clarity</th>
<th>Design</th>
<th>Presentation</th>
<th>On Time</th>
<th>Promise</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td>LS3</td>
<td>18</td>
<td>19</td>
<td>15</td>
<td>16</td>
<td>5</td>
<td>15</td>
<td>88/120</td>
</tr>
</tbody>
</table>

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

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

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

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

**Promise:** The poster clearly explains the need for the research and makes apparent what the results of this research will contribute to the field.
Graduate Student and Post-Doctoral Research
Poster Award Competition
2017

Abstract Submission Form

<table>
<thead>
<tr>
<th>Full Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>College or School</td>
<td></td>
</tr>
<tr>
<td>Department</td>
<td></td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:yourcareeraccountname@purdue.edu">yourcareeraccountname@purdue.edu</a></td>
</tr>
<tr>
<td>Major Professor</td>
<td></td>
</tr>
<tr>
<td>Abstract Title</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area for poster to be judged</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Grad, Physical Sciences</td>
<td>Grad, Engineering</td>
</tr>
<tr>
<td>Grad, Life Sciences</td>
<td>Grad, Beh and Social Sci</td>
</tr>
<tr>
<td>Post-Doctoral Fellow, Beh &amp; Social Sci</td>
<td></td>
</tr>
<tr>
<td>Post-Doctoral Fellow, Phys, Life &amp; Eng Sci</td>
<td></td>
</tr>
</tbody>
</table>

Title of Poster
Author Last Name, First Initial, etc
Department or Academic Unit
e-mail: yourcareeraccount@purdue.edu
Name of faculty sponsor

Abstract text
Research Associate – Winter Weather Warning Decision Making Training

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently seeking a Research Associate to collaborate with scientists and instructors at the National Weather Service (NWS) Warning Decision Training Division (WDTD) in Norman, OK, on training for winter weather warning decision making.

The duties of this position are:

1) Integration of NWS operational warning decision making principles of science, technology, and human factors into support of training development and delivery.

2) Collaborate with WDTD instructors in a project-based environment to develop and deliver training on elements and principles of winter and severe weather forecasting, warning decision making, and Decision Support Services (DSS).

3) Develop technical expertise with AWIPS-2, WSR-88D products and applications, remote sensing technologies including satellites and other meteorological instrumentation, and the warning decision-making process.

4) Network and collaborate with intra-agency partners to incorporate lessons and content into effective training deliverables for our primary audience.

5) Acquire skills in operation of Linux and Windows workstations to support development of simulations and other tools for warning decision-making training.

6) Participate in experimental warning/forecast exercises and WDTD training workshops.

7) Attend meetings and professional conferences to become knowledgeable of new meteorological applications and to interact with the applied-research community.

8) Review technical/professional publications and attend seminars to stay abreast of current developments in meteorological applications.

9) Perform related duties as assigned.

The minimum qualifications for the position are:

1) A Master’s Degree in Meteorology, Atmospheric Science, or related area; or
2) A Bachelor’s Degree in Meteorology, Atmospheric Science, or related area and at least three years’ experience in operational meteorology or applied research.

Primary emphasis will be placed on applicants with experience and interest in high-impact winter weather. Substantial consideration will also be given to those candidates who convey effective communication and networking skills.

Applicants should identify expertise within any of the following areas: experience in teaching/training; operational experience related to winter weather and severe weather forecasting and warning-decision making, winter weather forecasting techniques; warning-related inputs such as radar, satellite, lightning,
NWP (both convective allowing and ensembles); weather analysis software (such as AWIPS); graphic design or illustration; project management/teamwork; oral and written communication, including collaboration tools; Linux (or Unix) operating systems; programming skills (Python, JAVA, Javascript, HTML, HTML5, object oriented programming, GIS-based, web-based, etc); human factors and human performance technology.

Normal working hours will be observed except for occasional irregular hours during data collection, warning/forecast experiments, individual development activities, and 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 salary for this position is competitive and will be based on experience, skills, and knowledge. Information on benefits may be found at http://hr.ou.edu/ Employees/New-Employees-at-OU/OU-Benefits-Overview.

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: Winter Weather
    The University of Oklahoma is an equal opportunity/Affirmative Action employer.
The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma (OU) is currently looking for a Research Associate to provide scientific and meteorological expertise, and technical support for annual NOAA/Hazardous Weather Testbed (HWT) Spring Forecasting Experiments (SFEs), and real-time, year-round experimental prediction systems. A key focus will include development of web-based visualization tools to support/enhance SFE activities and post-experiment analysis and verification of convection-allowing ensembles used in the SFEs. The position will be based at the National Severe Storms Laboratory (NSSL) in Norman, OK within the National Weather Center, a high collaborative forecasting, research, and academic environment containing a number of NOAA and OU organizations. As this unique position will serve the interests of both the NSSL and Storm Prediction Center (SPC), the incumbent will work directly with research scientists at NSSL and development meteorologists/operational forecasters at SPC.

The principal duties of this position are:

1. Enhance and develop web-based visualization of real-time ensemble data for NOAA/HWT SFEs, as well as real-time, year-round systems like the Storm Scale Ensemble of Opportunity (SSEO) and NSSL-WRF.
2. Conduct post-experiment analyses/verification of convection-allowing ensembles from Community Leveraged Unified Ensemble (CLUE) experiments, subjective model evaluations, and other experimental and operational systems used in the SFE.
3. Support, develop, and enhance SFE core activities including acceleration of new tools from research to operations, inspiring new initiatives for operationally relevant research, and identifying and documenting sensitivities and performance of state-of-the-art convection-allowing models and ensembles.
4. As needed, represent CIMMS/NSSL/SPC by contributing to scientific publications and attending off-site conferences, workshops, symposia and hazardous-weather-related outreach events.

The minimum qualifications for the position are:

1. A Master’s Degree in Meteorology, Atmospheric Science, or related area.
2. Emphasis will be place on applicants with knowledge and experience in web design and model visualization, as well as knowledge in severe storms meteorology, numerical weather prediction models/ensemble systems including convection-allowing models and application of statistical techniques for forecast verification.

Excellent oral and written communication and public speaking skills are highly desired, as well as proficiency in Python, and a strong understanding of JavaScript, PHP, CSS stylesheets, and how to implement dynamic data visualizations through D3. Applicants should identify experience in web development, graphic design/visualization, programming and scripting languages, numerical weather prediction, and Linux (Unix) environments including AWIPS/N-AWIPS.

Normal working hours will be observed except for occasional irregular hours during data collection, warning/forecast experiments or workshops conducted at remote sites. CIMMS staff will provide general supervision with technical oversight provided by NSSL and SPC scientific staff and 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.

The beginning salary is commensurate with educational background and experience, with OU benefits. Information on OU benefits can be found at http://hr.ou.edu/Employees/New-Employees-at-OU/OU-Benefits-Overview.

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: HWT

The University of Oklahoma is an Equal Opportunity/Affirmative Action employer.
CIMMS Research Associate at SPC (Satellite Meteorologist)

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for a Research Associate to provide leadership, satellite expertise, and meteorological support for the GOES-R Proving Ground effort based at the NOAA/NWS Storm Prediction Center (SPC). The SPC is located at the National Weather Center (NWC) in Norman, OK, a highly collaborative environment containing a number of NOAA and OU organizations, including the National Severe Storms Laboratory, NWS Warning Decision Training Division, NWS Forecast Office, OU School of Meteorology, and OU Center for Analysis and Prediction of Storms. This project will include activities focused to maximize the diagnostic and forecast value of geostationary satellite data and products. The incumbent will interact with NWS operational forecasters to prepare them for new satellite dependent products that will become operationally available after the launch of GOES-R.

The principal duties of this position are:
1. Serve as a “Satellite Liaison” at the SPC and the Hazardous Weather Testbed (HWT), leading GOES-R Proving Ground efforts on satellite based hazardous weather products and demonstrating the unique and complementary value of satellite information to forecasters;
2. Develop and/or document satellite dependent forecast and analysis tools and training focused on the specific needs of hazardous weather forecasters; up to 20% of time may be used to conduct applied research on GOES-R products applicable to improving severe weather forecasting, nowcasting, or warning decision-making;
3. Test and validate proposed new satellite dependent products and decision aids for forecasters with an emphasis on exploring the value of advanced satellite products for detection and short-term prediction of convective storms and associated hazards;
4. Serve as “implementation expert” for selected planned GOES-R products and their proxies;
5. Participate in HWT experiments including the annual Spring Forecast Experiment serving as the focal point for satellite centered activities;
6. Provide satellite expertise to the logistical support of any field experiments headquartered out of the National Weather Center;
7. Bridge satellite-related activities between the Warn-on-Forecast program and the NWS and NESDIS.
8. Represent the GOES-R effort within the HWT by contributing to formal scientific publications, and/or attending off-site conferences, symposia and hazardous weather related outreach events;
9. Develop synergy and shared accomplishments with the NOAA Testbeds and the GOES-R Proving Grounds collocated with the Aviation Weather Center in Kansas City, MO, the NESDIS Satellite Analysis Branch-Weather Prediction Center-Ocean Prediction Center in College Park, MD, and the NWS OCONUS Regional Headquarters in Anchorage, AK and Honolulu, HI.
10. Enhance collaborations with the Cooperative Institute for Meteorological Satellite Studies/University of Wisconsin, Cooperative Institute for Research into the Atmosphere/Colorado State University, and the NASA/Short-term Prediction Research and Prediction Center to test, evaluate, and/or provide feedback on new satellite-based tools and products related to convective storm and fire weather applications.
11. Perform related duties as assigned.

The minimum qualifications for the position are:
1. A Master’s or PhD Degree in Meteorology, Atmospheric Science or related area and at least one year experience in operational meteorology or applied research; additional post-graduate education may be substituted for experience.
2. Emphasis will be placed on applicants with considerable experience in satellite meteorology, and its application to hazardous weather prediction, including deep convection, high resolution numerical models, and ensemble prediction systems.
Applicants should identify their demonstrated expertise with Satellite Meteorology and any of the following areas: Severe Thunderstorms; Numerical Modeling; Ensemble Systems and Probabilistic Forecasting; Warning Decision Making; and Fire Weather Meteorology. Excellent oral and written communication skills are highly desired and a strong ability to work in a collaborative team environment is needed for the position. Please describe experience with Linux (or UNIX) operating systems, software skills including programming and scripting languages, web page development, graphic design or illustration, and AWIPS2/N-AWIPS workstations.

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

The new hire will be employed by CIMMS 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 is expected to serve as a leader of scientific or technical experiments, groups, or teams; therefore strong teamwork and leadership skills are necessary. The salary for this position is competitive and will be based on experience, skills, and knowledge. Information on University benefits may be found at http://hr.ou.edu/Employees/New-Employees-at-OU/OU-Benefits-Overview.

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: GOES-R

*The University of Oklahoma is an Equal Opportunity/Affirmative Action employer.*
Spring 2017 Graduate Workshops & Presentations

Jan. 18 / Criticism: Is it constructive? Giving and receiving feedback effectively
5:30 PM to 6:30 PM / Deans’ Auditorium, 2nd floor, Pfendler Hall
Offering and receiving constructive criticism effectively is an important professional skill. Attend this presentation to learn about giving and receiving critical feedback to and from peers, supervisors and supervisees.

Jan. 24 / Maintaining work-life balance in graduate school
3:30 PM to 4:30 PM / Room 105AB, Graduate Student Center / Presented by Jennifer Walsh, CAPS
“Work-life balance” isn’t a popular catchphrase or an unattainable goal. It is a necessary skill, and one you will need throughout your lifetime! Attend this presentation by Jennifer Walsh, M.A., LMHC, a Staff Therapist with CAPS, to learn how to maintain your mental, physical, personal and social health while succeeding in your academic and professional roles.

Jan. 26 / Make LinkedIn work for you!
5:30 PM to 6:30 PM / Deans’ Auditorium, 2nd floor, Pfendler Hall
Use LinkedIn to maximize your chances of career success. Attend this presentation to learn why you should be on LinkedIn, how to network with alumni and other groups, search for jobs, and get the most out of this resource.

Jan. 31 / Convert your CV into a resume
5:30 PM to 6:30 PM / Deans’ Auditorium, 2nd floor, Pfendler Hall
What are the differences between the purpose, form and content of CVs and resumes? Convert your CV into a resume, improve an existing resume, and learn about resume do’s and don’ts. Bring a copy of your document(s) to workshop or peer review.

Feb. 1/ Elevator pitch and networking
5:30 PM to 6:30 PM / Deans’ Auditorium, 2nd floor, Pfendler Hall
Attend this workshop to learn about networking strategies, how to develop your personal brand, and refine and practice your elevator pitch.

Feb. 2 / Ace your interview!
5:30 PM to 6:30 PM / PGSC Room 105AB, Graduate Student Center
Develop and refine interviewing skills, whether the interview is over the phone or Skype or in person. Learn how to prepare for it (research and strategies), and learn ideal professional etiquette during and after your interview.

Feb. 21 / Negotiation skills
5:30 PM to 6:30 PM / PGSC Room 105AB, Graduate Student Center
Attend this presentation to learn how to evaluate and negotiate an offer! Understand the evaluation and negotiation process, the critical questions to address, and possible factors for consideration as you compare offers and negotiate the terms of a job offer.
VII EARTH SCIENCES CONVENTION
EXHIBITION OF PRODUCTS, NEW TECHNOLOGIES AND SERVICES

XII Geology Congress (GEOLOGIA´2017)
IX Geophysics Congress (GEOFISICA´2017)
VII Mining Congress (MINERIA´2017)
VI Oil and Gas Congress (PETROGAS´2017)
XIII Informatics and Geosciences Congress (GEOINFO´2017)

"Geosciences at services of Society and Development"

The Cuban Geological Society (SCG) is pleased to invite scientists, professionals, technicians and university students of Geology, Geophysics, Mining and related Geosciences, to participate in the VII Earth Sciences Convention, and Exhibition of Products, New Technologies and Services, to be held at the International Conference Center of Havana, Cuba on April 3-7, 2017.

The convention welcomes presentations about Cuba, the Caribbean and other regions or in general about the geology, geophysics and mining experiences in the search and management of natural resources, including minerals (metals, industrial), water, oil and gas, construction, earthquake research and other geohazards, education of geosciences; as well as any other related to the sustainable exploitation of natural resources.

We invite professional societies, institutions and non-government organizations to organize workshops, round tables and meetings during the Convention.

Dr. Manuel A. Iturralde Vinient
President of the Cuban Geological Society

www.scg.cu; www.cubacienciasdelatierra.com
geociencias@mnhnc.inf.cu