EAPS MEETINGS & EVENTS

CoS SPRING FACULTY MEETING SCHEDULE
Apr. 19, 2016
LWSN 1142
3:30-4:30 PM

EAPS SPRING FACULTY MEETING SCHEDULE
Mar. 22nd, Apr. 12th, 2016
HAMP 3201
3:00-4:30 PM

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LPSC 2016
March 21-25, 2016
The Woodlands, Texas

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PH.D. DEFENSE-ROBY DOUILY
March 23, 2016
HAMP 3214
3:00 PM
Advisor: Andrew Freed

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EAPS AWARDS BANQUET
April 18, 2016
Buchanan Club of Ross-Ade Pavilion
Reception: 5:30 PM
Dinner at 6:00 PM

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ALUMNI ADVISORY BOARD MEETING
April 19, 2016
HAMP 2201

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DEAN’S VISIT TO DEPARTMENT
April 21, 2016
1:30 - 4:00 PM

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EAPS FACULTY & STAFF FALL RETREAT
August 18, 2016
Beck Ag Center, Rm 111
8:30 AM – 4:00 PM

EAPS FALL WELCOME BACK PICNIC
August 18, 2016
Happy Hollow Park, Shelter 1
4:30 – 7:00 PM

EAPS COLLOQUIA

Oliver Boyd, United States Geological Survey
“Seismic Hazard and Geodesy in the Mew Madrid Seismic”

Thursday, March 24, 2016
3:30 PM
HAMP 1252

Mary M. Glackin, The Weather Company, An IBM Business
“Big data, Internet of things, Cognitive Computing…How has weather data come to be at the hub of it all?”

Thursday, March 31, 2016
1:30-2:30 PM
LWSN 1142

UNDERGRADUATE AND GRADUATE STUDENT INFORMATION

DISCUSSION ON INVOTATION

Dr. Kingsley Chin, surgeon, venture capital investor, and entrepreneur presenting to graduate and PhD students interested in innovation and entrepreneurship on Thursday, March 24th from 5-7 pm at the Anvil, 320 North St, West Lafayette. RSVP to Greg Meyer, gpmeyer@purdue.edu.

GRADUATE THESIS COMPETITON

The Graduate School is hosting its annual Three Minute Thesis (3MT) Competition April 6th. Cash prizes will be awarded to graduate students who are the Winner, Runner-
up, and the People’s Choice Award. For questions, contact: Devona Gangwer at gangwerd@purdue.edu

Register by March 25, 2016 at https://www.purdue.edu/gradschool/student/3mt.html

18TH NATIONAL SCHOOL ON NEUTRON AND X-RAY SCATTERING

Graduate students at North American universities are invited to apply to attend the 18th National School on Neutron and X-ray Scattering, held at Argonne and Oak Ridge National Labs from July 30 - August 12, 2016. This school is designed to introduce students to the capabilities available at U.S. neutron and x-ray user facilities and pays for students’ travel, meals and lodging costs.

Lectures, presented by researchers from academia, industry, and national laboratories, include basic tutorials on the principles of neutron and x-ray scattering theory, the characteristics of neutron and synchrotron sources, as well as seminars on the application of scattering methods to a variety of scientific subjects. As part of the school, students also conduct a series of short experiments to provide some hands-on experience using instruments at neutron and synchrotron sources, both at Argonne’s Advanced Photon Source (August 7-12), and Oak Ridge’s Spallation Neutron Source and High Flux Isotope Reactor facilities (July 30-August 6). An informational flyer can be found at: https://www1.aps.anl.gov/sites/default/files/NXSflyer2016_0.pdf.

How to Apply: Applicants are encouraged to register electronically through the website at http://aps.anl.gov/nx.

Applications must be submitted by April 4. The application process is quite competitive and requires submission of evaluation letters from among the student’s advisor, department chair and other professors. Complete program and application details can be found at https://www1.aps.anl.gov/nx and at http://neutrons.ornl.gov/nxs/.

SUMMER REGISTRATION RESEARCH HOURS CHANGE

There has been a change in the registration of Summer research hours (EAPS 69800 and EAPS 69900). Research credits will now cover all three modules instead of just the second and third. Summer session now begins May 16.

- It’s very important that all graduate students conducting research – on or off campus – be appropriately registered. The number of 69800 and 69900 credits taken during the summer should reflect a graduate student’s research and writing efforts.
- EAPS 69800 and 69900 are scheduled from May 16 through August 2.
- A maximum of nine (9) credits taken during Summer Session are permitted to fulfill graduation requirements.
- Graduate staff must be registered for at least three (3) credits in order to hold their assistantships (i.e., if you are being paid, you must be registered).

As during the Fall/Spring semesters, a Form 23 is required in order to register for research hours. Failure to register by May 16 will invoke a $200 late registration fee. If you have questions contact Kathy Kincade at kkincade@purdue.edu

MICROSOFT WORD FOR THESIS WRITERS

These courses in March provide an overview of MS Word features that will help you quickly and easily format a thesis or dissertation meeting Purdue Graduate School requirements. Contact Ashlee Messersmith at amiley@purdue.edu with questions. See attached flyer dates and times. Registration is required at: https://goo.gl/X51tEQ

2016 CSU SACRAMENTO-GEOLGY FIELD CAMP

Spring 2016 field course open to senior geology majors. Note that the entire class is conducted from June 1-July 10, 2016. Applications form is available at www.csus.edu/geology. Email application PDF and materials to geology@csus.edu (cc: hausbac@csus.edu) or mail to: Geology 188 Application c/o Geology Department California State University, Sacramento 6000 J Street Sacramento, CA 95819-6043

See attached flyer for more information, schedule, fees, and deadlines. Please contact Brian Hausck at hausck@cusu.edu if you have questions.

SHORT TERM STUDY ABROAD PROGRAMS

The GREEN Program offers accredited 8-10 day programs which take students to epicenters of clean tech, sustainability, and innovative industries. Programs available winter, summer, or spring break. See attached flyer.

- Engage in hands-on, experiential education with industry experts and professionals
- Gain behind-the-scenes access to innovative clean energy facilities and sustainability projects
- Supercharge resumes with a global perspective and unique cultural experience
- Network and develop relationships with powerhouse student leaders and professionals
- Bridge the gap between traditional textbook learning and real-time industry insight
• Participate on world-class bucket list adventure excursions
• Earn an academic transcript for transfer credit short term abroad programs for
• future clean energy & sustainability leaders

Apply: www.thegreenprogram.com

2016 NCERA-217/ADMS Meeting

Purdue University will be hosting a major regional meeting on agricultural drainage management on March 29-30, and we invite your participation if you are interested in hearing current research and discussing implementation strategies around drainage issues.

Researchers from eight states will present in the morning, and state and federal agency personnel will discuss implementation in the afternoon. Registration is $60 or $30 for students, which includes lunch and an evening reception. We also invite the submission of posters for the evening poster session/reception. Deadline for submitting a poster and for registering is March 23. https://goo.gl/NHj8bs

2016 CROSSROADS GEOLOGY CONFERENCE

The student members of the Rho chapter of Sigma Gamma Epsilon at Indiana University would like to extend a formal invitation to participate in the 16th annual Crossroads Geology Conference, April 1 & 2, 2016 at Indiana University in Bloomington.

Crossroads is a student-organized event featuring research presentations by graduate and undergraduate students across the Midwest. This conference is open to any student in earth, atmospheric, or planetary science to present their research. Students from other fields, such as archaeology, physics, or anthropology, are also welcome to present research relating to geological sciences.

Crossroads is free to all students and is an excellent opportunity to interact with judges from a variety of industry and academic fields. Awards will be presented to top oral and poster presentations for undergraduate and graduate students. In addition, students are encouraged to participate in the networking event, career panel discussion, and the campus tour exploring the geology of Indiana University building stones. Breakfast and lunch are provided on Friday and Saturday as well as appetizers during the networking social Friday evening.

Abstract templates are located on the Crossroads website along with submission information. Abstracts and resumes are due March 23rd. If you are interested in attending the conference and would like a student host to house you please let us know and we will attempt to find a host for you.

Additional information available at http://www.indiana.edu/~sgeweb1/

For additional inquiries contact crossroadsgeologyconference@gmail.com

SUMMER 3-CREDIT FIELD COURSE OPPORTUNITIES WITH ECOSYSTEM FIELD STUDIES!

Caribbean Ecosystem Field Studies - Study, snorkel & SCUBA dive along the Caribbean coast of Mexico from May 21- June 9

Colorado Ecosystem Field Studies – Study, camp, & hike in the Colorado Rocky Mountains from June 21 - July 10 or July 18- August 6

An opportunity to apply classroom & textbook learning while immersed in an incredible ecosystem setting! Gain valuable career skills in hands-on ecosystem field research. Earn 3 undergraduate transfer credits. Also offering post-course, extended credit options of Independent Research & Conservation Internship

Open to students from all universities & majors. Accredited by the University of Montana at Missoula’s Environmental Studies. Program: ENST 391- for 3 undergraduate semester transfer credits.

For all course information visit the course website: www.EcoFS.org or see the attached flyer.

Direct any further questions to Professor Steve Johnson, Course Director at steve@EcoFS.org

MERIT-BASED SUPPORT TO GRADUATE STUDENTS

The EAPS Department provides the opportunity for merit-based support to graduate students to present their research at professional conferences. The maximum yearly amount of department support is $400 per graduate student (each fiscal year). Submit your form to Kathy Kincade (Room 2169D/HAMP) no later than one month prior to the start of the conference you plan to attend. Requests after the fact or after that timeframe will not be accepted.

ENVIRONMENTAL EDUCATION WORKING GROUP, C4E CALLOUT

The Environmental Education Working Group, C4E, is an interdisciplinary group of Purdue faculty and staff interested in informal and k-12 environmental education. If you have a desire to collaborate in promoting and supporting environmental education in Indiana, please come to the meet and greet session. See the flyer for additional information or contact Dan Shepardson at dshep@purdue.edu

Thursday, April 7, 2016
3:00 p.m. - 4:30 p.m.
MANN 203
COEUSLITE IRB TRAINING FOR INVESTIGATORS AT WL CAMPUS

CoeusLite training sessions for Purdue research faculty and staff are scheduled at the end of March. Human Research Protection Program (HRPP) and Coeus staff will demonstrate how to submit a new Institutional Research Board (IRB) protocol application through CoeusLite, followed by a question-and-answer session and one-to-one assistance on submissions.

The training workshops are scheduled as follows:
March 24 (TH): 8:30-11 a.m., Hall for Discovery and Learning Research, Room 143AB.
March 28 (M): 1-3:30 p.m., Lawson Computer Science Building, Room B151.
Registration is needed: https://goo.gl/YdkaLu to register for CoeusLite IRB trainings.

INTERDISCIPLINARY COMPUTATIONAL SCIENCE AND ENGINEERING CONFERENCE (CSESC 2016)

This conference highlights the breadth of computational science and engineering research that is being done across the different departments. It allows students to see how the modeling and numerical techniques are being applied to other disciplines. Keynote speaker is Prof. Michael J. Miksis, Northwestern University. His talk is titled “Dynamics of Complex Interfaces”. Find additional information and register at: https://sites.google.com/site/purdue/siam/cse2016

Friday: April 8, 2016 from 9 – 5 pm in MANN & MRGN

OTHER NEWS

14TH ANNUAL GREAT LAKES METEOROLOGY CONFERENCE

The conference will be at Valparaiso University on April 2, 2016. The Keynote speaker is Dr. Bill Lapenta, Director of NOAA’s National Center for Environmental Prediction. Topics for the event include: lake effect snow research, meteorology in the energy sector, communications during severe weather, GOES-R, and much more. Registration cost is $75. For more information, please see the attached flyer or contact valpo.ams.nwa@valpo.edu

SUMMER WORKSHOP IN MATHEMATICAL MODELING OF EARTH'S DYNAMIC SYSTEMS

This workshop will be an intense, hands-on introduction to the creation and use of numerical models as a method for investigating the dynamics of Earth systems. Participants will learn how to translate their understanding of Earth processes into systems of differential equations, and solve them to test hypotheses concerning both modern and ancient systems. In addition, participants will learn how to apply and evaluate selected existing Earth system models. The short course is open to graduate students and faculty. The event is from July 31-Aug 5, 2016 in University Park, PA. See the attached flyer for additional details and registration information.

JOBS

MMCC SUMMER INTERNSHIP POSITIONS

Intern positions available for the Midwestern Regional Climate Center. They are looking to fill positions for a Climatologist and Climatologist/Computer Programmer. This hourly position is from May 31-Aug. 19, 2016.

Interested applicants should email cover letter and resume no later than Monday, March 28, 2016 to Beth Hall, Director MRCC Illinois State Water Survey at bethhall@illinois.edu. See attached flyer for additional information.

RESEARCH GEOLOGIST (SURFICIAL GEOLOGIST) AT INDIANA GEOLOGICAL SURVEY

The Indiana Geological Survey, a research institute of Indiana University, seeks applications for a research geologist (surficial geologist) to perform geologic mapping and basic and applied research related to the sedimentology, stratigraphy, and depositional processes of the unconsolidated deposits of the State of Indiana. Applications due by April 28, 2016. Apply at: http://jobs.iu.edu Posting number 00817P

POST-DOCTORAL POSITIONS AT UNIV OF OK

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks to fill 2 Post-Doctoral Research Associate positions for its collaborative research as a Cooperative Institute with the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL) in Norman, Oklahoma. See attached flyers for additional 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 Fallon (fmcquern@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.html.

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at http://www.EAPS.purdue.edu/events-calendar.html
The New Madrid seismic zone (NMSZ) in the central United States has been the host of several major earthquake sequences over the last several thousand years. Most recently, three ~M7+ earthquakes occurred over a two month period in the winter of 1811–1812. Thrust events on the Reelfoot fault have been identified as the location for at least one of the large events in 1812 and 1450; sand blow and subsurface geophysical imaging evidence show that other large events have occurred, possibly on the Cottonwood Grove fault, Bootheel lineament, and the New Madrid north fault within the NMSZ and at other locations nearby but outside the NMSZ. Proposed magnitudes of the three large New Madrid events range from 6.6 to 8.4, and return periods range from 160 to 10,000 or more years; magnitudes of 6.6 to 8.0 and return periods of 166 to 50,000 years are implemented in the USGS National Seismic Hazard model. Estimates of earthquake magnitude and return period are critical to seismic hazard analysis and inferring seismic risk. Earthquake magnitudes and return periods also affect the costs associated with adopting various levels of earthquake resistant construction.

Present-day ground deformation in the NMSZ can provide some insight into the recurrence of large earthquakes and help refine estimates of seismic hazard. We analyze 15 years of ground motion data from the GPS Array of Middle America, which span the NMSZ and have operated since ~2000. We model the motions with several deformation mechanisms including: (1) creep on subsurface dislocations; (2) postseismic frictional afterslip and viscoelastic relaxation from the 1811–1812 and 1450 earthquakes in the NMSZ; and (3) regional strain. In agreement with previous studies, a dislocation presently creeping at about 4 mm/yr between 12 and 20 km depth along the downdip extension of the Reelfoot fault reproduces the observations well and, if steady over time, is consistent with a 500-yr return period of a M7.3 earthquake. However, we find that a dynamic model of postseismic frictional afterslip from the 1450 and February 1812 Reelfoot fault events can also explain this creep, which complicates the forecasting of future earthquakes. Regional compressive strain across the NMSZ is found to be less than 3×10^{-9}/yr, implying on average, very long return periods of >10,000 years for large M7+ earthquakes. If much of the present-day surface deformation results from afterslip, it is likely that many of the earthquakes we see today in the NMSZ are aftershocks from the 1811—1812 New Madrid earthquakes. Our results are consistent with models of intraplate earthquake clustering and the geologic history of earthquakes in the NMSZ that suggests major earthquakes are marked by periods of increased activity separated by extended periods of quiescence. Within this framework we conclude that the NMSZ is currently in an active phase, capable of generating M7+ earthquakes every 500 years. The next step is to apply our results to physically based clustering models to estimate the probability that the NMSZ continues to be in an active phase.
Big data, Internet of things, Cognitive Computing…
How has weather data come to be at the hub of it all?

Mary M. Glackin
Senior VP, Public Private Partnerships
Director, Science and Forecast Operations
The Weather Company, An IBM Business

Thursday, March 31, 2016
1:30-2:30PM, LWSN 1142

ABSTRACT: Building on decades of research in atmospheric and related sciences, today’s accurate weather forecasts are being used to meet demands of consumers and business globally. The value of an accurate forecast is only unlocked when combined with other data sets to provide the insight needed for effective action. This talk will provide a high level overview of The Weather Company’s approach to meeting consumer and business demands for actionable information. It will highlight the technologies employed and talk about the skills needed to drive this business and identify future trends.

BIO: Mary Glackin oversees The Weather Company’s relationships with members of the weather enterprise, including government agencies, academia, and other private sector weather providers. Glackin has had a long and distinguished career in public service, including a five-year tenure as deputy undersecretary of Commerce for NOAA operations.

EVENT CONTACT: EAPS Professor Wen-wen Tung (wwtung@purdue.edu)
Announcing the 2016 CSU Sacramento - Geology Field Camp (Geology 188)

Our course is a Spring 2016 offering, but note that the entire class is conducted from June 1 to July 10, 2016. Therefore, it would be very easy for students from other universities to take this course. Students at CSU campuses can apply for the course on their own campus through Intrasystem Concurrent Enrollment. In this system the student pays Spring semester tuition at their home campus and pays no tuition to the Sacramento campus. The only additional fee is the standard student field camp fee of $2850 paid by all CSU students (both from the Sacramento and any other CSU campus).

We are also hoping to allow students from non-CSU campuses to apply. For those students please fill out the application form for “2016 Geology 188 Advanced Geologic Mapping” and send it in. We will give you further instruction on enrollment as that information becomes available.

**Directions for Non-CSUS students interested in the Sacramento Geology Field Camp 2016:**

Please apply by sending the application form and the Intrasystem Concurrent Enrollment form (both fully filled-out) to the Geology Dept. Office; to this address:

Geology 188 Application  
c/o Geology Department  
California State University, Sacramento  
6000 J Street  
Sacramento, CA  95819-6043

Alternatively, you may scan your application material to pdf and then email to [geology@csus.edu](mailto:geology@csus.edu).  
(Also please cc: [hausback@csus.edu](mailto:hausback@csus.edu))

No fees or deposits are needed at this time. If your course application is successful we will contact you and let you know how to pay the student course fee of $2850.

Keep in mind that the camp will begin on June 1, 2016 and we are in Sacramento for the first week of the course. You will be required to attend these lab sessions so you will need to find local accommodations for that period of time. Any accommodations for those initial days of the course are at your own expense. You might consider staying with family or friends that you might have in the Sacramento area.

We anticipate enrolling 12 or more non-CSUS students in the 2016 course but will not have exact numbers or results of your application until late January, at the earliest.

*Enrollment will remain open until the course is full.*
For Purdue grad and PhD students interested in innovation and entrepreneurship

BURTON D. MORGAN CENTER FOR ENTREPRENEURSHIP presents

DISCUSSION ON INNOVATION

Dr. Kingsley Chin
surgeon, venture capital investor, entrepreneur

Thursday, March 24th, 5-7pm
The Anvil, 320 North St.

RSVP/contact: Greg Meyer, gpmeyer@purdue.edu
Free food for those who RSVP
INTERDISCIPLINARY COMPUTATIONAL SCIENCE AND ENGINEERING CONFERENCE (CSESC 2016)

Speaker: Prof. Michael J. Miksis, Northwestern University

Talk: Dynamics of Complex Interfaces

• This conference highlights the breadth of computational science and engineering research that is being done across the different departments.

• It allows students to see how the modeling and numerical techniques are being applied to other disciplines.

April 8th, 2016 (9 am – 5 pm)

Mann Hall and the Burton D. Morgan Center for Entrepreneurship

Purdue University, West Lafayette, IN

CONTACT INFORMATION

Nicolas Guarin-Zapata,
President <nguarin@purdue.edu>

Lidia Mrad,
Advertisement Chair <lmrad@purdue.edu>
MRCC Summer Intern-Climatologist

Position: Student Hourly

Salary: $12/hour  40 hours/week

Availability: May 31, 2016-August 19, 2016

Primary Function of Position: To serve in a support role within the service and research-based environment at the Midwestern Regional Climate Center (MRCC).

Duties & Responsibilities: This position is designed to expose the intern to the range of activities within the Midwestern Regional Climate Center. The intern will assist MRCC climatologists with service activities including responding to data and information requests in the MRCC service office as well as work on applied climate research projects.

Qualifications

Education: Currently (2015-2016 school year) enrolled as a sophomore or junior majoring in the atmospheric sciences or related field. A strong interest in climatology is preferred.

Experience: Strong communication skills are required for this climate services environment. Experience with word processing and spreadsheet software is also required. Experience in computer programming, scripting and statistical packages such as Unix, Perl and Python is encouraged.

Knowledge: Word and Excel.

Contact Information: Letters and resumes submitted electronically via email must include the applicant's last name as part of the file name. Interested applicants should email cover letter and resume no later than Monday, March 28, 2016 to:

Beth Hall, Director MRCC
Illinois State Water Survey
bethhall@illinois.edu

The University of Illinois is an Affirmative Action/Equal Opportunity Employer
www.inclusiveillinois.illinois.edu
MRCC Summer Intern-Climatologist/Computer Programmer

Position: Student Hourly

Salary: $12/hour 40 hours/week

Availability: May 31, 2016-August 19, 2016

Primary Function of Position: This position is designed to expose the intern to the range of programming needs of the Midwestern Regional Climate Center (MRCC). To serve in a support role within the service and research-based environment at the Midwestern Regional Climate Center (MRCC) with computer programming assistance with MRCC data.

Duties & Responsibilities: The intern will assist MRCC scientists with the modification and development of computer programs and scripts to gain exposure to online tool development and research methods that accesses large atmospheric datasets. Ability to communicate effectively within a team environment is required.

Qualifications
Education: Currently enrolled undergraduate or graduate student majoring in computer sciences, atmospheric sciences, or related field. Programming experience with Perl, Python, Javascript and/or Java in a UNIX/LINUX environment.

Experience: in programming statistical summation of scientific data would be helpful.

Knowledge: Word, Excel, Perl, Python, Javascript, or Java.

Contact Information: Letters and resumes submitted electronically via email must include the applicant's last name as part of the file name. Interested applicants should email cover letter and resume no later than Monday, March 28, 2016 to:

Beth Hall, Director MRCC
Illinois State Water Survey
bethhall@illinois.edu

The University of Illinois is an Affirmative Action/Equal Opportunity Employer
www.inclusiveillinois.illinois.edu
Microsoft Word for Thesis Writers

Strongly encouraged for: Master's & Ph.D. candidates currently writing theses using MS Word
Interested Faculty & Staff

Scheduled Sessions:

Word for MAC: Monday 3.07.2016 10 - 11:30AM SC 183
Word for PC: Monday 3.07.2016 5:30 - 7PM SC 231
Word for PC: Wednesday 3.23.2016 1:30 - 3PM HIKS G959
Word for PC: Friday 3.25.2016 9:30 - 11AM PHYS 026

An hour of content will be provided and the last 30 minutes will be Q&A.

Candidates must pre-register using the following link:
https://ias.itap.purdue.edu/rgs/wgb_workshop.disp_online_workshop

These courses provide an overview of MS Word features that will help you quickly and easily format a thesis or dissertation meeting Purdue Graduate School requirements.

Topics to be covered will include:

- Table of Contents creation
- Using Section Breaks
- Next Page to control margins & pagination
- Landscape page creation
- Table creation
- Font embedding

Questions?
ASHLEE MESSERSMITH - ASSISTANT | 765.494.3231 | amiley@purdue.edu
http://www.purdue.edu/gradschool/research/thesis/index.html
14th Annual Great Lakes Meteorology Conference
2 April 2016

Valparaiso University Center for the Arts
Registration begins at 9AM
Speakers begin at 10 AM CT

Making a MARK✓

Keynote Speaker:
Dr. Bill Lapenta, Director of NOAA's National Centers for Environmental Prediction

Topics Will Include:
- Lake effect snow research
- Meteorology in the Energy Sector
- The use of CAWS for aviation
- Communication during Severe weather
- GOES-R
- And much more!

Cost:
$55 for all Weather Enthusiasts
*Note: For logistical purposes, the registration cost will increase to $75.00 after Wednesday March 23, 2016

Includes:
- Continental Breakfast
- Coffee and Cookie Breaks
- Lunch and Dinner
- All Conference materials

Registration is Now Open!

For more information contact the Northwest Indiana Chapter of AMS/NWA at valpo.ams.nwa@valpo.edu
CALL FOR STUDENT POSTERS AND PRESENTATIONS

The Northwest Indiana Chapter of the American Meteorological Society is looking for both undergraduate and graduate students to speak on research they have done in atmospheric science. If you have had an exciting research project in meteorology, atmospheric science, or a related field and you are interested in showing off your work in front of 100 regional meteorology students, we want you!

We are interested in having up to six research talks at our conference this year. Each student presenter would be responsible for a 12-minute talk on their research with 3-minutes for questions from the audience. We are also looking for students interested in bringing their research posters for a poster session later in the afternoon. Both of these experiences would be great ways to practice for future conference presentations, build a resume, and connect with other peer and professional meteorologists from around the Great Lakes region. The conference is April 2, 2016 from 9am-7pm at Valparaiso University in Valparaiso, Indiana.

The theme of the 2016 Great Lakes Meteorology Conference is: “Making a Mark”. The theme is aimed at exploring how professionals in various sectors of meteorology have made their ‘mark’. Our goal is to make this conference student-oriented and showcase many of the different research opportunities that meteorology students have completed. By incorporating student research, we can help students explore their potential in this great field of science.

If you are interested in these opportunities at the 2016 Great Lakes Meteorology Conference, please send a brief abstract on your research and a short statement on why you would like to present at the 2016 Great Lakes Meteorology Conference to the Northwest Indiana Chapter of AMS/NWA at valpo.ams.nwa@valpo.edu or submit it via this link: http://www.valpo.edu/student/nwa/2015_Conf/index.php

In addition, if you have any questions regarding this excellent opportunity, feel free to contact Raelene Campbell at Raelene.Campbell@valpo.edu.

The call for student speakers and posters closes Sunday, March 20th, 2016 at Noon CT.
14th Annual
Great Lakes Meteorology Conference
Valparaiso, IN

Like: “Northwest Indiana AMS/NWA Chapter” on Facebook!

Follow: @NWI_AMS on Twitter!

Follow: @NWI_AMS_NWA on Instagram!

We will post several updates and reminders regarding the 2016 Great Lake Meteorology Conference! Make sure to use our hashtag: #GLMC2016! In addition, you can keep up to date on what our chapter is doing and even get some ideas for what your chapter can do!

Making a MARK✓
University of Oklahoma Post-Doctoral Research Associate

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks to fill a Post-Doctoral Research Associate position for its collaborative research as a Cooperative Institute with the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL) in Norman, Oklahoma. The Post-Doc will contribute to NSSL’s Warn-on-Forecast (WoF) program.

Background:
NSSL is actively working on applications for Multi-function Phased Array Radar (MPAR) technology, a replacement candidate for the current operational Weather Surveillance Radar-1988 Doppler (WSR-88D) network across the United States. One unique feature of MPAR is its rapid scanning capability, which is at least 4-5 times faster than the scanning rate of the WSR-88D. It is important to evaluate the impact of high-temporal-resolution MPAR observations on WoF, which seeks to develop a probabilistic storm-scale ensemble-based forecast system with the goal of increase warning lead times for threats related to severe and hazardous convective weather, e.g., tornadoes, large hail, damaging winds and flash floods.

Responsibilities:
The incumbent will help develop and test improved methods for the assimilation of emerging MPAR observations into storm-scale models using ensemble-based data assimilation techniques in order to increase the accuracy of severe weather forecasts. The incumbent will publish the results in peer-reviewed literature and present at conferences.

Required Qualifications:
1. A Ph.D. Degree (or be in the final stages of dissertation completion before applying) in meteorology, atmospheric science or related area.
2. Research experience with storm-scale numerical weather prediction models and data assimilation methods.
3. Experience with Linux (or Unix) operating systems, programming (e.g., Fortran, C, C++) and scripting (e.g. Python, NCL) skills.
4. Excellent oral and written communication skills (including papers published in or submitted to refereed journals) and an ability to work both independently and cooperatively with others.

The beginning salary range will be $50,000-$55,000 per year (depending on qualifications) with University of Oklahoma benefits. Information on benefits may be found at http://hr.ou.edu/employees/New-Employees-at-OU/OU-Benefits-Overview. Start date for the position will be as soon as the candidate can begin work. The position will remain open until filled.

This position is a full-time, one-year appointment and is funded by a partnership between NOAA and the University of Oklahoma through CIMMS. The appointee will serve a customary probationary period during the first year, after which the appointment would be extended for up to two additional years subject to satisfactory performance and the continued funding availability.

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: MPAR 03-16
University of Oklahoma Post-Doctoral Research Associate

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks to fill a Post-Doctoral Research Associate position for its collaborative research as a Cooperative Institute with the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL) in Norman, Oklahoma. The Post-Doc will contribute to NSSL’s Warn-on-Forecast (WoF) program.

Background:
The vision for the WoF program is to develop a probabilistic storm-scale, ensemble-based forecast system with the goal of increase warning lead times for threats related to severe and hazardous convective weather, e.g., tornadoes, large hail, damaging winds, and flash floods. Severe weather is particularly dangerous when there are multiple threats, with perhaps the most deadly combination involving both tornadoes and flash floods. The incumbent in this position will focus on studies of severe storms in which both of these threats occurred.

Responsibilities:
The incumbent will help develop and test storm-scale ensemble-based data assimilation and forecast techniques (e.g. GSI-EnKF/Hybrid, DART) for probabilistic short-range forecasts of multi-hazard events. The incumbent will publish the results in peer-reviewed literature and present at conferences.

Required Qualifications:
1. A Ph.D. Degree (or be in the final stages of dissertation completion before applying) in meteorology, atmospheric science or related area.
2. Research experience with storm-scale numerical weather prediction models and ensemble data assimilation techniques.
3. Experience with Linux (or Unix) operating systems, programming (e.g., Fortran, C, C++) and scripting (e.g. Python, NCL) skills.
4. Excellent oral and written communication skills (including papers published in or submitted to refereed journals) and an ability to work both independently and cooperatively with others.

The beginning salary range will be $50,000-$55,000 per year (depending on qualifications) with University of Oklahoma benefits. Information on benefits may be found at http://hr.ou.edu/Employees/New-Employees-at-OU/OU-Benefits-Overview. Start date for the position will be as soon as the candidate can begin work. The position will remain open until filled.

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120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304

treinke@ou.edu
ATTN: WoF Short Range Forecast 03-16
Mathematical Modeling of Earth’s Dynamic Systems: Letting the Genie out of the Model

A Short Course

July 31 – August 5, 2016
University Park, Pennsylvania USA

Sandra Kirtland Turner (UC Riverside) and Lee Kump, David Pollard and Rudy Slingerland (Penn State), Course Instructors

This workshop will be an intense, hands-on introduction to the creation and use of numerical models as a method for investigating the dynamics of Earth systems. Participants will learn how to translate their understanding of Earth processes into systems of differential equations, and solve them to test hypotheses concerning both modern and ancient systems. In addition, participants will learn how to apply and evaluate selected existing Earth system models.

Agenda

Sunday, July 31, 2016: Arrivals and ice-breaker
Wednesday Aug. 3 (afternoon): Field trip/social event
Thursday Aug. 4: Introduction to Earth system models of intermediate complexity (GENIE) and full complexity Earth system models (general circulation models, ice-sheet models).
Friday Aug. 5: Opportunities to delve further into more sophisticated transport problems, EMICs, or GCMs.

Details

• Participants will have ample time to practice their skills creating and running models with help from the course instructors.
• Course enrollment is limited to 20 participants.
• Graduate students, postdoctoral associates, and early career faculty members will receive preference in the selection of participants.
• We anticipate that with the support of Penn State and our sponsors, the Agouron Institute and Princeton University Press, travel expenses, course fees and per diem costs of the participants will be minimal.

Those interested in participating in this workshop should send a curriculum vitae and a 1-page statement explaining their interest in participating and how they intend to put their new-found modeling skills to use in their research. Graduate students should provide the name of their advisors, their tentative thesis/dissertation titles, and an indication of whether they are pursuing an M.S. or Ph.D. degree. Please send all materials to Tina Vancas, Penn State Geosciences, 503 Deike Bldg., University Park, PA 16802 USA (tqs5@psu.edu).