EAPS MEETINGS

Tuesday, April 15, 3:00 pm, HAMP 3201
Primary Committee Meeting

Tuesday, April 22, 3:00 pm, HAMP 3201
Faculty Meeting

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EAPS COLLOQUIUMS

Tuesday, April 15, 4:00 pm, HAMP 2201
PhD Candidate Xudong Zhu, Can Methane Sources Counterbalance the Carbon Dioxide Sink in the Pan-Arctic
http://goo.gl/XWuVXt

Thursday, April 17, 3:30 pm, HAMP 1252
Dr. Matthew Knight, Lowell Observatory, Comet ISON: A Retrospective Look at a Unique Comet
http://goo.gl/8XkHeI

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EAPS PRESENTATIONS

Jim and Gabi Ogg co-taught a 4-day workshop (7 hr/day) on Earth history visualization and databases in Leuven, Belgium during 24-27 March. The 30 participants consisted of a stratigraphy professor and two selected students from each Belgium University.

Jim Ogg presented “The Art of Creating an Integrated Geologic Time Scale” seminar at the University of Leuven (Belgium) on Friday, 28 March.

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EAPS PUBLICATIONS

Generalized similarity, renormalization groups, and nonlinear clocks for multiscaling
M. Park, D O'Malley, JH Cushman
Physical Review E 89 (4), 042104


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EAPS NEWS

STUDY BY OLIVIA KELLNER AND DR. NIYOGI FEATURED IN PURDUE TODAY
The study looks at more than 60 years of Indiana tornado climatology data from the National Weather Service’s Storm Prediction Center. An examination of that data showed that a majority of tornado touchdowns occurred near areas where dramatically different landscapes meet. Read the article here.

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EAPS ALUMNUS HERB BORENSTEIN AWARDED AS 2014 DISTINGUISHED SCIENCE ALUM
Mr. Borenstein visited the department and gave a talk to students last Friday afternoon. He also attended the Distinguished Science Alumni Awards where he was presented with the 2014 award. The entire department is very proud of his accomplishments!

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ASTRONAUT REUION BRINGS BACK EAPS ALUM, DR. ANDREW FEUSTEL
Alumnus Drew Feustel was also in town last week to visit as part of the Purdue Astronaut Reunion. He was able to stop by and say hello to students and faculty on Friday Morning.
APPLICATIONS SOUGHT FOR NEXT IMPACT COHORT
The IMPACT program is now taking applications for the fall 2014 cohort, and applications are due by 5 p.m. May 9. The application link and information about the program are available at www.purdue.edu/impact.

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FINALS WEEK WORKSHOPS TO INTRODUCE FACULTY AND STAFF TO VIDEO CREATION MADE EASY
ITaP is offering additional workshops on Video Express, a new self-service video recording tool for faculty and staff.

One of the Video Express rooms is located right here, in EAPS. The room is on the fourth floor and open Monday through Friday from 9:00 a.m. – 4:00 p.m. If you ever have any questions you may email eaps-video@lists.purdue.edu for technical assistance.

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PURDUE CENTER FOR GLOBAL FOOD SECURITY FACULTY SEED GRANTS
The PCGFS requests Purdue faculty teams to submit research proposals for internal seed grants directed at innovative research approaches for resolving major global food and nutrition security challenges.

These seed grants are expected to serve as a path for generating new and novel data and information needed to develop more complete projects that will then be submitted to external donor agencies for competitive funding.

Applications are due on Wednesday, April 30th at 5:00 pm. Any questions should be directed to Gary Burniske – grburniske@purdue.edu. See attached flier for details.

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PURDUE DAY OF GIVING
On April 30, Purdue Day of Giving, the entire University community is coming together to give back- by spreading the word, and helping to grant opportunities for students to make an impact on the world.

Purdue Day of giving features both online and campus events, in addition to exciting competitions among all 43 participating units.

Visit the website and help share the message of Purdue Day of Giving!

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DRIVING GLOBAL SUCCESS THROUGH ENVIRONMENTAL SUSTAINABILITY
Cummins Chairman and CEO, Tom Linebarger, will discuss how environmental sustainability is critical to the company’s long-term success.

Friday, May 2, 1:30-2:30 p.m., Pfendler Hall
Click here for more event info.
Click here to register now.

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POSTDOCS AND GRADUATE STUDENTS
UNIVERSITY OF OKLAHOMA HURRICANE MODELING AND DATA ASSIMILATION
The School of Meteorology of University of Oklahoma has an opening for a post-doctoral research associate or research scientist in the area of hurricane modeling and data assimilation. Working with one of the leading teams in data assimilation and hurricane modeling, successful candidates will conduct research to advance the science in hurricane dynamics/thermodynamics, predictability, modeling and data assimilation.

Applications should be received by May 15. See attached page for details.

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DENALI NATIONAL PARK PHYSICAL SCIENCE TECHNICIAN VACANCY
Denali National Park and Preserve in Alaska is currently seeking to fill a Physical Science Technician vacancy. This is a GS-7 TERM appointment and may be extended up to 4 years without further competition.

The Physical Science Technician will assist senior resource science and management staff with the collection, management, analysis, and interpretation of a wide range of physical science information.

For complete details and application materials, please see: http://goo.gl/ipZ76i.

UNDERGRADUATE AND GRADUATE STUDENT INFORMATION
ANNUAL STUDENT GIS POSTER CONTEST
The annual GIS Poster Contest provides an excellent forum for GIS students to present their work to the entire Indiana GIS community.

All current undergraduate and graduate students from Indiana universities are eligible to join the poster competition. Students are invited to submit illustrations of how GIS is used.

See attached flier for complete details.
April Birthdays
Maarten de Hoop – April 20th
Dayton Vincent – April 23rd

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 www.purdue.edu/eas/ and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Amy Cooper (ancooper@purdue.edu) by 5:00pm 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.purdue.edu/eas/info_tech/index.php.

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at http://eaps.purdue.edu.
Request for Proposals in Global Food Security
Faculty Seed Grants
Round 1 - Spring 2014

Innovative Approaches to Food Security in Developing Countries
Purdue Center for Global Food Security
Purdue University, West Lafayette Campus
Proposals Due – April 30, 2014

Purpose

The Purdue Center for Global Food Security (PCGFS) requests Purdue faculty teams to submit research proposals for internal seed grants directed at innovative research approaches for resolving major global food and nutrition security challenges. These seed grants are to foster collaboration by interdisciplinary groups of research faculty taking novel approaches to key, grand challenges impacting global food and nutrition security.

PCGFS seed grants are meant to encourage development of more integrated and holistic approaches to food security research with clear testable hypotheses. These seed grants are expected to serve as a path for generating new and novel data and information needed to develop more complete projects that will then be submitted to external donor agencies for competitive funding. Teams are highly encouraged to establish or strengthen national and international collaboration with scientists at other research and development institutions including universities, international research centers, private, non-profit, federal or global agencies for long-term team building. While the intent of these seed grants is global improvement, proposals that describe research on clearly defined food security challenges in particular geographical domains are also encouraged. Applications need to indicate target potential donor sources for supporting such research and development activities beyond the seed grant award period. Proposals that have elements of training/engaging young professionals in interdisciplinary research are particularly encouraged. Examples of themes include, but are not limited to, food security concerns around:

- The intersections between food, water, climate, and the environment
- The food, nutrition and health nexus
- Agricultural ecosystems, natural resources management, and productivity increases
- Building resilience in farming and the ecosystem
- Connecting innovations to markets
- Socio-cultural issues in the intersection between science, economics and policy

In this round $200,000 will be provided for up to four research awards at a maximum of $50,000 each. Faculty seed grants for global food security are not travel grants (no travel will be awarded); they are intended to support research and data generation activities that will lead to the submission in 2014-2015 of competitive grants for federal, or other external sources of support.
Eligibility

The PI must be a faculty member of Purdue, West Lafayette engaged in food security research and education, and approved by Sponsored Program Services to serve as a Principal Investigator to an outside agency. Proposals must include collaborating faculty from other Purdue departments and colleges. Collaborations with other national and international institutions are also highly encouraged.

Application and Submission Process

Proposals: The deadline for receipt of proposals is 5:00 p.m. Wednesday, April 30, 2014. Proposals should be submitted as a single PDF file attachment to an e-mail message addressed to foodsecurity@purdue.edu. Projects typically will have a start date of June 1, 2014, for a period of one year, although other timing will be considered. Please note that no-cost extensions will NOT be considered so teams should ensure that the proposed project can be completed within one year.

Budget Requirements
Proposals must include a budget prepared by the investigator's pre-award office. A COEUS budget is to be included with the proposal. Due to the source of funding, F&A charges, all fringe benefits and graduate student fee remits will not be charged to the award and, therefore, should not be included in the COEUS budget.

Cover Page
Proposals must be attached to a completed Proposal Submission Form (the pre-awards office will prepare this form) and should be organized as follows:

Page 1: Face page, including:
- Proposal Title
- Principal investigators
- Total budget
- Project period

Pages 2-6: Research plan, limited to 5 pages, single-spaced, one-inch margins, and no smaller than 11 point font. Proposals must address the technical and general review criteria listed below and include the following labeled sections:
- Problem Statement
- Objectives and Rationale
- Materials and Methods
- Summary and Conclusion
- Metrics that will be used to measure success/impact

Attachments:
- References (one page or less)
- Two-page (max) biographical sketch for each PI or co-PI/investigator
• Two-page (max) current and pending support for each participant
• Budget, as prepared through COEUS by the college’s pre-award office

Review Criteria

Technical:
• Explicit description of how the project aligns with CGFS goals, which are to 1) provide global leadership, 2) create global public good, 3) build human and institutional capacity, 4) strengthen and grow partnerships, and 5) develop entrepreneurial capacity. Additional information on CGFS can be found at [www.purdue.edu/discoverypark/food](http://www.purdue.edu/discoverypark/food) (required)
• High potential for submission to funding agencies, foundations and/or other sources of funding support in 2014-2015. (required)
• Reasonable probability of project success. (required)
• Clearly-defined, cross-campus/cross-disciplinary collaborative team. (required)
• Explicit capacity building with international collaborators. (required)
• Possibilities for private sector support and participation. (desired)

General:
• Quality: The proposed research must meet high standards of scientific merit and scholarship.
• Leadership: The investigators must have a strong research track record, and show initiative in addressing the proposed opportunity.
• Interdisciplinary team approach: Multiple investigators with the combined skills needed for a holistic approach, within the intent of the solicitation (including technical, social and economic factors where appropriate). Projects focused on a single discipline will not be funded.
• Leverage: Proposals will be judged on how well and creatively resources are leveraged (intellectually and internationally) to enhance research success and build research and education capacity among the participating institutions.
• Partnerships: Proposal teams are strongly encouraged that promote partnerships among centers and institutes engaged in the targeted regions/countries.
• Continuation: Potential means for sustaining the research project after the grant period with follow-on resources must be identified.
• Deliverables: Publications and communications produced with the funding provided must acknowledge the CGFS. Electronic copies (or summaries, in the case of publications where copyright would otherwise prevent a full copy) must be delivered to CGFS for possible linking to the CGFS website.

Post-Award and Reporting Requirements

• 6 months after the start of the project:
  o All proposal teams are required to submit a progress report with budget status (2 page max plus a one page budget summary).
• All proposal teams are required to give a 1-hour status presentation to the CGFS Director, Managing Director and members of the CGFS Executive Committee. This will provide the means for constructive feedback.

• 30 days after the end of the project period:
  o All proposal teams are required to submit a final written report.
  o All proposal teams are required to submit a policy brief.

Contact Information

Questions about proposal submission should be directed to Gary Burniske at grburniske@purdue.edu
Post-doctoral research associate or research scientist position in hurricane modeling and data assimilation

The School of Meteorology of University of Oklahoma has an opening for a post-doctoral research associate or research scientist in the area of hurricane modeling and data assimilation. The work will be performed at University of Oklahoma in collaboration with scientists in Naval Research Laboratory at Monterey. Working with one of the leading teams in data assimilation and hurricane modeling, successful candidates will conduct research to advance the science in hurricane dynamics/thermodynamics, predictability, modeling and data assimilation.

The candidate will conduct research to investigate the mechanism of hurricane intensification, in particular the impact of outflow on hurricane intensification, through ensemble-based data assimilation and ensemble simulations, study the impact of data from HS3 (Hurricane and Severe Storms Sentinel) field experiments on the estimation and prediction of hurricane outflow and intensification, and extend ensemble-based data assimilation and simulation system to include multiple numerical models.

Desired Qualification:
- Education and Experience:
  - Ph.D. in atmospheric science, Meteorology, Engineering, Computer Sciences, Physics, mathematics or related disciplines
  - Experience in numerical modeling

- Skills and Proficiencies:
  - Demonstrated ability to work independently and collaboratively
  - Excellent written and oral communication skills
  - Fortran 90/95 programming experience in UNIX/LINUX environment
  - Familiarity with scripting and plotting languages

Depending on experience and qualification, the position can be either a postdoctoral research associate or a research scientist. Salary will be competitive based on experience and qualification. University of Oklahoma offers competitive benefits. Position is open now until filled and full consideration will be given to applications received by 15 May 2014.

To apply for the position, please submit electronic applications, including a letter of research interest and experience, CV, and three names of references including their contact information to Prof. Xuguang Wang, at xuguang.wang@ou.edu and https://jobs.ou.edu/applicants/jsp/shared/position/JobDetails_css.jsp?postingId=303969 (job 18908)
STUDENT POSTER CONTEST

The annual GIS Poster Contest provides an excellent forum for GIS students to present their work to the entire Indiana GIS community.

All current undergraduate and graduate students from Indiana universities are eligible to join the poster competition. Students are invited to submit illustrations of how GIS is used.

Judging Criteria

Introduction and Methodology (30% of score)
- Statement of objectives
- Relation to previous research
- Research design

Results (30% of score)
- Substance of findings
- Relation of findings to objectives
- Conclusions

Design (40% of score)
- Organization
- Visuals

Please submit a printed copy of your poster and a digital file by APRIL 30th.

You do not need to be present to win.

For more details please visit: igic.org/conference

PRIZES

First Place
$250

Second Place
$150

Third Place
$100

Deliver or mail posters to
IGIC
777 Indiana Ave., Suite 210
Indianapolis, IN 46202
Attention: Phil Worrall

Submit digital files to
Matt Johnson
mrj21@indiana.edu

Student volunteers
Attend for FREE!
Contact Kurt Babcock
kbabcock.co.monroe.in.us