

January 19, 2016

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EAPS MEETINGS & EVENTS

CoS SPRING FACULTY MEETING SCHEDULE

Feb. 16 & Apr. 19, 2016
LWSN 1142
3:30-4:30 PM

EAPS SPRING FACULTY MEETING SCHEDULE

Feb. 9th, 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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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

EAPS NEWS

IT'S A GIRL

Fallon McQuern delivered Maggie Grace McQuern on January 15 at 7:57 AM. She was 7 lbs. 3 oz., 20 inches long. Both mother and daughter are doing well.



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### FACULTY AND GRADUTATE STUDENTS PRESENTED AT AMS MEETING

New Orleans, LA played host to the 2016 AMS meeting January 10-16. Faculty members, students and alumni attended the event with several presenting. Following is list of presenters and titles:

*"An Investigation of Spatial Redistribution of USA Tornado Activity and Its Relationship to Climate Change"*; **Ernest Agee** Purdue University, West Lafayette, IN; and **S. Childs**, EAPS graduate.

*"Visualizations of Weather Information Using a Scalable Database"*; **Michael E. Baldwin**, Purdue University, West Lafayette, IN; and S. Cook, S. Harrell, and J. Shin.

*"Feature-Relative Forecast Evaluation"*; **Michael E. Baldwin**, Purdue University, West Lafayette, IN; and B. Fehnel and K. L. Elmore.

*"Extreme Precipitation revealed Through High-resolution Dynamical Downscaling"*; Robert Trapp, University of Illinois, Urbana, IL; and **K. Hoogewind**.

*"Emissions of Methane, Volatile Organic Compounds, and Black Carbon from Natural Gas and Oil Development, and an Examination of the Fat-Tail Problem"*; R. Subramanian, Carnegie Mellon University, Pittsburgh, PA; and A. L. Robinson, A. A. Presto, X. Li, M. Omara, M. Sullivan, J. R. Roscioli, S. C. Herndon, L. Williams, T. L. Vaughn, D. Zimmerle, A. J. Marchese, C. Weyant, T. Bond, A. Heimbürger, **P. B. Shepson**, , D. C. McCabe, and E. Baum.

"Joint Session 20 Hydrological Processes with Application to Urban Environments"; **Dev Niyogi**, Purdue University, West Lafayette, IN.

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RESEARCH HIGHLIGHTED ON BLOGS

Professor Michael Baldwin and Stephen Harrell from ITaP recently had their work highlighted on blog posts. Amazon Web Services featured a story discussing their newly developed WeatherPipe tool and its use with NEXRAD weather data. They were also included a blog post by www.opensource.com as a "best of 2015" example of "open science". The accolade comes as a follow-up from a post earlier in the year by Ben Cotton, EAPS alumnus (MS/TECH 2014 and BS/EAPS 2006). <http://goo.gl/BaveLX>

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**EAPS OMBUDSMAN**

What is an Ombudsman? The ombudsmen are an informal, neutral, confidential resource for people in the department, especially students, to raise questions or concerns about any aspect of their academic experience. The EAPS ombudsman is Barbara Gibson (HAMP 2169B; [barbara@purdue.edu](mailto:barbara@purdue.edu)) –please feel free to contact her if needed.

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EAPS FACULTY AND STAFF RESOURCE FUND

The EAPS Faculty and Staff Resource Fund provides faculty and full-time, permanent staff with a simple, open, and transparent way to request resources they need to be productive in their work. This is not intended to replace other sources (e.g. grants, discretionary accounts, start -up, competitive programs on campus, and usual supplies and expenses), rather it is to meet occasional needs that are important for individual productivity and advancement in cases where these other sources are not available to an individual. Examples include professional development course tuition, office needs, and professional conferences.

Procedure:

Applications to the fund should be sent via email (as a pdf) to the Assistant Department Head. Requests must include the following items and not exceed one page.

- applicants name, position title, email address
- a detailed, one paragraph description of what is being requested
- a short explanation of how this will help the individual be productive in their work
- amount requested (this program will accept requests between \$200 and \$2,000)
- time constraints on what is being requested (e.g., a deadline for registration)

Request deadline is the 20th of each month. Decisions will be made by the 5th of the following month. All requests will be reviewed by a group including the Assistant

Department Head, the Business Manager, and at least two members of the EAPS Executive Committee.

UNDERGRADUATE AND GRADUATE STUDENT INFORMATION

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.

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**ACES  
(ADVANCED COMPUTING FOR EARTH SCIENCES)  
UNIVERSITY OF VIRGINIA**

A terrific internship opportunity that is open to Purdue undergraduate and graduate students.

- Week 1: Basic programming and software engineering
- Week 2: Advanced visualization and compiled languages
- Week 3: High-performance computing (including serial optimization), high-throughput computing, MPI, and OpenMP
- Weeks 4-12: Students receive 8-week paid internships to NASA research centers nationwide

*Travel expenses included  
Paid NASA internships  
Partially-subsidized meals and housing*

For more information, please visit: [arcs.virginia.edu/aces](http://arcs.virginia.edu/aces).



### **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. While Fallon is on leave, material for inclusion in the newsletter should be submitted to Jill ([jwable@purdue.edu](mailto:jwable@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](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>



**PURDUE UNIVERSITY**  
**Department of Earth, Atmospheric, and Planetary Sciences**  
**Colloquia – Spring 2016**  
**Thursdays at 3:30 PM, Room 1252 HAMP (unless noted)**

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|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Jan. 21 | Chuck Doswell, University of Oklahoma<br>“A Retrospective Look at the Relationship Between Academic Achievement and a Professional Career as a Scientist”                                                                                  | Host: Tanamachi |
| Jan. 28 | Roshi Nateghi, Purdue University<br>“Risk Analytics for the Impacts of Extreme Events on Infrastructure Systems”                                                                                                                           | Host: Baldwin   |
| Feb. 2  | Kim Elmore, Cooperative Institute for Mesoscale Meteorological Studies and the National Severe Storms Laboratory<br>“mPING at NSSL: Past, Present and Possible Futures”<br><b>Joint seminar w/Civil Engineering; Time and Location TBA</b> | Host: Baldwin   |
| Feb. 4  | Lou Wicker, National Weather Service<br>“NOAA’s Warn-on-Forecast Program: Current Status and Recent Findings”                                                                                                                              | Host: Dawson    |
| Feb. 11 | Benjamin MacCall, Army Research Lab<br>“The US Army Research Laboratory Atmospheric Science Center: A New Resource for the Characterization and Modeling of Boundary Layer Processes in Complex Terrain”                                   | Host: Sun       |
| Feb. 18 | Steve Jacobsen, Northwestern University<br>“Earth’s Deep Water Cycle: Atomic to Geophysical Scales”                                                                                                                                        | Host: Gilbert   |
| Feb. 23 | Roby Douilly, PhD Candidate<br>“3D Dynamic Rupture Simulations Following the 2010 Haiti Earthquake and Scenarios of Potential Earthquakes on the Enriquillo Fault”<br><b>Tuesday, 4:00 PM, Room 2201/HAMP</b>                              | Advisor: Freed  |
| Feb. 25 | James Hurrell, Director, NCAR<br>“Research Highlights at NCAR in 2015”                                                                                                                                                                     | Host: Agee      |
| Mar. 3  | Carol Ann Clayson, Woods Hole Oceanographic Institution<br>“The Role of the Ocean in the Global Climate”                                                                                                                                   | Host: Agee      |
| Mar. 10 | Francesca E DeMeo, Harvard-Smithsonian Center for Astrophysics<br>“Asteroids as Records of Solar System History”                                                                                                                           | Host: Minton    |
| Mar. 24 | Oliver Boyd, U.S. Geological Survey<br>“Seismic Hazard and Geodesy in the New Madrid Seismic Zone”                                                                                                                                         | Host: Gilbert   |
| Mar. 29 | Steeve Symithe, PhD Candidate<br>“Active Deformation in the Caribbean and Southern Haiti”<br><b>Tuesday, 4:00 PM, Room 2201/HAMP</b>                                                                                                       | Advisor: Freed  |
| Mar. 31 | Daniella Rempe, University of Texas, Austin<br>“The Ecological Significance of Landscape-scale Weathering Patterns And Rock Moisture: Observations from the Eel River Critical Zone Observatory in Northern California”                    | Host: Frisbee   |
| Apr. 5  | Zhenong Jin, PhD Candidate<br>“Using Crop Model to Assess and Mitigate the Impact of Climate Change on the US Agriculture System”<br><b>Tuesday, 4:00 PM, Room 2201/HAMP</b>                                                               | Advisor: Zhuang |

- Apr. 7 Tiffany Shaw, University of Chicago Host: Wu  
“What Does the Seasonal Cycle Tell Us About the Atmospheric  
Circulation Response to Global Warming”
- Apr. 14 Catherine Macris, IUPUI Host: Milbury  
“Seconds after Impact: Insights from Tektites and Experiments”
- April 21 No Seminar, Visit Dean Roberts
- April 26 Qianwen Luo, PhD Candidate Advisor: Tung  
“The Cloud-Radiative Forcing of the US Landfalling Atmospheric Rivers”  
**Tuesday, 4:00 PM, Room 2201/HAMP**
- April 28 Marcia Bjornerud, Lawrence University Host: Milbury  
“Decoding the Record of Ancient Earthquakes: Pseudotachylytes from  
Norway, New Zealand and northern Wisconsin”

# ACES

Advanced Computing for Earth  
Sciences



[arcs.virginia.edu/aces](http://arcs.virginia.edu/aces)

**Week 1:** Basic programming and software engineering

**Week 2:** Advanced visualization and compiled languages

**Week 3:** High-performance computing (including serial optimization), high-throughput computing, MPI, and OpenMP

**Weeks 4-12:** Students receive 8-week paid internships to NASA research centers nationwide

- Travel expenses included
- Paid NASA internships
- Partially-subsidized meals and housing

