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.

FACULTY AND GRADUATE 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.

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 in 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](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) –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.

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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.
IMPORTANT NOTICE ABOUT THIS NEWSLETTER
This newsletter is used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Individual email announcements will no longer be sent unless the content is time-sensitive. We will continue to include our publications, presentations and other recent news items as well. Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at [http://www.eaps.purdue.edu/news/newsletters.html](http://www.eaps.purdue.edu/news/newsletters.html) and Click on News to access active links as needed. While Fallon is on leave, material for inclusion in the newsletter should be submitted to Jill (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](http://www.EAPS.purdue.edu/events-calendar.html).
Jan. 21  Chuck Doswell, University of Oklahoma  Host: Tanamachi  
“A Retrospective Look at the Relationship Between Academic Achievement and a Professional Career as a Scientist”

Jan. 28  Roshi Nateghi, Purdue University  Host: Baldwin  
“Risk Analytics for the Impacts of Extreme Events on Infrastructure Systems”

Feb. 2  Kim Elmore, Cooperative Institute for Mesoscale Meteorological Studies and the National Severe Storms Laboratory  Host: Baldwin  
“mPING at NSSL: Past, Present and Possible Futures”

Feb. 4  Lou Wicker, National Weather Service  Host: Dawson  
“NoAA’s Warn-on-Forecast Program: Current Status and Recent Findings”

Feb. 11  Benjamin MacCall, Army Research Lab  Host: Sun  
“The US Army Research Laboratory Atmospheric Science Center: A New Resource for the Characterization and Modeling of Boundary Layer Processes in Complex Terrain”

Feb. 18  Steve Jacobsen, Northwestern University  Host: Gilbert  
“Earth’s Deep Water Cycle: Atomic to Geophysical Scales”

Feb. 23  Roby Douilly, PhD Candidate  Advisor: Freed  
“3D Dynamic Rupture Simulations Following the 2010 Haiti Earthquake and Scenarios of Potential Earthquakes on the Enriquillo Fault”

Feb. 25  James Hurrell, Director, NCAR  Host: Agee  
“Research Highlights at NCAR in 2015”

Mar. 3  Carol Ann Clayson, Woods Hole Oceanographic Institution  Host: Agee  
“The Role of the Ocean in the Global Climate”

Mar. 10  Francesca E DeMeo, Harvard-Smithsonian Center for Astrophysics  Host: Minton  
“Asteroids as Records of Solar System History”

Mar. 24  Oliver Boyd, U.S. Geological Survey  Host: Gilbert  
“Seismic Hazard and Geodesy in the New Madrid Seismic Zone”

Mar. 29  Steeve Symithe, PhD Candidate  Advisor: Freed  
“Active Deformation in the Caribbean and Southern Haiti”

Mar. 31  Daniella Rempe, University of Texas, Austin  Host: Frisbee  
“The Ecological Significance of Landscape-scale Weathering Patterns And Rock Moisture: Observations from the Eel River Critical Zone Observatory in Northern California”

Apr. 5  Zhenong Jin, PhD Candidate  Advisor: Zhuang  
“Using Crop Model to Assess and Mitigate the Impact of Climate Change on the US Agriculture System”

**Tuesday, 4:00 PM, Room 2201/HAMP**

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