EAPS WEEKLY NEWSLETTER
14 Aug. 2017| EAPS on Facebook| EAPS on Twitter

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DEPARTMENT NEWS

INSIDE EAPS NEWSLETTER

Read all of the latest news in our department magazine, Inside EAPS, including Antarctica research, public outreach, and clean energy for hybrid vehicles. The latest version of Inside EAPS newsletter can be found here: https://goo.gl/47U9VP

BE SURE TO CHECK OUT ALL OF THE EAPS COMMUNICATIONS MEDIA!

Facebook
Twitter
Department Magazine
Website News

EAPS COLLOQUIA

Ki-Hong Min
Kyungpook National University
Tuesday, August 22, 2017
4:00 PM
HAMP 2201

EAPS MEETINGS & EVENTS

EAPS FACULTY MEETINGS

September 19, 2017
October 31, 2017
November 28, 2017
3:00 PM
HAMP 3201

CoS FALL FACULTY MEETINGS

September 26, 2017 (virtual)
November 28, 2017
3:30 PM
LWSN 1142

EAPS FACULTY/STAFF RETREAT

August 18, 2017
8:30 AM – 3:30 PM
Beck Agricultural Center

EAPS WELCOME BACK PICNIC

August 18, 2017
4:00-7:00 PM
Cumberland Park (North Shelter)

EAPS PRIMARY COMMITTEE MEETINGS

September 12, 2017
October 17, 2017
3:00 PM
HAMP 3201

BLACK AND GOLDEN JUBILEE

September 21-23, 2017

http://www.eaps.purdue.edu/
The Department of Earth, Atmospheric, and Planetary Sciences has arranged for a block of seats for our alumni for the 2017 Homecoming Football Game. Alumni who wish to sit in this special block must buy tickets by clicking on the button below, and entering the code “EAPS” at checkout. For more information about other exciting events we have going on during the Jubilee, be sure to go to the event website.

Please note that hotel blocks, which are limited, will begin expiring very soon. If you do not make your reservation before the block expires, you will lose the discounted price, as well as the rooms themselves. Please book your rooms as early as possible.

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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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**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.

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**STUDENT NEWS**

**EAPS GRADUATE STUDENTS RECEIVE IN SPACE GRANT CONSORTIUM**

Three EAPS graduate students have been selected for the Indiana Space Grant Consortium graduate fellowship. The Indiana Space Grant Consortium (INSGC) chose EAPS graduate students Sheridan Ackiss, Marie McBride, and Jordyn Miller as the 2017 graduate fellowship recipients. The full article can be read here: [http://www.eaps.purdue.edu/news/articles/2017/insgc.html](http://www.eaps.purdue.edu/news/articles/2017/insgc.html)

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**SANDIA NATIONAL LABORATORIES PRESIDENT HARRY S. TRUMAN FELLOWSHIP**

Sandia National Laboratories is seeking applicants for the President Harry S. Truman Fellowship (in National Security Science and Engineering). For more information please see attached flier.

Additional information can be found here: [https://goo.gl/bzccM2](https://goo.gl/bzccM2)

Click here to be directed to a description of the resource and instructions on how students can access it.

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**UNIVERSITY NEWS**

**8th ANNUAL CONFERENCE FOR PRETENURE WOMEN**

Featured Keynote--Jessica Bennett, New York Times contributing writer and author, feminist fight club: an office survival manual

Register here: [https://goo.gl/3cvv6K](https://goo.gl/3cvv6K)

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[http://www.eaps.purdue.edu/](http://www.eaps.purdue.edu/)
A GUIDE TO WRITING AN AGU ABSTRACT

Faculty and students who are interested in finding out more information about writing an AGU abstract, please click here:
https://goo.gl/VHmnoZ

ASSISTANT PROFESSOR OF EARTH AND PLANETARY SCIENCES
WASHINGTON UNIVERSITY IN ST. LOUIS
JOB OPENING ID 37221

The department of Earth and Planetary Sciences at Washington University, in St. Louis, invites applications for a tenure-track Assistant Professor position in the field of surface hydrology.

For more information, please see attached job announcement.

DATA DEPOT PRICING

As of last Friday, Depot storage cost has been slashed in half. It's now $75 for 1 TB of space/year.

If you are maxing your quota, or are simply on the fence about Depot, this is a great time to purchase new, or additional storage. The free 100GB trial option is still there.

Info and purchase page:
https://www.rcac.purdue.edu/order/products/3

If you have questions about how this space can be used, feel free to stop by 3212 or e-mail me directly.

BIRTHDAYS

Terry West  Aug. 15

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 McQuem (fmcquem@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

http://www.eaps.purdue.edu/
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<th>Date</th>
<th>Speaker</th>
<th>Institution</th>
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<td>Aug. 22</td>
<td>Ki-Hong Min</td>
<td>Kyungpook National University</td>
<td>Sun</td>
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<td></td>
<td><strong>Tuesday, 4:00PM, Room 2201/HAMP</strong></td>
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<td>Aug. 24</td>
<td>Roland Stull</td>
<td>University of British Columbia</td>
<td>Tanamachi</td>
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<td>Aug. 31</td>
<td>Tim Cronin</td>
<td>MIT</td>
<td>Chavas</td>
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<td>Sept. 7</td>
<td>Vince Agard</td>
<td>MIT</td>
<td>Ridgway</td>
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<td>Sept. 14</td>
<td>Amir Allan</td>
<td>University of Utah</td>
<td>Ridgway</td>
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<td>Sept. 21</td>
<td>Ed Harvey, U.S. National Park Service</td>
<td>Water Resources Division</td>
<td>Frisbee</td>
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<td>Held in WALC, Room 2087</td>
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<td>Sept. 28</td>
<td>Shad O’Neel</td>
<td>USGS</td>
<td>Elliott</td>
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<td>Oct. 5</td>
<td>Devon Orme</td>
<td>University of Nevada, Las Vegas</td>
<td>Ridgway</td>
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<td>Oct. 12</td>
<td>Cliff Johnston</td>
<td>Purdue University</td>
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<tr>
<td>Oct. 19</td>
<td>Chanh Kieu</td>
<td>Indiana University</td>
<td>Chavas</td>
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<td>Oct. 24</td>
<td>Zhou Lyu, PhD candidate</td>
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<td>Zhuang</td>
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<td><strong>Tuesday, 4:00PM, Room 2201/HAMP</strong></td>
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<td>Oct. 26</td>
<td>Julie Castillo-Roeger</td>
<td>Jet Propulsion Laboratory, NASA</td>
<td>Minton</td>
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<td>Oct. 31</td>
<td>Tong Yu, PhD candidate</td>
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<td>Zhuang</td>
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<td>Nov. 2</td>
<td>Scott Collis</td>
<td>Argonne National Laboratory</td>
<td>Tanamachi</td>
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<td>Nov. 9</td>
<td>Jack Kaye</td>
<td>Earth Science Division, NASA</td>
<td>Zhuang</td>
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<td>Nov. 16</td>
<td>Xiangdong Zhang</td>
<td>University of Alaska, Fairbanks</td>
<td>Zhuang</td>
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<td>Nov. 30</td>
<td>Rossella Guerrieri</td>
<td>CREAF, Univ. Autònoma de Barcelona</td>
<td>Michalski</td>
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<td>Dec. 7</td>
<td>Sarah Feakins</td>
<td>University of Southern California</td>
<td>Welp/Huber</td>
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Use of Radar Observations for Improving Short-term Precipitation Forecasting

Ki-Hong Min
Kyungpook National University

The talk will be given in two parts. Firstly, the quantitative precipitation forecasting (QPF) capability of the radar variational assimilation method using two numerical weather prediction (NWP) models is investigated over the Korean Peninsula. The two NWP models considered in this study are the UKMO Unified Model (UM) and the Weather Research and Forecasting (WRF) model with double-moment 6-class microphysics scheme (WDM6). We calculated radar equivalent reflectivity using the Korean Meteorological Administration (KMA) Local Data Analysis and Prediction System (LDAPS) based on UM and compared with radar observations in Korea. To compare the cloud microphysics scheme in simulating precipitation, three types of experiments are performed using UM and WRF model and with 3D-Var assimilation method. Comparisons of the 24-hr accumulated rainfall with Automatic Weather Station (AWS) data, contoured frequency by altitude diagram (CFAD), time-height cross sections, and vertical profiles of hydrometeors are used to evaluate the schemes and understand model predictability. Two heavy rainfall cases during the monsoon season of 2016 and one convective case in 2014 are selected for comparison with the 24-hr accumulated precipitation from AWS and CMORPH data.

Secondly, I will present a new method to assimilate null-echo from radar observations that has been developed in my group for short-term quantitative precipitation forecasting (QPF). A null-echo is defined as a region with no precipitating echo(s) within the radar observation range. This information is used to suppress and correct erroneous model precipitation. The model removes excessive humidity and four types of hydrometeor contents (wet and dry snow, graupel, rain water) based on radar reflectivity by a three-dimensional variational (3D-Var) data assimilation technique within WRF-DA system. Some procedures of preprocessing radar reflectivity data and the use of null-echo in the assimilation are presented.

Tuesday, August 22, 2017
4:00 p.m.
Room 2201 HAMP

Refreshments at 3:30 pm
Room 2201/HAMP
WELCOME BACK PICNIC

EAPS Faculty, Staff, and Students

Cumberland Park,
North Shelter
Friday, August 18
4:00 - 7:00 p.m.

Dinner will be provided,
but you are welcome to
bring a dessert to share.

Join Us for the Inaugural
Faculty/Staff vs. Student Soccer Game!
Families are welcome to play as well.
Assistant Professor of Earth and Planetary Sciences  

Job Opening ID 37221

The Department of Earth and Planetary Sciences at Washington University in St. Louis invites applications for a tenure-track Assistant Professor position in the field of surface hydrology. The candidate is expected to perform basic research in hydrologic processes at or near Earth’s surface. Areas of interest include but are not limited to fluvial, lacustrine, and/or estuarine systems, fluvial geomorphology and sediment transport, flooding, and relationships to ecological and climate systems. The ideal candidate will employ quantitative tools and will integrate computational approaches with direct and remotely sensed observations.

The successful candidate is expected to develop a vigorous, externally funded research program, maintain a strong publication record, advise students, provide outstanding teaching over a broad range of undergraduate and graduate courses, and participate actively in departmental governance and university service. We seek candidates who will strengthen existing research programs in geology, climate science, and remote sensing, as well as foster collaboration with scholars across the Washington University community.

Candidates must have a Ph.D. in Earth science, or a related field, at the time of appointment. Complete applications include a cover letter, curriculum vitae, statements of teaching and research interests, and the names and contact information of at least four references as a single PDF, and should be sent to Professor Philip Skemer, Hydrology Search Committee Chair, Department of Earth and Planetary Sciences, Washington University, Campus Box 1169, 1 Brookings Drive, St. Louis, MO 63130, or via e-mail: hydrologysearch@eps.wustl.edu. Applications must be received by October 15, 2017 to ensure full consideration. Washington University is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, age, sex, sexual orientation, gender identity or expression, national origin, genetic information, disability, or protected veteran status.