EAPS MEETINGS & EVENTS

FALL FACULTY MEETING SCHEDULE
Tuesday, Sept. 22nd, Oct. 27th, and Dec. 1st
HAMP 3201
3:00-4:30 PM

FALL 2015 FACULTY & STAFF RETREAT
Beck Agricultural Center
(Room 111)
August 19, 2015
8:30 AM - 4:00 PM

FALL WELCOME BACK PICNIC
Happy Hollow Park
Shelter #4
August 20, 2015
4:00 PM - 7:00 PM

PRIMARY COMMITTEE MEETING
Formally nominate faculty
September 8, 2015
3:00 PM
HAMP 3201

OUTSTANDING ALUMNI EVENT
September 25, 2015

PRIMARY COMMITTEE MEETING
Discussion of nominees & vote
October 6, 2015
3:00 PM
HAMP 3201

EAPS PUBS

Liu, Y., Pan, Z., Zhuang, Q., Miralles, D., Teuling, A.,
Zhang, T., An, P., Dong, Z., Zhang, J., He, D., Wang L.,
Pan, X., Bai, W and D. Niyogi (2015), D Agriculture
5, 11261; doi: 10.1038/srep11261. PDF

EAPS NEWS

AEG SCHOLARSHIP AWARD

Dr. West, along with Richard Gray, consulting engineering
geologist from Pittsburgh, PA, have established a
scholarship award through the Association of Environmental
and Engineering Geologists (AEG) for AEG student
members. The West-Gray Scholarship is restricted to
students located in or performing geological studies in the
Eastern United States (Minnesota, south to Louisiana and
eastward). Patrick Beaudry, an MS student from SUNY-
Queens College, New York, is the first recipient of the award
to be given at the AEG annual meeting, September 21-25,

INDIANA SOCIETY OF MINING AND RECLAMATION
(ISMR)

Dr. West attended a meeting of the Executive Board of the
Indiana Society of Mining and Reclamation (ISMR) on July
21, 2015 in Jasonville, IN. The purpose of the meeting was
to accomplish final planning for the ISMR annual seminar on
coal mining and reclamation to be held December 7 and 8,
2015 in Evansville where 200 or more, coal mine
professionals will attend to upgrade their knowledge on
mining and reclamation. The ten member Executive Board,
appointed by the Director of the Department of Natural
Resources, is composed of government and industry
representatives. Dr. West serves as the university
representative on this Board.
K-12 OUTREACH IN JUNE

June was another busy month for outreach! They held 20 days of professional development for high school teachers. The first two weeks was a Math Science partnership workshop with Lafayette Jeff high school. This workshop was STEM based and had teachers working in content groups. For example, the earth science teachers worked with the Algebra 1 teachers, the geometry teachers worked with the chemistry teachers, and so on. The teachers made interdisciplinary STEM units and tested them with students attending the summer science and math enrichment. EAPS Professor Ernie Agee visited the student camp and discussed atmospheric science with students and teachers.

The second two weeks comprised of teacher workshops held at Merrillville High School. This workshop was part of a teacher quality improvement grant from the Indiana Department of Education. The grant is with Gary Community School Corporation and involves teachers from the region. These teachers were trained on the College of Science’s Science Express program. By being a part of the program the teachers attending will have access to the ~$750,000 of science equipment to use with their students.

EAPS GRADUATE COURSE

EAPS 59100 ADVANCED HYDROGEOLOGY
CRN: 15731
Fall 2015
Instructor: John H Cushman
Email: jcushman@purdue.edu

This course is designed to bring students to a level where they can explore modern research topics in subsurface hydrogeology. Of special interest will be uncertainty quantification and stochastics, fractal structures, hydraulic fracturing, deep subsurface CO2 sequestration, hydraulic induced earthquakes, diagenesis, and modern theories of flow and transport with emphasis on upscaling with evolving heterogeneity. Problems with off-the-shelf computer models and weaknesses in the current literature will be emphasized. Please see attached flyer.

OTHER NEWS

FCS EXPRESS 5 SPEED AND EFFICIENCY FOR CYTOMETRY PROFESSIONALS
Tuesday, August 4th
Burton Morgan Room 129

Attend this seminar if you need to make sense of large data sets, easily communicate finding, or need a new approach to make data analysis more efficient. Please see attached flyer for more information.

THE 9TH ANNUAL ECOLOGICAL SCIENCES AND ENGINEERING SYMPOSIUM
September 21, 2015
Purdue Memorial Union

Ecological Sciences and Engineering Interdisciplinary Graduate Program invites you to participate in their annual Symposium. Registration is now OPEN. Please mark your calendar for Monday, September 21, 2015, Purdue Memorial Union (PMU).

Visit the Symposium Website to get more details regarding Posters, 3MT and Speakers. There are cash prizes for both the Poster and 3MT competition.

MINORITIES STRIVING AND PURSUING HIGHER DEGREES OF SUCCESS IN GEO REU PROFESSIONAL DEVELOPMENT PROGRAM

The Institute for Broadening Participation (IBP) is excited to announce that it is now accepting applications to the Minorities Striving and Pursuing Higher Degrees of Success in GEO REU (MS PHD’S–GEO REU) Professional Development Program!

The MS PHD’S–GEO REU will occur December 11-18, 2015 in conjunction with the December 2015 American Geophysical Union (AGU) Fall Meeting.
Applicants can apply online at: [http://www.msphds.org/GEOREUapp.aspx](http://www.msphds.org/GEOREUapp.aspx)

Deadline to apply: **September 14, 2015**!

To be eligible for the MS PHD’S–GEO REU, applicants:

- Must be a U.S. citizen or Permanent U.S. resident
- Must have completed a recent NSF REU program in one of the following disciplines: Earth Sciences, Ocean Sciences, Polar Sciences, or Atmospheric and Geospace Sciences. Consideration will also be given to applicants who have completed REUs in other STEM fields (e.g. environmental engineering, ecology, computational mathematics, etc.) and who demonstrate strong interest in the geosciences and articulate potential benefits received as participants in this program.

For more information, please click here: [www.pathwaystostem.org](http://www.pathwaystostem.org)

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**PURDUE HOSTING HIGH-PERFORMANCE COMPUTING APPLICATIONS PERFORMANCE TUNING WORKSHOP**

Purdue is hosting an **Aug. 17-21** workshop on tuning parallel applications to improve performance on high-performance computing systems like Purdue’s community clusters. The sessions are for students, post-doctoral researchers, faculty and staff in any field looking to gain skills in evaluating and tuning their code. The Virtual School of Computational Science and Engineering, National Science Foundation and ITaP are sponsors. More information: [https://www.rcac.purdue.edu/news/772](https://www.rcac.purdue.edu/news/772). Questions: rcac-help@purdue.edu

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**BIRTHDAYS**

- David Minton Aug 5th
- Lucy Flesch Aug 12th
- Terry West Aug 15th

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**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/](http://www.purdue.edu/eas/) and **Click on News** to access active links as needed. Material for inclusion in the newsletter should be submitted to Fallon McQuern ([fmcquern@purdue.edu](mailto: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.purdue.edu/eas/info_tech/index.php](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://calendar.science.purdue.edu/eas/seminars](http://calendar.science.purdue.edu/eas/seminars).
The 9th Annual Ecological Sciences and Engineering Symposium

Inequality in Complex Systems: Characterizing Global Disparities

September 21, 2015
Purdue Memorial Union

Events Include:
Poster Session
Three Minute Thesis
Expert Panels
Case Study Workshop

Keynote Address delivered by Ms. Mia Henry

Ms. Mia Henry is the Executive Director and the newest staff member of the Arcus Center for Social Justice Leadership. Mia joined the team with over 15 years of experience in nonprofit management, training facilitation, intergenerational community organizing, and civic and history education. Mia was the founding director of the Chicago Freedom School (CFS), a nonprofit organization that supports youth-led social change and youth-adult partnerships in community organizing. Since her work with CFS, Mia has been a consultant nationally with Safe Places for the Advancement of Community and Equity (SPACEs), and in Chicago with the Chicago History Museum, Chicago Public Schools, the University of Chicago Hospital, and the University of Chicago Oriental Institute. Mia is the owner and operator of Freedom Lifted, a small business dedicated to providing civil rights tours. She is also the founder of Reclaiming South Shore for All, a diverse, grassroots group of residents committed to mobilizing the South Shore (Chicago) community and institutionalizing systems that promote peace, youth leadership, and political accountability. She has been a visiting lecturer at the University of Illinois at Chicago and Harold Washington College, as well as a high school history teacher and International Baccalaureate (IB) program coordinator for Chicago Public Schools. Mia is deeply passionate about social movement history, positive youth development, and civic engagement through an anti-oppression lens. She serves on the Boards of Directors for the Community Justice for Youth Institute and the Worker’s Center for Racial Justice. Mia earned her B.S. from Rutgers University and her M.S.Ed. from the University of Pennsylvania.

Register here for the symposium or go online:
http://www.purdue.edu/gradschool/ese/symposium/registration.html
FCS Express 5

Tuesday, August 4th
Time: 12 – 1 PM (lunch provided)
Burton Morgan Room 129

The De Novo Software approach to flow and image cytometry data analysis makes creating reports and completing your analysis as easy as working in PowerPoint. Attend this seminar if you need to make sense of large data sets, easily communicate findings, or need a new approach to make data analysis more efficient.

**FCS Express 5**

- Speed
- PowerPoint Look and Feel
- Advanced Data Displays
- Complete Statistics
- Custom Statistics
- Image Cytometry
- Accuri and Diva Importers
- Easy Reporting
- High Content
- Batch Processing
- And more....

Contact: support@denovosoftware.com
This course is designed to bring students to a level where they can explore modern research topics in subsurface hydrogeology. Of special interest will be uncertainty quantification and stochastics, fractal structures, hydraulic fracturing, deep subsurface CO₂ sequestration, hydraulic induced earthquakes, diagenesis, and modern theories of flow and transport with emphasis on upscaling with evolving heterogeneity. Problems with off-the-shelf computer models and weaknesses in the current literature will be emphasized.