UPCOMING EAPS MEETINGS

FALL FACULTY MEETING SCHEDULE
Tuesday, Sept 23rd, Oct 7th, and Nov 18th
3:00 p.m. – 4:30 p.m.
HAMP 3201

EAPS OUTSTANDING ALUMNI EVENT
Friday, Oct 10th
HAMP 2201

AN OVERVIEW OF CS&E – COMPUTATIONAL SCIENCE AND ENGINEERING: AN INTERDISCIPLINARY SPECIALIZATION FOR MS AND PHD STUDENTS
Aug 27, Wednesday, 12:30-1:15 p.m.
HAMP 2201

EAPS COLLOQUIA
“WHEN ENGINEERING GEOLOGY MEETS GEOTECHNICAL ENGINEERING”
Gary Luce, Knight Piesold & Co., AEG President
Host: Dr. West
Thursday, Sept 4, 2014
Please see attached Fall 2014 EAPS Colloquia

GENERAL EAPS NEWS

EAPS LIBRARY
“The summer is almost over and it is time to start thinking about fall classes. The EAPS library would like to hear from you if you need materials placed on reserve. I have received the course textbook list from the secretary and will be putting those books on reserve. Please let me know as soon as possible if there is any other books you would like to add. If the library does not have it in our collection and you would like something ordered I will need to know ASAP. Thank you and have a great semester!” -Terry Wade

PURDUE ASSISTANT PROFESSOR TAKING PURDUE TO MARS IN 2020
Briony Horgan, an assistant professor in Earth, Atmospheric, and Planetary Sciences, is the co-investigator of an instrument that will be traveling to Mars for a NASA rover mission in 2020. The mission of the Mars 2020 rover mission is to look for bio signatures, or evidence of ancient Martian life. Over the next six years, the instrument will be built at Malin Space Science Systems in California, tested at Arizona State University, and finally assembled with the rest of the rover at Kennedy Space Center in Florida. Once the rover lands, Horgan and her students will be involved in day-to-day operations as well as image calibration.
To view the complete story, please click here: http://goo.gl/BeYDxu

ENVIRONMENTAL CONFERENCE PROVIDES TOOLKIT FOR TEACHERS TO EDUCATE STUDENTS ABOUT CLIMATE CHANGE
The event will include a keynote lecture by Purdue EAPS professor Paul Shepson, panel discussions on climate change, and sessions that take participants through the implementation of a professional development toolkit for climate science education.
For more information click here: http://goo.gl/Jsa7X
UNDERGRADUATE STUDENT OPPORTUNITIES

A NOTE FROM OUR ACADEMIC COUNSELOR

PEER SUCCESS COACHING

This program provides students with opportunities to meet one-on-one with trained Peer Success Coaches (PSCs) throughout an entire semester. PSCs support students as you navigate your new environment and learn how to succeed academically, socially, and personally at Purdue University. Coaches will help you develop not only effective study habits and test-taking skills but also strong time management and organizational skills to achieve both academic and personal goals. For details and application, visit http://www.purdue.edu/dp/ifi. Use your career account to login and see all available positions.

Callout is August 26, 2014, 6-7pm in Rec 114.
Application deadline is August 28, 2014.
For more information, please see attached.

GRADUATE STUDENT OPPORTUNITIES

SEG/AAPG STUDENT EXPOS AND JOB FAIRS IN THE ENERGY INDUSTRY

In recent years, the AAPG/SEG Job Expos have become popular with students who are interested in employment in the energy sector, since many companies now recruit at these Expos both for full time and summer jobs. There are also poster sessions along with workshops, and students with the best posters can win awards.

The Expo in Houston is by far the largest and this year is being held on Sept. 8-9. The next two largest are the Oklahoma Expo in the spring and the Rocky Mountain Rendezvous at the University of Wyoming which this year is being held on Sept. 26-29.

There is also an Eastern Section Student Job Expo and this year is being held at Ohio State University from Sept. 19-21 in Columbus, Ohio. This EXPO might be good for interested Purdue Students to attend since it would be accessible to drive to.

In any case, students can find out more information and register for a particular AAPG/SEG Student Job Expo by clicking on the appropriate link at: http://goo.gl/Qg0lJx

TRUMAN FELLOWSHIP

Sandia National Laboratories is seeking candidates for the President Harry S. Truman Fellowship in National Security Science & Engineering, a three-year appointment allowing recipients to pursue independent research that supports Sandia’s national security mission. For more information click here: http://goo.gl/p5bJ9M

EASTERN SECTION AAPG STUDENT PRESENTATION TRAVEL GRANTS

The Eastern Section of the American Association of Petroleum Geologists (Eastern Section-AAPG) has a program to support the cost of students traveling to the annual Eastern Section meeting to present the results of research at the conference.

This year, the Eastern Section- AAPG Annual meeting will be held in London, Ontario, September 27-October 1, 2014.
For more information click here: http://goo.gl/Qid5OP.

GRADUATE STUDENT RESEARCH PROGRAM

The Department of Energy (DOE) Office of Science is pleased to announce that the Office of Science Graduate Student Research (SCGSR) program is now accepting applications for the 2014 solicitation. Applications are due 5:00pm ET on Wednesday September 24, 2014.
Detailed information about the program, including eligibility requirements and access to the online application system, can be found at: http://science.energy.gov/wdts/scgsr/.

OIL COMPANY INTERVIEW SCHEDULE

ExxonMobil Interviews September 15-16, 2014

For those interested in careers in Exploration, Development and/or Production, ExxonMobil will be on campus September 15-16 to interview students receiving a BS, M.S. or Ph.D. in Geology or Geophysics. ExxonMobil is interested in finding outstanding candidates who have a strong fundamental background in the earth sciences, physical sciences, and mathematics.

For those interested in a career in Research, ExxonMobil will be interviewing students receiving a MS or PhD in Geology or Geophysics. For those interested in careers blending Geoscience and Computing, they will interview students receiving a MS degree in Geology or Geophysics who have an interest in computing.

They will be interviewing students for both regular employment and internships. See posted flyer in Room 2279 for additional details.

You are required to fill out an online application and post a copy of your resume and copies of your transcripts online at (www.exxonmobil.com/apply) one week prior to interviewing. To sign up for an interview time, please see Kathy Kincaid in Room 2169/D/HAMP.

In addition, Lisa Ryan, Recruiter for ExxonMobil, will also conduct a pre-interview presentation on Monday, September 15 at 6:00pm in Room 2201/HAMP.
2014 ROCKY MOUNTAIN RENDEZVOUS

The 13th Annual Rocky Mountain Rendezvous of Geoscience Students and Employers (RMR) will be convening in Laramie Wyoming Sept 26-29. This is a great opportunity to network, learn about careers in the petroleum industry and get an internship or a job. The RMR provides lots of face time between recruiters and students in order to provide satisfying experiences for all.

For more information and to register please click here: http://rmr.uwyo.edu

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BIG TEN + GRADUATE SCHOOL EXPOSITION

www.purdue.edu/gradexpo

The Grad Expo features:
- educational workshops
- an elite graduate school fair
- networking receptions
- and more!

The 2014 Grad Expo will be held on September 21 and 22, 2014! This annual event is held at Purdue’s West Lafayette, Indiana campus.

For more information please see attached.

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FIELD TRAINING AND RESEARCH PROGRAM AT METEOR CRATER

Barringer Meteorite Crater, Arizona
October 4 - October 12, 2014

For more information, please visit http://www.lpi.usra.edu/exploration/mcFieldCamp/

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CAMPUS NEWS

4th INTERNATIONAL BREAST CANCER PREVENTSION SYMPOSIUM:
GENES, THE ENVIRONMENT AND BREAST CANCER RISK
OCTOBER 16-18, 2014

The goal of this symposium is to bring together global public health actors, advocates, and researchers on breast cancer prevention, to discuss the impact of environmental factors such as foods, stress, exercise on the genome. The symposium will take us on a journey across disciplines to study different levels of gene—environment interactions. Concretely, we will explore the epigenetic mechanisms of gene expression control, health policy and practices, socioeconomic and cultural contexts in which these environmental factors come into play.

Please see attached flyer for more information.

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FACULTY SEARCH PROCEDURES WORKSHOPS ANNOUNCED

August 11, 2014

ADVANCE-Purdue is offering two sessions of the "ADVANCE/OIE Search Committee Workshop on Faculty Hiring" this fall.

The workshop, which is open to all faculty and required for serving on a search committee, will be held 8:15 a.m.-noon Sept. 30 in Stewart Center, Room 302, and 8:15 a.m.-noon Oct. 15 in Purdue Memorial Union, West Faculty Lounge. A light breakfast will be served.

The workshop provides an interactive opportunity to explore and discuss search strategies and challenges. It is research-based and includes important information on unintentional bias. The workshop is conducted in a roundtable format that offers opportunity for an in-depth discussion of faculty search best practices with other faculty members across campus, including how to build a robust and diverse candidate pool.

Those faculty planning to attend can register for one of the two workshops at https://purdue.qualtrics.com/SE/?SID=SV_d6ja4Dlrugt9Z1Z. Those interested in attending are encouraged to register as soon as possible due to the high demand for these workshops.

Any questions should be directed to De Bush at djbush@purdue.edu. Information about the workshop and registration is also available at www.purdue.edu/discoverypark/advance/cfs/faculty-hiring.php.
PURDUE HOSTING INTEL PARALLEL PROGRAMMING, ACCELERATION WORKSHOP

Purdue will host a parallel programming workshop from Intel Sept. 4 to assist researchers and software developers with updating their code to take full advantage of multicore processors and accelerators, both features of Purdue’s newest research supercomputer the Conte cluster.

The session will take place from 8:30 a.m. to 4 p.m. on Thursday, Sept. 4, in the Stewart Center, Room 320, and cover such topics as parallel programming frameworks, quick porting and development of high-performance computing software applications and optimization guidelines and techniques for multicore processors and many-core coprocessors. The workshop is open to faculty, staff and students.

Registration information: http://goo.gl/MfEa5P
Questions: rcac-help@purdue.edu.

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ITAP FALL WORKSHOP SERIES TO COVER KEY TEACHING AND LEARNING TOOLS

Faculty and staff looking to refresh their instructional technology skills at the start of the academic year or develop new skills are encouraged to register for one or more sessions during ITaP’s fall workshop series, which begins Tuesday, Aug. 19.

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X-RAYS, LASERS, AND PROTEINS SEMINAR

FRIDAY, August 22, 2014
10:30 A.M.
ROOM EE 317

Rich Millane, from the University of Canterbury, Department of Electrical and Computer Engineering, will be holding a seminar about x-rays, lasers, and proteins in regards to structural biology.

Please see attached for more details.

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REPORTABLE OUTSIDE ACTIVITY (ROA)

2013-14 Reportable Outside Activity (ROA) forms are academic year documents and will expire June 30. New forms for the 2014-15 need to be processed as indicated in the reminder that came out in Purdue Today: http://goo.gl/86psAh

The electronic information can be found at https://webapps.ecn.purdue.edu/VPEC/OAD/ and the Conflicts of Commitment and Reportable Outside Activities (III.B.1) policy is available at www.purdue.edu/policies/ethics/iiib1.html.

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ONLINE DEVELOPMENT MATERIALS

Purdue benefits-eligible faculty and staff can now access Lynda.com’s catalog of more than 2,500 online courses. This is a great opportunity for professional development. http://goo.gl/afQQmv

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OTHER ANNOUNCEMENTS

POST-BACHELORS POSITION IN SUSTAINABILITY RESEARCH & WATER QUALITY MODELING

The Department of Environmental Sciences Division at Oak Ridge National Laboratory is seeking candidates with quantitative backgrounds and interest in environmental sciences to contribute to on-going projects during 2014-2015. One project will involve conducting watershed modeling to support bioenergy sustainability research using the SWAT model. The overarching goal of the research is to understand how the spatial arrangement and management of bioenergy feedstock’s (e.g., crops, residues) can lead to sustainable outcomes in terms of biomass yields and profitability, water quality, and biodiversity. The candidate will likely support other research efforts focused on quantitative assessment of the sustainability of advanced drought- and salinity-tolerant bioenergy crops or evaluating climate-change effects on water quality.

The ‘ideal’ candidate has had course work in statistical modeling, economics, agriculture, or freshwater science. ORNL are particularly interested in candidates with experience with hydrologic / water quality models of river/reservoir systems (e.g., SWAT, CE-QUAL-W2). Experience with other quantitative tools such as R and programming or scripting languages.

For more information, please contact: Yetta Jager at 865-574-8143.

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GEOSCIENCE EDUCATION ASSISTANT PROFESSOR, TENURE TRACK

Applications will be accepted until the position is filled. To ensure full consideration, submit all application materials by November 14, 2014.

The Department of Geological Sciences at California State University Fullerton invites applications for a tenure---track Assistant Professorship that will begin August 2015.

Please see attachment for more details.

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“I’M A GEOSCIENTIST” LAPEL PINS

Show pride in your chosen field, and wear a I’M A GEOSCIENTIST lapel pin! This 1.75” X .5” pin is free to individuals! Just fill out the order form below. Some restrictions apply: Go to http://goo.gl/9fRLsn for a free pin, and join the community.

Please see attached flyer on how to order.
NESTA STUDENT MEMBERSHIPS

The National Earth Science Teachers Association is delighted to announce that they have instituted a new category of membership to help the next generation of Earth and space science educators and scientists - Free Student Membership!

NESTA now offers up to two sequential free years of student membership at the Basic level for students at the university level who are studying to become teachers or scientists in the Earth and space sciences, environmental sciences, or related disciplines.

For more details, and how to apply, go to https://www.nestanet.org/cms/user/register/student

Upcoming Birthdays

Katie Levitt  Sept 2nd

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 Fallon Seldomridge (fseldomr@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.
An Overview of CS&E - Computational Science and Engineering: An interdisciplinary specialization for MS and PhD students

by

Anita Park
Program Coordinator, Computational Science & Engineering program

Dr. Ayhan Irfanoglu and Dr. Robert Nowack
Departmental Representatives CS&E

and

Aniruddha Jana & Chenxi Yuan
Materials Eng. PhD student & Civil Eng. PhD student
Members of Computational Science Leadership Team

Wednesday, August 27 2014
at 12:30-1:15
Civil Eng. (HAMP) Room 2201

This is for graduate students and faculty in the CE, EAPS and ABE departments that are interested and want more information on the CS&E program

Pizza and soft drinks will be provided
PURDUE UNIVERSITY
Department of Earth, Atmospheric, and Planetary Sciences
Colloquia – Fall 2014
Thursdays at 3:30 PM, Room 1252 HAMP (unless noted)

Sept.  4 When Engineering Geology Meets Geotechnical Engineering
Gary Luce, Knight Piesold & Co., AEG President
Host: West

Sept.  9 The Impact of Climate Change and Agricultural Activities on Water Cycling in Northern Eurasia
Yaling Liu, PhD Candidate
Advisor: Zhuang

Tuesday, 4:00PM, Room 2201/HAMP

Sept. 11 The DOE Accelerated Climate Modeling for Energy Project
Dr. Robert Jacob, Argonne National Laboratory
Host: Harshvardhan

Sept. 18 The Origins of Volatile-rich Solids and Organics in the Outer Solar Nebula
Prof. Fred Ciesla, University of Chicago
Host: Minton

Sept. 25 Long-term Morphological Changes in Mature Supercell Thunderstorms Following Merger with Nascent Supercells
Prof. Ryan Hastings, Purdue University

Sept. 30 Making Weather and Climate Data More Usable for Agriculture Across the U.S. Corn Belt
Olivia Kellner, PhD Candidate
Advisor: Niyogi

Tuesday, 4:00PM, Room 2201/HAMP

Oct.  2 New Perspectives on Tidewater Glacier Mass Change
Dr. Tim Bartholomäus, University of Texas-Austin
Host: Elliott

Oct.  9 Sulfur Cycling on Mars from a Perspective of Sulfur-Rich Terrestrial Analog
Prof. Anna Szynkiewicz, University of Tennessee
Host: Horgan

Oct. 16 Climate Impacts and Extremes in Large Earth System Model Ensembles
Prof. Ryan Sriver, University of Illinois-Champaign/Urbana
Host: Wu

Oct. 21 Towards a Paradigm Shift in the Modeling of Soil Carbon Decomposition for Earth System Models
Yujie He, PhD Candidate
Advisor: Zhuang

Tuesday, 4:00PM, Room 2201/HAMP

Oct. 23 Anthropogenic Signals in InSAR
Prof. Rowena Lohman, Cornell University
Host: Elliott/Flesch

Oct. 28 Giant Impacts on the Asteroid Vesta
Tim Bowling, PhD Candidate
Advisor: Melosh

Tuesday, 4:00PM, Room 2201/HAMP

Oct. 30 Abiotic and Biogeochemical Controls on Reactive Nitrogen Cycling on Boundary Layer Surfaces
Prof. Jonathan Raff, Indiana University
Host: Shepson

(continued on next page)
Nov.  6   Andean Foreland Basins: A Thermochronologic Perspective on Sediment Provenance, Deformation, and Basin Thermal Histories  
        Prof. Julie Fosdick, Indiana University  
        Host: Ridgway

Nov.  11  Profiling Developing Tropical Storm Environments Using GPS Airborne Radio Occultation  
        Brian Murphy, PhD Candidate  
        Advisor: Sun/Haase  
        **Tuesday, 4:00PM, Room 2201/HAMP**

Nov.  13  Shale Gas Development and the Environment  
        Prof. Mark Zoback, Stanford University  
        Host: Nowack  
        **Thursday, 4:00pm, Room 210/MTHW (joint with the Physics Dept.)**

Nov.  20  The Role of Monsoon Circulation on Tropopause Variability  
        Prof. Yutian Wu, Purdue University

Dec.   4   CSI Patagonia: Tracking Glacial and Climate Dynamics over the Last Glacial Cycle  
        Alessa Geiger, University of Glasgow  
        Host: Harbor
Peer Success Coaching

This program provides students with opportunities to meet one-on-one with trained Peer Success Coaches (PSCs) throughout an entire semester. PSCs support students as you navigate your new environment and learn how to succeed academically, socially, and personally at Purdue University. Coaches will help you develop not only effective study habits and test-taking skills but also strong time management and organizational skills to achieve both academic and personal goals.

Who is a PSC?

PSCs are primarily upperclassmen who receive training on coaching their peers through many of the same challenges they faced as underclassmen. They function as guides, listeners, and motivational partners, but not as instructors, parents, or academic advisors. Because they are peers, they work as a neutral party from whom students can gain insight and ideas.

What can a student expect?

At the beginning of the semester, your PSC would touch base with you to find a time to meet and get to know one another. Together, you would complete a coaching agreement that outlines the benefits you expect to receive from coaching and clarifies how your coach will help maximize your experience at Purdue. Usually students meet or communicate with PSCs on a weekly basis. Meeting more or less frequently is an option, too, if that’s what works best for you.

PSCs can guide you through studying for exams, connecting with academic advisors, finding motivation to complete an exercise program, getting involved in campus activities and organizations, exploring career options, applying for student employment, and more. Essentially, PSCs are there to listen to your concerns, to point you in the right direction, and to help you set and achieve academic, social, and personal goals while at Purdue.

Where do I sign up?

Please fill out our online application.

UPCOMING EVENT

PSC Open House
Monday, August 25
3:00-5:00 P.M.
Krach Leadership Center (KRCH), Fourth Floor

We invite you to drop by the fourth floor of KRCH to grab a snack, to take a brief tour, to get more information about the Peer Success Coaching program, and to meet with some of the Peer Success Coaches.

Academic Resource Database – Search by Course Feature

The Academic Resources website (www.purdue.edu/tutoring) now allows students to search for resources that support specific courses. Along with this new search feature, Blackboard now features a list of course-specific resources in the “Student Success” tab in each course’s module.
Purdue undergraduates can intern with a local startup in advanced manufacturing, biotech, IT, healthcare, or contribute to interdisciplinary research on campus.

For details and application, visit [http://www.purdue.edu/dp/ifi](http://www.purdue.edu/dp/ifi). Use your career account to login and see all available positions.

**Callout is August 26, 2014, 6-7pm in Rec 114.** Application deadline is **August 28, 2014.**

<table>
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<th>Program</th>
<th>Requirements</th>
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| Interns for Indiana (IfI)              | • Juniors and seniors  
• Minimum 2.8 GPA  
• Attend class Thursdays @ 4:30 pm  
• Spend 125 hrs minimum on project (10 hrs/wk) |
| Discovery Park Undergraduate Research Internship (DURI) | • Sophomores, juniors and seniors.  
• Minimum 3.0 GPA.  
• Attend class Thursdays @ 4:30 pm  
• Spend 125 hrs minimum on project (6-10 hrs/wk) |

These programs are open to full-time undergraduate students working toward their first Baccalaureate degree in any major. Students receive a scholarship for successful participation.
The goal of this symposium is to bring together global public health actors, advocates, and researchers on breast cancer prevention, to discuss the impact of environmental factors such as foods, stress, exercise on the genome. The symposium will take us on a journey across disciplines to study different levels of gene–environment interactions. Concretely, we will explore the epigenetic mechanisms of gene expression control, health policy and practices, socioeconomic and cultural contexts in which these environmental factors come into play.

Breast cancer prevention is a global public health challenge that requires: Utilization of the diversity of diet: environment and epigenomic pool globally; A multidisciplinary approach: biology, epidemiology, medicine, nutrition, social sciences and communication, education, and public policy; Contributions from scientists, clinicians, and advocates; Sustained international effort in research and action.
Abstracts submission for poster and oral presentations will be open for submissions until August 31, 2014. If you have questions, please contact Kris Swank at kswank@purdue.edu. Submit abstract

Symposium Keynote:

Barbara Dunn, MD, PhD, Chemoprevention Agent Development Research Group, Division of Cancer Prevention, NIH

Breast Cancer Prevention....from around the world

Speaker: Rami Aqeilan, PhD, Augusta Victoria Hospital, East Jerusalem
Speaker: Rihab Nasr, American University of Beirut, Lebanon
Speaker: Marisa Fazzino, MD, Ministry of Health, Uruguay
Speaker: Mary Beth Terry, PhD, Columbia University, New York, USA
Susan Bulkeley Butler Award Speaker: Nahla Hwalla, PhD, American University of Beirut, Lebanon

From Risk to Tumor - Transition Mechanisms

Speaker: Victoria Seewaldt, Professor of Medicine, Duke University, USA
Speaker: Ole Peterson, MD, PhD, University of Copenhagen, Denmark

Featured Presentation

The Molecular Bases of Nutritional Influence on Breast Cancer Prevention

Chair: Sharon Ross, PhD, National Cancer Institute, USA
CoChair: Farah Naja, PhD, American University of Beirut, Lebanon
Speaker: Patrick Stover, Professor and Director, Nutritional Sciences, USA
Speaker: Anna H. Wu, Professor of Preventive Medicine, University of Southern California, USA

Epigenetic Memory and Breast Cancer Risk

Speaker: Sharon Ross, PhD, National Cancer Institute, USA
Speaker: Shuk-mei Ho, Director, Cincinnati Cancer Center, University of Cincinnati, USA

Behavior and Breast Cancer Risk

Speaker: Martine Bellanger, PhD, French School of Public Health (EHESP), France
1 slot open
Epigenetic Memory and Breast Cancer Risk

Speaker: Elizabeth Rowe, PhD, Department of Anthropology Purdue University, USA
3 slots open

Sponsors for the 2014 Symposium

International Breast Cancer & Nutrition (IBCN) • Oncological Sciences Center, Purdue Discovery Park
Purdue University Center for Cancer Research • Purdue University Office of the Provost
Susan Bulkeley Butler Institute for the Development of Women Leaders • Catherine Peachey Fund
Institut National de Prevention et d'Education pour la Santé (INPES) • Ecole des Hautes Etudes en Santé Publique

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Geoscience Education
Assistant Professor, Tenure Track

Position
The Department of Geological Sciences at California State University Fullerton invites applications for a tenure-track Assistant Professorship that will begin August 2015. Area of expertise shall include the study of geoscience education, but may also include other fields in geosciences. The successful candidate will be expected to develop an active, externally funded program involving undergraduate and Master’s students in the candidate’s field of study. The successful candidate must demonstrate interest and ability to teach courses in geoscience education at lower- and upper-division levels. Additional teaching may include introductory-level geosciences and upper-division/graduate courses. The successful candidate shall: (1) coordinate geoscience education courses; (2) help facilitate the integration of teacher preparation into our B.A. program; and (3) be involved in program-level assessment for our department.

Qualifications
• A Ph.D. in Geological Sciences, Science Education, or related field is required at the time of appointment.
• The successful candidate will have teaching experience, be committed to excellence in teaching at the undergraduate and Master's levels, and have the ability to communicate effectively with an ethnically and culturally diverse campus community.
• Preference will be given to applicants who have demonstrated a strong commitment to teaching and mentoring a diverse population of students at the undergraduate and Master's levels using student-centered, active-learning and inquiry-based approaches.
• Ability to teach lower- and upper-division courses in geoscience education, and other introductory level and/or upper-division/graduate courses the candidate is qualified to teach.
• Evidence of productive research in geoscience education.
• Evidence of a professional understanding of assessment methods.

Appointment Date
August 2015

Rank & Salary
This is a tenure-track position at the rank of Assistant Professor with a competitive salary and an excellent comprehensive benefits package including: health/vision/dental plans, spousal, domestic partner and/or dependent fee-waiver, access to campus child-care, defined-benefit retirement through the state system, and optional tax-sheltering opportunities. For a detailed description of benefits, go to http://hr.fullerton.edu/payroll_benefits/HealthCarePlans

Job Control Number
23603G-15-018

The University
California State University, Fullerton is an urban institution with one of the largest student enrollments (>38,000 students) in the 23-campus CSU system. CSUF’s location 22 km SE of metropolitan Los Angeles offers unique collaborative opportunities with other universities and governmental agencies in the southern California region. CSUF is a Hispanic-Serving Institution and ranks 1st in numbers of baccalaureate degrees awarded to Hispanics in California.
The College
The College of Natural Sciences and Mathematics (CNSM) is dedicated to the principle that student learning and research are closely linked. The balance between teaching and research is a key strength of the college, whose slogan is “Exploration by inquiry and learning through discovery”. Abundant collaborative research and teaching opportunities exist within CNSM, which houses abundant research and laboratory facilities and maintains up-to-date IT infrastructure for both research and teaching needs. CNSM is part of the Catalyst Center for the advancement of research in teaching and learning math and science, which brings together science and math education experts across two colleges and seven departments to advance research in teaching and learning.

The Department
The Department offers a Bachelor of Science in Geology, Bachelor of Arts in Earth Science, Master of Science in Geology, and minor in Geology. The Department currently has approximately 160 undergraduate majors, 25 MS students and 13 full-time faculty. Fullerton’s location offers convenient access to coastal, mountain, and desert environments, providing many opportunities for geoscience education, High-Impact Practice instruction, and student training. Department faculty expertise includes petrology, sedimentation/stratigraphy, structure/tectonics, paleontology, surface processes, biogeochemistry, hydrology, and geophysics. The Department is closely tied to the John D. Cooper Archaeological and Paleontological Curation Center, which houses, curates and performs research Orange County’s paleontological and archeological collections. Applicants are encouraged to visit http://geology.fullerton.edu/ for additional information.

Application Procedure
To apply, please send a single pdf file including: 1) a detailed curriculum vita; 2) a letter of application; 3) a teaching statement that includes: a discussion of relevant course work and/or experience in preparation for teaching, a list of courses you are qualified to teach, and a statement of your teaching philosophy; and, 4) a statement of your future research plans and/or goals, as the pertain to the geoscience education position. Letters of recommendation from at least three referees familiar with your teaching and research potential should be sent separately. Applicants and referees should email materials directly to:

Dr. Matthew Kirby
Geoscience ed_search@fullerton.edu
Geoscience Education Search Committee Chair
Department of Geological Sciences
California State University, Fullerton
800 N. State College Blvd.
Fullerton, California 92834-6850
657 278-2158

Application Deadline
Applications will be accepted until the position is filled. To ensure full consideration, submit all application materials by November 14, 2014.

The person holding this position is considered a ‘mandated reporter’ under the California Child Abuse and Neglect Reporting Act and is required to comply with the requirements set forth in CSU Executive Order 1083 as a condition of employment.

California State University Fullerton celebrates all forms of diversity and is deeply committed to fostering an inclusive environment within which students, staff, administrators and faculty thrive. Individuals interested in advancing the University’s strategic goals are strongly encouraged to apply. EEO employer. Reasonable accommodations will be provided for qualified applicants with disabilities who self-disclose.
"If you are considering grad school at all, GO! Absolutely an invaluable experience - I learned so much!"

2013 Student Attendee

**TAKE ADVANTAGE OF:**
- **TRAVEL SCHOLARSHIPS**
- **KEY NETWORKING OPPORTUNITIES**
- **INFORMATIONAL WORKSHOPS**
- **PREMIER GRADUATE SCHOOL FAIR**
- **COMPREHENSIVE INFORMATION REGARDING GRADUATE SCHOOL EDUCATION IN:**
  - **Engineering**
  - **Mathematics**
  - **Science**
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Abstract

Structural biology is concerned with understanding biological function through studying the structures of the molecules of life – biological macromolecules. The three-dimensional structures (shapes) of these molecules determine their biological function, information that is essential for understanding disease processes and for drug design. One of the primary techniques for imaging biological macromolecules is x-ray crystallography, which involves shooting x-rays at protein crystals, measuring the resulting diffraction pattern, and then inverting the data to obtain an image of the molecule. X-ray free-electron lasers (XFELs) are the latest x-ray sources, that produce extremely short x-ray pulses that are a million times brighter than those produced by existing synchrotron x-ray sources. Their unique characteristics are opening up a new frontier in protein structure imaging.

I will begin with a tutorial overview of protein structure and x-ray crystallography (“structural biology for engineers”), and then describe some of the intricacies of XFELs and the signal processing challenges involved with using the data they produce for protein structure determination.
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