EAPS WEEKLY NEWSLETTER

20 Feb. 2017 | EAPS on Facebook | EAPS on Twitter

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DEPARTMENT NEWS

EAPS COLLOQUIA

Christy Gibson
PhD Candidate
Tuesday, February 21, 2017
4:00 PM
HAMP 2201

Kate Freeman
Penn State University
Thursday, February 23, 2017
3:30 PM
HAMP 1252

PUBLICATIONS


EAPS MEETINGS & EVENTS

CoS SPRING FACULTY MEETINGS
April 18, 2017
3:30-4:30 PM
LWSN 1142

EAPS-SPRING FACULTY MEETINGS
February 28, 2017
March 28, 2017
May 2, 2017
3:00 PM
HAMP 3201

EAPS AWARDS BANQUET
April 17, 2017
5:30 PM
Ross-Ade Pavilion, Buchanan Club

EAPS ALUMNI ADVISORY BOARD
April 18, 2017
8:30 AM-4:00 PM
HAMP 2201

BLACK AND GOLDEN JUBILEE
September 21-23, 2017

http://www.eaps.purdue.edu/
COLLEGE OF SCIENCE STAFF PROFESSIONAL DEVELOPMENT FUND APPLICATION

It is time to request applications for the Summer 2017 Staff Professional Development Fund. These applications should be for professional development opportunities that will take place during the summer (May through early August) months. To apply, please completed the application and return it to Angie Teel by **Friday, March 3**. A committee of fellow CoS staff members will then meet to evaluate the applications and make the final funding decisions.

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](http://www.eaps.purdue.edu/). To register, [go to the registration website](http://www.eaps.purdue.edu/).

GLOBE OBSERVER TUTORIALS

GLOBE Observer is an international citizen science initiative to understand our global environment. Citizens make environmental observations that complement NASA satellite data in helping scientists study Earth and the global environment.

EAPS Outreach will be conducting GLOBE Observer tutorials during Purdue Springfest on **April 8, 2017**.

COLLEGE OF SCIENCE RESEARCH AWARDS

The College of Science Research Awards presentation will take place on **Tuesday, February 28** beginning at 3:00pm in LWSN 1142. A reception with the three recipients will immediately follow the presentations.

See attached flyer for this year’s recipients.

STAFF SCIENTIST-DATA PRODUCTS

Battelle and its affiliate, Battelle Ecology, Inc. manage and operate the National Ecological Observatory Network (NEON) project, which is solely funded by the National Science Foundation. A 30+ year project dedicated to understanding how changes in climate, land use and invasive species impact ecology, the observatory’s scientists and engineers are collecting a comprehensive range of ecological data on a continental scale across 20 eco-climatic domains representing US ecosystems. Our teams use cutting-edge technology, including an airborne observation platform that captures images of regional landscapes and vegetation; mobile, relocatable, and fixed data collection sites with automated ground sensors to monitor soil and atmosphere; and trained field crews who observe and sample populations of diverse organisms and collect soil and water data.

The Staff Scientist – Data Products will manage the efforts for developing and delivering the micrometeorology data product through an internal working group (working Integrated Product Team - wIPT) responsible for delivering Eddy-Covariance data products. Responsibilities include: ensuring delivery of data products and associated documentation, including design, specification, implementation, testing, and publication. This position requires understanding Battelle Ecology, Inc.’s data and sample
acquisition systems and their scientific design and goals, and assessing and realizing the utility of algorithms necessary to enable community use of the products. The Staff Scientist will also be expected to interact with external working groups and advisory panels, liaising with the larger ecological modeling and micrometeorology communities to ensure Battelle Ecology, Inc.’s chosen approaches are appropriate.

See attached flyer for additional information.

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ADVANCED STUDY PROGRAM (ASP) SUMMER COLLOQUIUM: THE INTERACTION OF PRECIPITATION WITH OROGRAPHY (IPRO)

This is a workshop for graduate students held at the National Center for Atmospheric Research (NCAR) in Boulder, Colorado.

Motivation: Precipitation near significant orography has many climatological, terrestrial and human impacts. Gradients in orographic height lead to large variations in precipitation, land-surface type, vegetation and watershed properties. Dramatic flooding events linked to orography can also impact the local ecosystem and human activity. A complete understanding of the interactions among all these systems is key but remains illusive.

Students will experience international speakers with observational and modeling expertise across the range of the orographic, precipitation environment. Practical exercises using both the Community Earth System Model (CESM) and the Weather, Research and Forecasting model (WRF) will form the foundation for understanding the orographic precipitation processes in models. The Advanced Study Program colloquium is intended for advanced graduate students.

Tutorials and computer-based exercises will provide experience with a broad range of material, extending across the sub-disciplines of theoretical flow over orography, observational case studies, simple models, moist physical processes, the representation of precipitation-orography interactions in forecast and climate models (WRF and CESM), and the smaller scale applications community.

Colloquium Dates: June 5-16, 2017
Application Deadline: February 28, 2017
Details: ASP Summer Colloquium 2016
Contact: Diana Zucco, zucco@ucar.edu

FREE ONLINE COURSE ON RESERVOIR GEOMECHANICS

Professor Mark Zoback, Stanford University
Start Date: 3 April 2017
Duration: 10 weeks, 20, 90-minute lectures, 8 homework (HW) assignments

This interdisciplinary course encompasses the fields of rock mechanics, structural geology, earthquake seismology and petroleum engineering to address a wide range of geomechanical problems that arise during the exploitation of oil and gas reservoirs. To date, 7,000 people – principally college students and current industry professionals – have successfully completed the course.

The course considers key practical issues such as prediction of pore pressure, estimation of hydrocarbon column heights and fault seal potential, determination of optimally stable well trajectories, casing set points and mud weights, changes in reservoir performance during depletion, and production-induced faulting and subsidence. The first part of the course establishes the basic principles involved in a way that allows readers from different disciplinary backgrounds to understand the key concepts.

Reservoir Geomechanics is a practical course for geoscientists and engineers in the petroleum and geothermal industries, and for research scientists interested in stress measurements and their application to problems of faulting and fluid flow in the crust.

The course follows the textbook, Reservoir Geomechanics by Prof. Zoback. The book is recommended, but not required for the course. It is available from Cambridge University Press and Amazon. It is also available in electronic form for the Kindle.

http://www.eaps.purdue.edu/
A Certificate of Accomplishment will be issued to students who complete HW assignments with a grade of 70%, or better.

For more information and to enroll go to the following URL:


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**RESEARCH EXPERIENCE FOR UNDERGRADUATES ON SUSTAINABLE LAND & WATER RESOURCES**

The aim of the proposed REU on Sustainable Land and Water Resources is to introduce undergraduate students to the key elements of research on land and water resources that are essential to improving management practices, with a focus on Community-Based Participatory Research (CBPR) and diverse interdisciplinary research teams. Students will work on one of three teams on projects that integrate Earth-surface dynamics, geology, hydrology and other disciplines. Research teams are hosted on two Native American reservations and at the Univ. MN and projects are developed in collaboration with the tribes’ resource management divisions. The REU incorporates an interdisciplinary team-oriented approach that emphasizes quantitative and predictive methods, CBPR, indigenous research methods, and traditional ecological knowledge.

Project take place on the main campus of the University of Minnesota, Minneapolis; on the Fond du Lac Reservation in Northern Minnesota; and at Salish Kootenai College on the Flathead Reservation in Montana. Students in Civil Engineering, Earth Sciences, Hydrology, Biology, Ecology, Sustainability, Mathematics, and related disciplines are invited to apply. The application deadline is March 2, 2017, and the program dates are June 12 – August 18, 2017.

For a complete list of projects for this year, visit the project website.

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**UNDERGRADUATE RESEARCH AND POSTER SYMPOSIUM**

The 2017 Undergraduate Research and Poster Symposium has been set for Tuesday, April 11, 2017. If you are a student, consider participating in this wonderful opportunity, and, if you are a faculty member, consider being a judge for the College of Science. Please think about donating an hour (or more) of your time to participate as a judge, it would be greatly appreciated.

More information can be found on the symposium website. If you have any questions, you can send them to Robin Sipes at rsipes@purdue.edu.

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**PURDUE CCO SPRING 2017 GRADUATE WORKSHOPS & PRESENTATIONS**

Feb. 21 / Negotiation Skills
5:30 PM to 6:30 PM / PGSC Room 105AB, Graduate Student Center

Attend this presentation to learn how to evaluate and negotiate an offer! Understand the evaluation and negotiation process, the critical questions to address, and possible factors for consideration as you compare offers and negotiate the terms of a job offer.

See the attached flyer for the full spring schedule.

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**UNIVERSITY NEWS**

**VII EARTH SCIENCES CONVENTION (EXHIBITION OF PRODUCTS, NEW TECHNOLOGIES AND SERVICES)**

The Cuban Geological Society (SCG) is inviting scientists, professionals, technicians, and university students of Geology, Geophysics, and Mining and
related Geosciences, to participate in the VII Earth Sciences Convention, to be held at the International Conference Center in Havana, Cuba on April 3-7, 2017.

For further information, please contact: www.scg.cu; www.cubacienciasdelatierra.com geociencias@mnhnc.inf.cu or see attached flier.

SAFETY CHAIR MEETING AND SAFETY FAIR

Purdue’s Radiological and Environmental Management department will hold its annual Safety Chair Meeting from 8 a.m. to 11 a.m. March 1 in Stewart Center, Room 214. Room 218 will feature a safety fair from 7:30 to 11:30 a.m. with a variety of vendor displays and REM representatives to answer questions about safety needs.

Departmental safety representatives and building deputies are invited to attend to hear presentations on environmental health and safety issues and compliance updates. Faculty and staff are welcome to attend any or all of the sessions. The Safety Chair Meeting is split into three sessions. The first session at 8 a.m. features an occupational safety theme targeting a nonacademic audience. The second session, 9-10 a.m., will apply to all audiences. The third and final session, 10-11 a.m., will have a laboratory theme targeting an academic research audience.

Doug Condon, contractor safety leader from Dow AgroSciences, will discuss that company’s successful safety culture implementation during the 9 a.m. session.

The full program agenda is available here. Registration is due Feb. 22.

http://www.eaps.purdue.edu/
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 Logan Judy (ljudy@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
Interactive Effects Source Taxa and Charring Temperature on PyOM Stability, Biological Reactivity, and Influence on Native Soil C in a Northern Forest Soil

Christy Gibson
PhD Candidate

Fire is a major mediator of carbon (C) and nitrogen (N) cycling in forests, releasing significant quantities of greenhouse gases, soot, and aerosols while simultaneously depositing pyrogenic organic matter (PyOM) onto forest soil. PyOM, the product of the incomplete combustion of biomass, makes up a significant portion of soil organic carbon (SOC) (~5 – 45%). The condensed aromatic structure of PyOM imparts a resistance to weathering and decay thus, PyOM can persist in soil for centuries to millennia - much higher than its unpyrolyzed source material. PyOM is also able to impact the turnover of soil organic C.

While many studies have linked PyOM production and source material to its biological reactivity, few studies have been able to determine the stability and reactivity of well-characterized PyOM, its effect on native soil C (NSC), or the effect of weathering of PyOM on its biological reactivity in field or laboratory decay studies. Addressing these knowledge gaps are particularly important as fire frequency and intensity are expected to increase in boreal and temperate ecosystems which are vulnerable to vegetation shifts and climate change. In this presentation, I will explore the interactive effects of source taxa and charring temperature on PyOM and NSC turnover as well as the effects of photo-oxidative weathering of PyOM on microbial and fungal response in soil and single – fungal culture laboratory incubation experiments which utilized $^{13}$C enriched wood material to track the fate of PyOM through soil and culture medium. The results presented will inform on how PyOM physiochemical characteristics may be useful predictors in determining the relative stability of PyOM in soil.
How Stable is Stabilized Carbon in Soils when the World Heats Up? (An Organic Geochemist’s Perspective on Lessons from Past Climates)

Kate Freeman
Penn State University

Ancient soils preserve highly stabilized carbon in trace amounts. Fossil molecules, or biomarkers, allow us to quantify changes in soil organic matter, as illustrated for the Paleocene-Eocene Thermal Maximum (PETM, ~56 million years ago). Preserved carbon stocks became unstable during the abruptly warm climate event, and our findings reveal gaps in our understanding of how soil carbon is sequestered on long time scales.
In 2012, the University created a performance evaluation policy for staff which included a focus on capturing the professional development activities of staff throughout the year. The College of Science firmly believes that participation in professional development provides long lasting benefits to both the individual staff member and their department. As such, the College desires to support these activities.

College of Science Professional Development Philosophy:

- Professional development participation should be available to all full- or part-time, permanent staff—clerical, service, administrative/professional and managerial/professional.
- Professional development should focus on developing skills that will prepare staff to advance at Purdue or to perform their current duties more effectively.
- All supervisors are strongly encouraged to allow appropriate amounts of time for each staff person throughout the year to attend trainings that will help them accomplish their professional development goals. Approval for participation in such activities should be based on the business needs of each area.

College of Science Professional Development Fund:

In order to support staff professional development activities, the College has created a Professional Development Fund to financially assist with participation in trainings that involve fees or the purchase of training materials.

Professional Development Fund Guidelines:

- Professional Development funds are to be used to support College of Science staff’s participation in activities that will assist them in developing skills that will prepare staff to advance at Purdue or to perform their current duties more effectively.
- Award applications will be requested three times annually with approximately 10 awards per call. Funds requested may be used to defray costs associated with attending professional meetings or seminars, to participate in workshops, or to enroll in professional-oriented courses related to employment responsibilities. The funds must be utilized within two application cycles (Spring awards utilized by the end of Fall, etc.).
- Applications for amounts of up to $1000 will be accepted.
- Individuals are eligible for one award per calendar year.

Application Deadlines:

- Spring Application Call – application due by first Monday in October; decisions made by November 30
- Summer Application Call – application due by first Monday in March; decisions made by April 30
- Fall Application Call – application due by first Monday in June; decisions made by July 31
Our knowledge of early human evolution and migration out of Africa is strongly limited by a lack of reliable dating methods. Although the fossil record in East Africa has been exquisitely well dated by interbedded volcanic ash layers, other sites across most of Asia, Europe, and southern Africa remain poorly dated. In this talk I will show how we can use rare nuclides that are produced in mineral grains by secondary cosmic rays (i.e., cosmogenic nuclides) to date the sediments associated with fossils or stone tools found on ancient river terraces or in caves. The cosmogenic nuclides $^{26}$Al and $^{10}$Be build up in the mineral quartz when it is exposed at the ground surface, and then decay by radioactivity after the quartz is buried. By measuring $^{26}$Al and $^{10}$Be with accelerator mass spectrometry and accounting for the buildup and decay of the two nuclides simultaneously we can determine the burial age of the deposit. Examples from China and South Africa show how the cosmogenic nuclide method is impacting the history of early human evolution and migration.

Bio: Dr. Granger joined the Purdue faculty in 1996, and has been affiliated with the PRIME Lab accelerator mass spectrometry facility. He holds a Ph.D. in geology from the University of California, Berkeley, and a B.S. in physics and scientific instrumentation from Carnegie Mellon University. His research largely focuses on geologic applications of cosmogenic nuclides produced in mineral grains, especially for problems related to landscape evolution, caves, and archaeology. He has authored or coauthored over 70 peer-reviewed papers, including 5 in *Nature* and *Science*. He is a fellow of the Geological Society of America and a recipient of an NSF CAREER award. He has been featured in two *National Geographic* documentaries, and his research has been highlighted 3 different times in *Discover* magazine’s top 100 science stories of the year.
Oxygen present at ~20% in Earth’s atmosphere comes mostly from photosynthesis that occurs in cyanobacteria, green algae and higher plants. This oxygen is generated from water by a process which evolved about 3 billion years ago. The light driven water splitting achieved in the oxygen evolving complex (OEC) of Photosystem II is a critical process that sustains our biosphere. It has also inspired research into artificial photosynthesis which aims at converting sun light into fuels for clean and sustainable energy. Photosynthetic water splitting is fascinating in its efficiency, however, it is not yet understood. Achieving new energy solutions based on concept of artificial photosynthesis requires understanding the molecular mechanisms of water splitting. At the heart of the water splitting process occurring in the Photosystem II is the Mn4Ca cluster embedded in a fine tuned protein environment. Using spectroscopic techniques we have determined the geometry of the Mn4Ca cluster and followed evolution of its electronic structure in time during the formation of O2 molecule. Our experiments were supported by computational analysis and electronic structure calculations. While Mn is an earth abundant element, efficient Mn based molecular catalysts for artificial Photosynthesis have not been yet demonstrated. Ru based molecular catalysts of water oxidation are available with variety of ligand environments and provide convenient systems for mechanistic analysis. We have used in situ EPR, X-ray spectroscopy and resonance Raman measurements to characterize catalytic Ru complexes under water splitting conditions and detect reactive intermediates. Uncovered molecular mechanisms allowed to move forward to design a more efficient water splitting assemblies for future production of so called solar fuels.

Bio: Yulia Pushkar graduated with MS in Physical Chemistry from the Moscow State University, Russia in 1999. She obtained PhD in Biophysics in 2003 from Free University Berlin studying mechanisms of the electron transfer in the Photosynthetic proteins. She worked as a postdoctoral researcher at the Physical Biosciences Division of the Lawrence Berkeley National Laboratory until she obtained a faculty position at Purdue University in 2008. In 2014 she was promoted to associate professor.
Anisotropic media can be modeled with Riemannian metrics. The rigidity problem consist of recovering the metric in a domain, up to an isometry, from the distance between boundary points. We show that in dimensions three and higher, knowing the distance near a fixed strictly convex boundary point allows us to reconstruct the metric inside the domain near that point, and that this reconstruction is stable. We also prove semi-global and global results under certain convexity conditions. The problem can be reformulated as a recovery of the metric from the arrival times of waves between boundary points; which is known as travel-time tomography. The interest in this problem is motivated by imaging problems in seismology: to recover the sub-surface structure of the Earth given travel-times from the propagation of seismic waves. In oil exploration, the seismic signals are man-made and the problem is local in nature. In particular, we can recover locally the compressional and the shear wave speeds for the elastic Earth model, given local information. The talk is based on joint work with Uhlmann (UW) and Vasy (Stanford).

Bio: Plamen Stefanov joined the Department of Mathematics at Purdue in 2000. He received his Ph.D. in math from the University of Sofia in 1988. Since then, and before coming to Purdue, he has worked at universities in Bulgaria, Finland, France, Canada, Brazil and the US. His research is in analysis and applied analysis; most recently in the field of Inverse Problems and applications of microlocal analysis. In particular, his most recent work is focused on mathematical inverse problems arising in various medical imaging methods, geometry, seismology, radar imaging and cosmology.
Staff Scientist-Data Products
Location: Boulder, CO, US

COMPANY OVERVIEW
Battelle and its affiliate, Battelle Ecology, Inc. manage and operate the National Ecological Observatory Network (NEON) project, which is solely funded by the National Science Foundation. A 30+ year project dedicated to understanding how changes in climate, land use and invasive species impact ecology, the observatory’s scientists and engineers are collecting a comprehensive range of ecological data on a continental scale across 20 eco-climatic domains representing US ecosystems. Our teams use cutting-edge technology, including an airborne observation platform that captures images of regional landscapes and vegetation; mobile, relocatable, and fixed data collection sites with automated ground sensors to monitor soil and atmosphere; and trained field crews who observe and sample populations of diverse organisms and collect soil and water data. Once structures are completed, a leading edge cyberinfrastructure will calibrate, store and publish this information. The Observatory includes more than 500+ personnel and is the first of its designed to detect and enable forecasting of ecological change at continental scales.

Job Location: Boulder, CO

JOB SUMMARY
The Staff Scientist – Data Products will manage the efforts for developing and delivering the micrometeorology data product through an internal working group (working Integrated Product Team - wIPT) responsible for delivering Eddy-Covariance data products. Responsibilities include: ensuring delivery of data products and associated documentation, including design, specification, implementation, testing, and publication. This position requires understanding Battelle Ecology, Inc.’s data and sample acquisition systems and their scientific design and goals, and assessing and realizing the utility of algorithms necessary to enable community use of the products. The Staff Scientist will also be expected to interact with external working groups and advisory panels, liaising with the larger ecological modeling and micrometeorology communities to ensure Battelle Ecology, Inc.’s chosen approaches are appropriate.

ESSENTIAL DUTIES AND RESPONSIBILITIES
- Support the development of Battelle Ecology, Inc.’s eddy covariance data products, including managing cost and schedule.
- Provide technical guidance on the development of Battelle Ecology, Inc. data products, particularly eddy covariance data products.
- Coordinate porting/testing/validation of all Micrometeorology science code into operational cyberinfrastructure, including development of standardized plans for transferring science code into the cyberinfrastructure.
- Coordinate implementation, dataflow and data formats for public access.
- Support working groups and product teams (internally and externally) to address cross-cutting science issues associated with sensor and algorithm deployment, implementation, maintenance and QA/QC.
- Provide expertise and feedback in designing, developing, and implementing state-of-the-art tools for manipulating, processing, and analyzing Battelle Ecology, Inc. wide variety of data.

REQUIRED: EDUCATION, EXPERIENCE, KNOWLEDGE AND SKILLS
- Ph.D. with applicable experience in an environmental science field, such as community land modeling, micrometeorology, biometeorology, ecosystem science, or atmospheric sciences
- Two or more years’ experience (may be postdoctoral)
- Sound understanding of a wide range of sensors and measurement techniques, and their associated data acquisition and analysis procedures.
- In-depth knowledge of quantitative uncertainty analyses, time-domain, frequency-domain and QA/QC procedures Experience with combining data of different types and from multiple spatial & temporal scales.
• Proficiency in one or more programming languages, such as Fortran90+, Java, Python, C/C++
• Experience with common statistics packages, such as R or SAS

PREFERRED EDUCATION, EXPERIENCE, KNOWLEDGE AND SKILLS

• Demonstrated experience leading teams
• Demonstrated experience working with interdisciplinary teams
• Knowledge of soil, tower, and airborne sensors and measurement techniques and their associated data acquisition and analysis procedures.
• Demonstrated experience working at the micro- to meso-meteorological scale
• Ability to develop dataflow designs for different and contrasting types of data
• Experience in operationalizing science code and working with large, complex data sets
• Design of data visualization tools
• Demonstrable knowledge of two or more ecological sciences relevant to Battelle Ecology, Inc.
• Peer-reviewed journal publications and a record of professional accomplishment related to the Battelle Ecology, Inc. mission

Apply to: www.neonscience.org

Battelle Ecology, Inc. provides employment and opportunities for advancement, compensation, training, and growth according to individual merit, without regard to race, color, religion, sex, national origin, sexual orientation, gender identity, marital status, age, genetic information, or disability. Our goal is for each staff member to have the opportunity to grow to the limits of their abilities and to achieve personal and organizational objectives. We will support positive programs for equal treatment of all staff and full utilization of all qualified employees at all levels within Battelle Ecology, Inc.
Spring 2017 Graduate Workshops & Presentations

Jan. 18 / Criticism: Is it constructive? Giving and receiving feedback effectively
5:30 PM to 6:30 PM / Deans’ Auditorium, 2nd floor, Pfendler Hall
Offering and receiving constructive criticism effectively is an important professional skill. Attend this presentation to learn about giving and receiving critical feedback to and from peers, supervisors and supervisees.

Jan. 24 / Maintaining work-life balance in graduate school
3:30 PM to 4:30 PM / Room 105AB, Graduate Student Center / Presented by Jennifer Walsh, CAPS
“Work-life balance” isn’t a popular catchphrase or an unattainable goal. It is a necessary skill, and one you will need throughout your lifetime! Attend this presentation by Jennifer Walsh, M.A., LMHC, a Staff Therapist with CAPS, to learn how to maintain your mental, physical, personal and social health while succeeding in your academic and professional roles.

Jan. 26 / Make LinkedIn work for you!
5:30 PM to 6:30 PM / Deans’ Auditorium, 2nd floor, Pfendler Hall
Use LinkedIn to maximize your chances of career success. Attend this presentation to learn why you should be on LinkedIn, how to network with alumni and other groups, search for jobs, and get the most out of this resource.

Jan. 31 / Convert your CV into a resume
5:30 PM to 6:30 PM / Deans’ Auditorium, 2nd floor, Pfendler Hall
What are the differences between the purpose, form and content of CVs and resumes? Convert your CV into a resume, improve an existing resume, and learn about resume do’s and don’ts. Bring a copy of your document(s) to workshop or peer review.

Feb. 1 / Elevator pitch and networking
5:30 PM to 6:30 PM / Deans’ Auditorium, 2nd floor, Pfendler Hall
Attend this workshop to learn about networking strategies, how to develop your personal brand, and refine and practice your elevator pitch.

Feb. 2 / Ace your interview!
5:30 PM to 6:30 PM / PGSC Room 105AB, Graduate Student Center
Develop and refine interviewing skills, whether the interview is over the phone or Skype or in person. Learn how to prepare for it (research and strategies), and learn ideal professional etiquette during and after your interview.

Feb. 21 / Negotiation skills
5:30 PM to 6:30 PM / PGSC Room 105AB, Graduate Student Center
Attend this presentation to learn how to evaluate and negotiate an offer! Understand the evaluation and negotiation process, the critical questions to address, and possible factors for consideration as you compare offers and negotiate the terms of a job offer.
VII EARTH SCIENCES CONVENTION
EXHIBITION OF PRODUCTS, NEW TECHNOLOGIES AND SERVICES

XII Geology Congress (GEOLOGIA '2017)
IX Geophysics Congress (GEOFISICA '2017)
VII Mining Congress (MINERIA '2017)
VI Oil and Gas Congress (PETROGAS '2017)
XIII Informatics and Geosciences Congress (GEOINFO '2017)

The Cuban Geological Society (SCG) is pleased to invite scientists, professionals, technicians and university students of Geology, Geophysics, Mining and related Geosciences, to participate in the VII Earth Sciences Convention, and Exhibition of Products, New Technologies and Services, to be held at the International Conference Center of Havana, Cuba on April 3-7, 2017.

The convention welcomes presentations about Cuba, the Caribbean and other regions or in general about the geology, geophysics and mining experiences in the search and management of natural resources, including minerals (metals, industrial), water, oil and gas, construction, earthquake research and other geohazards, education of geosciences; as well as any other related to the sustainable exploitation of natural resources.

We invite professional societies, institutions and non-government organizations to organize workshops, round tables and meetings during the Convention.

Dr. Manuel A. Iturralde Vinient
President of the Cuban Geological Society

www.scg.cu; www.cubacienciassdelatierra.com
geociencias@mnhnc.inf.cu