EAPS 2013 DISTINGUISHED ALUMNI
Stephen Brand

Stephen is currently a member of SM Energy and BPZ Energy Board of Directors, an Advisory Board member and Senior Executive Advisor for Welltec, and a Science Advisory Board member for Glori Oil.


While president of Australasia he was responsible for the development of the Bayu-Undan integrated offshore gas condensate production facility and its onshore LNG plant. During his tenure as exploration vice president, significant prospects were identified and captured with subsequent significant discoveries made in deepwater Gulf of Mexico and the Browse Basin offshore northwest Australia as well as early entry into the Eagle Ford resource play. As senior vice president of Technology, innovative research programs were developed and initiated in nanotechnology, algae biofuels, low carbon hydrogen, organic solar cells, CO2 capture technology and dieselization.

He is currently Technology Task Group Chair for the National Petroleum Council’s Future Transportation Fuels Study; a member of the Accenture Global Energy Board; and a member of the Biofuels Technical Review Panel, National Renewable Energy Laboratory.

He was born in Owatonna, Minnesota in 1949 and graduated from the University of Minnesota in 1971 with a Bachelor of Arts degree in Geology. He received a Master of Science degree in Geology in 1973 and a doctorate in 1976, both from Purdue University. In 2010, he was recognized as Distinguished Alumnus by both the University of Minnesota and Purdue University.

Stephen Brand Reception - Friday, 4/12, 3:00-4:30 pm, HAMP 2201 “Reflections on Career.”

EAPS GRADS awarded competitive and prestigious NSF Fellowships

Derek Carroll
Derek is pursuing cross-cutting research that seeks to establish a new means of assessing the risk to weather hazards associated with land-falling tropical cyclones (TCs). She will have a particular focus on inland rather than coastal regions, which she has shown in her preliminary studies to be quite vulnerable to hazards such as TC-spawned tornadoes. “We are fortunate to have students of Derek’s caliber working in an area that affects society on so many levels.” (Jeff Trapp)

Wendell Walters
“Wendall’s research is focused on using stable isotopes in nitrate contained in Antarctic ice cores to understand the feedback between atmospheric chemistry and global climate change driven by natural and human perturbations. Wendall received his MS from the University of Maryland in Chemistry and received the PCCRG graduate fellowship and is completing his first year in the EAPS graduate program.” (Greg Michalski)

EAPS SEMINAR

Thursday, 4/11, 3:30 pm, HAMP 1252
Refreshments at 3:00 pm, HAMP 2201

Friday, 4/12, 12:00-1:00 pm, HAMP 4251
Bill Zinsmeister, Title TBD

EAPS DEFENSES

Tuesday, 4/9, at 3:00 pm, HAMP 2201
Qianwen’s defense
**CAMPUS NEWS**

**DISCOVERY PARK NanoDays**  
Educational Activities about Nanoscale Science and Engineering for students in Grades K-12  
Volunteer at [www.nano.purdue.edu/nanodays](http://www.nano.purdue.edu/nanodays)  
(See attached flyer)

**Discovery Lecture Series**  
Colonel Mark “Puck” Mykleby (USMC-retired)  
on “Sustainability: Our National Strategic Initiative.”  
His presentation is on Earth Day, Monday, April 22nd, 2013  
at 5:30 p.m. in Forney Hall of Chemical Engineering, G140.  
(See attached flyer)

**NATIONAL RESEARCH COUNCIL of the NATIONAL ACADEMIES**

The National Research Council of the National Academies sponsors a number of awards for graduate, postdoctoral and senior researchers at participating federal laboratories and affiliated institutions. These awards include generous stipends ranging from $42,000 - $80,000 per year for recent Ph.D. recipients, and higher for additional experience. Graduate entry level stipends begin at $30,000. These awards provide the opportunity for recipients to do independent research in some of the best-equipped and staffed laboratories in the U.S. Research opportunities are open to U.S. citizens, permanent residents, and for some of the laboratories, foreign nationals.

Detailed program information, including online applications, instructions on how to apply and a list of participating laboratories, is available on the NRC Research Associateship Programs Website (see link above).

Questions should be directed to the NRC at 202-334-2760 (phone) or rap@nas.edu.

There are four annual review cycles.  
Review Cycle: **May**; Opens March 1; Closes May 1  
Review Cycle: **August**; Opens June 1; Closes August 1  
Review Cycle: **November**; Opens September 1; Closes November 1  
Review Cycle: **February**; Opens December 1; Closes February 1

Applicants should contact prospective Adviser(s) at the lab(s) prior to the application deadline to discuss their research interests and funding opportunities.

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**EAPS FACULTY AND GRADS**

**PGS – 11th Leonards Lecture and PGS Workshop**  
The Purdue Geotechnical Society is pleased to announce the 11th edition of the Purdue Geotechnical Workshop and 11th G.A. Leonards Lecture that will take place on Friday April 19, 2013 on the Purdue campus in West Lafayette, Indiana. The 2013 PGS workshop is entitled “Soilmakers: Engineering Soil for Geoenvironmental Applications”. The theme of the workshop is inspired by the topic of this year’s Leonards Lecture, in honor of Professor G.A. Leonards, a Purdue geotech faculty member from 1946 to 1991 and a great of the geotechnical engineering profession. The 11th G.A. Leonards Lecture entitled “ORGANOCLAYS: NOVEL BARRIER MEDIA FOR MANAGING GROUNDWATER FLOW AND TRANSPORT AT NAPL-SITES” will be delivered by Dr. Craig Benson, P.E., DGE, NAE, Wisconsin Distinguished Professor at the University of Wisconsin-Madison, a world-known expert, researcher and educator in the field of environmental geotechnics. The lecture, which is free and open to the public, will take place in the Krannert Auditorium at 4:30 p.m. The PGS is thrilled that Prof. Benson has agreed to present this year’s Leonards lecture as he embodies many of the qualities that made G.A. Leonards a legend as a professor and an engineer.

The workshop will precede the Leonards Lecture, starting at 8 a.m. in the Purdue Memorial Union. The program includes two keynote lectures: one by Prof. Krishna Reddy of the University of Illinois at Chicago, on modifying cover soil for controlling methane in landfills; the second by Dr. David Espinoza of Geosyntec Consultants who will tell us a tale of sludge lagoons. Other nine shorter presentations complete the program and cover a variety of exciting topics.

Support for the PGS workshop and Leonards lecture is provided, at the time of this announcement, by the following sponsors: Earth Exploration, ECS Ltd, Fugro Consultants, Golder Associates, Hayward Baker, Nicholson Construction, and Patriot Engineering & Environmental.

Three attachments: Leonards Lecture; PGS workshop program; & Registration Form. Information can also be found at [https://eng.purdue.edu/PGS](https://eng.purdue.edu/PGS) or by contacting Philippe Bourdeau at bourdeau@ecn.purdue.edu
GRADS AND POST-DOCS’ NEWS

4TH Annual MIDWEST GRADUATE RESEARCH SYMPOSIUM

The University of Toledo, Saturday, April 20, 2013, 8:00 am – 7:30 pm. (See attached flyer for details)

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THREE MINUTE THESIS COMPETITION (3MT) 2013

The Graduate School would like to invite you to attend a research communication competition called the 3MT or 3 Minute Thesis. The competition provides students with the opportunity to distill their graduate research message, highlighting the wider implications of their research, without over-simplifying or ‘dumbing down’ the content. Students are challenged to present their graduate research in an engaging, compelling format to a general audience in just 3 minutes and using only one slide.

The competition is open to all disciplines across the university and all currently enrolled graduate students. Cash prizes will be awarded, including an award for the top presentation determined by an audience vote. For additional information please go to the Graduate School home page (www.gradschool.purdue.edu) and click on the news link.

The 3MT Competition will be held on April 17 at 7pm in Fowler Hall. (See attached flyer)

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NASA Planetary Science Summer School Applications

NASA is accepting applications from science and engineering post-docs, recent PhDs, and doctoral students for its 25th Annual Planetary Science Summer School, which will hold two separate sessions this summer (July 29-August 2 and August 12-16) at the Jet Propulsion Laboratory in Pasadena, Calif. During the program and pre-session webinars, student teams will carry out the equivalent of an early mission concept study, prepare a proposal authorization review presentation, present it to a review board, and receive feedback. By the end of the session, students will have a clearer understanding of the life cycle of a space mission; relationships between mission design, cost, and schedule; and the tradeoffs necessary to stay within cost and schedule while preserving the quality of science. Applications are due April 5, 2013. Partial financial support is available for a limited number of individuals. Further information is available at http://pscischool.jpl.nasa.gov.

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GCC2013
7TH GRADUATE CLIMATE CONFERENCE

MIT’s Program in Atmospheres, Oceans, and Climate and the Woods Hole Oceanographic Institution.

Who: Graduate students studying climate
What: 7th Graduate Climate Conference
When: November 1-3, 2013
Where: Woods Hole Oceanographic Institution
Woods Hole, MA

Email: gcc-2013@mit.edu
Website: http://gradclimateconf.mit.edu
Abstract Deadline: June 7, 2013
(See flyer for more details)

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NASSA Langley Research Center
The Langley Aerospace Research Student Scholars (LARSS) Research Internship Program

The NASA LARSS internship program is a paid (stipend) research experience open to U.S. citizens who are full-time undergraduate (juniors and seniors) and graduate students. http://www.nianet.org/larss
(See the attached flyer for details)

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A NOTE FROM OUR COUNSELOR

NWS Road Show
Wednesday, April 10, 4 - 6:30 p.m. in ME Rm. 1009.
See flyer.

DINNER TO FOLLOW at PUCCINI’S STARTING AT 7PM
PLEASE EMAIL CRESPO@PURDUE.EDU TO RSVP FOR DINNER.
ONLY 30 DINNER SPOTS AVAILABLE.
FIRST COME, FIRST SERVE. OPEN TO ALL EAPS STUDENTS

Professionals from regional National Weather Service offices will discuss student opportunities and careers in meteorology and earth sciences, how to make the perfect resume, interviewing tips, and various weather case studies.
Brought to you by PUMA.

Regional Campus Summer Registration

Representatives from Calumet and North Central will be here the following days to assist with registration for summer courses from their campuses. They will be in the Lobby of the Elliott Hall of Music.

Calumet
Monday, April 8, 11 a.m. – 4:30 p.m.
Tuesday, April 9, 9 a.m. – 2 p.m.

North Central
Monday, April 15, 9 a.m. – 4 p.m.
CAREER
Hire Big 10 Virtual Career Fair
April 9-11, 2013. Looking for a Job? Attend the fair from anywhere. Be recruited online and enter the iPod Nano Drawing. Students, Post-docs, and Alumni are invited to attend the Virtual Career Fair, a unique event that helps job seekers meet employers in a time efficient, virtual way. All majors invited. Meet recruiters live online--it's easy!

Just in Time Job Fair
Wednesday, April 17, 2013, 10 a.m. – 3 p.m. in the PMU Ballrooms. The Just in Time Job Fair is your last chance of the school year to connect on campus with a wide variety of companies with opportunities for all majors and degree levels. List of Participating Companies for the 2013 Fair.

April Birthdays
Nat Lifton – 14th
Maarten de Hoop – 20th
Dayton Vincent – 23rd
Claire Chandler – 29th

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 Wanitta Thompson (thompsoe@purdue.edu) by Friday noon 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, deadlines, etc., see our departmental calendar at http://calendar.science.purdue.edu/eas/seminars.
Purdue University
Discovery Park
April 25-26, 2013
9 a.m. - 3 p.m.

Engage future nanoscientists!

NanoDays™

Educational Activities About Nanoscale Science and Engineering For Students in Grades K-12

Volunteer today at the website below.
nano.purdue.edu/nanodays

The first 100 volunteers to participate in NanoDays will receive a free t-shirt!
4th Annual
Midwest Graduate Research Symposium

Saturday
April 20, 2013
8:00A.M. – 7:30P.M.

FREE

*Open to All Graduate Students from All Study Areas*

Registration Deadline: March 29, 2013

• Register for free online by visiting www.utoledogsa.com → Participant Registration
• For complete information, visit: www.utoledogsa.com/information

Awards for both oral & poster presentations
Nationally Recognized Keynote Speaker

• Semi-Formal Dinner
• Oral & Poster Presentation
• Great Networking Opportunity
• No registration fee
• Breakfast, Lunch, and Dinner Provided

E-mail: graduatestudentassociation@gmail.com

Sponsored and Organized by the University of Toledo Graduate Student Association
Graduate Students: Hone your communication skills, get feedback on your presentation style and win CASH PRIZES!

THREE MINUTE THESIS COMPETITION

Wednesday, April 17, 2013
Fowler Auditorium
Doors open at 6:45PM and competition begins at 7:00 PM
To learn more and register please visit
http://wwwdev.gradschool.purdue.edu/whatsnew/3mt.cfm

The Three Minute Thesis (3MT®) is an academic competition developed by The University of Queensland (UQ), Australia for research students.
About the GCC
MIT’s Program in Atmospheres, Oceans, and Climate and the Woods Hole Oceanographic Institution are pleased to announce the 7th annual GCC, a unique conference for graduate students, organized and run by graduate students. The goal of the GCC is to provide a discussion forum for graduate students undertaking research on climate and climate change in an array of disciplines. The format is designed to encourage new climate scientists to become acquainted with the details of diverse areas of climate research and place their own research in the context of the climate science community.

Food, lodging and conference costs will be provided by our generous sponsors. Limited travel funding will be available on an as-needed basis. Applications open April 15 on our website.

Who: Graduate students studying climate
What: 7th Graduate Climate Conference
When: November 1-3, 2013
Where: Woods Hole Oceanographic Institution
       Woods Hole, MA
Email: gcc-2013@mit.edu
Website: http://gradclimateconf.mit.edu
Abstract Deadline: June 7, 2013

Potential Sessions:
Paleoclimate       Atmosphere/Ocean Dynamics
Cryosphere         Biogeochemical Cycles
Clouds/Aerosols    Ecosystems/Biosphere
Hydrology          Climate Change Impacts
Climate Policy     Atmosphere/Ocean Chemistry

Massachusetts Institute of Technology

Woods Hole Oceanographic Institution
The NASA Langley Research Center (Hampton, VA) offers paid, year-round (3 sessions), highly competitive research internships for exceptional students to work with Langley engineers and scientists on some of the Nation’s most important, difficult, and challenging problems. The LARSS program emphasizes multi-disciplinary and collaboratively developed solutions to problems in such broad areas as (1) flight, including entry, descent, and landing, in all atmospheres; (2) Earth systems science, including the characterization of all atmospheres; (3) affordable, safe, and sustainable space exploration systems and technology; and (4) materials and structural concepts, analysis, and integration.

ELIGIBILITY REQUIREMENTS
- U.S. Citizenship
- Full-time student status at an accredited U.S. college or university
- Classification as a rising undergraduate junior or senior, or graduate student (master's or doctoral level)
- Cumulative 3.0 GPA on a 4.0 scale

PROGRAM SESSION DATES
  Application Deadline: Oct. 11, 2012
- 2013 Summer Session (10 weeks) June 4 – Aug. 9, 2013
  Application Deadline: Feb. 1, 2013
- 2013 Fall Session (15 weeks) Sept. 4 – Dec. 13, 2013
  Application Deadline: June 26, 2013

CONTACT INFORMATION
Debbie Murray
LARSS Program Coordinator
Phone: 757-864-5215
Fax: 757-864-9701
Deborah.B.Murray@nasa.gov

Find additional LARSS information, application, and deadlines at http://www.nianet.org/larss
NWS ROAD SHOW
APRIL 10TH
ME 1009, 4PM-6:30PM

Hosted by the Purdue U. Meteorological Association

Professionals from regional National Weather Service (NWS) offices will discuss student opportunities and careers in meteorology & earth sciences, how to make the perfect resume, interviewing tips, and various weather case studies.

STARTING AT 4PM
ME 1009

DINNER TO FOLLOW
AT PUCCINI’S
STARTING AT 7PM

PLEASE EMAIL CRESPO@PURDUE.EDU TO RSVP FOR DINNER.

ONLY 30 DINNER SPOTS AVAILABLE. FIRST COME, FIRST SERVE

OPEN TO ALL EAPS STUDENTS

PUMA
Purdue University Meteorological Association

purdue-weather.blogspot.com
@Purdue_Weather
facebook.com/PurdueWeather

purdue.weather@gmail.com
SUSTAINABILITY: OUR NATIONAL STRATEGIC INITIATIVE

In 2011, while working for the Chairman of the Joint Chiefs of Staff, Mark Mykleby co-authored A National Strategic Narrative, which advocates that the United States should take on sustainability as a national strategic imperative for the 21st century.

The New America Foundation — defining grand strategy as the correlation of America's economic engine, its foreign policy, and its governing institutions to meet the great global challenge of the era — has developed a strategic framework to functionally and pragmatically implement this concept. In the face of the combined challenges of a burgeoning world population; ecosystem depletion at a scale never before seen; the ongoing global contained depression; and a resilience deficit within global economic and political systems, America's response must be to lead by example.

EARTH DAY 2013
Monday
April 22, 2013, 5:30 p.m.
Forney Hall of Chemical Engineering
G140

Colonel Mark “Puck” Mykleby, USMC (Retired)
Mark Mykleby was commissioned as a second lieutenant in the Marine Corps following his graduation from the United States Naval Academy in 1987. After serving as a naval aviator, he became a special strategic assistant to the Chairman of the Joint Chiefs of Staff. Now retired from the Marine Corps, Mykleby serves as a senior fellow at the New America Foundation.

For More Information
Visit www.purdue.edu/discoverypark/dls/  |  Contact Sarah Vaughn: svaughn@purdue.edu  |  765-494-2481

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