EAPS SEMINAR
Thursday, 3/28, 3:30 pm, HAMP 1252
Lijun Liu, University of Illinois, “Fingerprints of Farallon Subduction on Continental North America.” (See attached flyer for more information) Refreshments, 3:00-3:30, HAMP 2201

EAPS DEFENSES
Thursday, April 4, at 4:00 pm, HAMP 2201
“The Effects of Urbanization on the Coupled Nitrogen-Hydrologic Cycle on Semiarid-Urban Environments.” PhD defense for Krystin Riha; Major Advisor: Greg Michalski

Friday, April 12, at 1:30 pm, HAMP 1266
Evaluation of Atmospheric Aerosol and Tropospheric Ozone Effects on Global Terrestrial Ecosystem Carbon Dynamics.” PhD defense for Min Chen; Major Advisor: Qianlai Zhuang

EAPS PRESENTATIONS
Ian Pope and Jon Harbor gave a presentation to 130 middle and high school-aged students at the Bosco school in San Pedro Carcha, Guatemala on Wed., March 13. The presentation focused on environmental change, cloud forest deforestation, and sustainable agriculture.

Prof. Laura Pyrak-Nolte gave the Earth & Environmental Sciences Colloquium at Wright State University on March 14, 2013 on seismic monitoring of fractured rock.

EAPS PUBLISHED ARTICLES


DR. OGG!!
For receiving the PROSE Award for his book, the Geologic Time Scale 2012, 2-Volume Set.

The PROSE Awards are quite prestigious, honoring the best in professional and scholarly publishing and the Association of American Publishers received a record-breaking number of entries this year.

SAGE Program
The SAGE (Summer of Applied Geophysical Experience) program will be offered again this summer (June 16-July 12). The program is open to upper division undergraduates and graduate students interested in applied geophysics. More information is available at: http://web.ics.purdue.edu/~braile/sage/SAGE_2013_Flyer.pdf and the application can be found at http://www.sage.lanl.gov/. The application deadline is March 29, 2013. You can also contact Prof. Braile for questions and further information.

CAMPUS NEWS
OPPORTUNITIES for PURDUE FACULTY
Global Business Engagement (GBE) Initiative
GBE leverages Purdue’s assets—our global brand, international students (and their parents), alumni, technology, research parks, training, services, connections with foreign universities—to reach and attract foreign executives. We also add a business engagement dimension to selected Purdue initiatives and collaborate with foreign organizations, e.g., universities, research institutes, national and sub-national government agencies, science and technology transfer offices, etc. see attachment for more details on what GBE can do for you.

(See attached flyer for more details)

DISCOVERY PARK NanoDays
Educational Activities about Nanoscale Science and Engineering for students in Grades K-12
Volunteer at www.nano.purdue.edu/nanodays
(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.

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)

Office of Interdisciplinary Graduate Programs (OIGP)
Reception and Celebration

Faculty and students are invited to join the Office of Interdisciplinary Graduate Programs (OIGP) for a reception in celebration of interdisciplinary graduate student research on Monday, April 1, 2013. For details, please visit: https://www.gradschool.purdue.edu/whatsnew/OIGP.pdf. Poster and Award Application information for students can be found at: https://www.gradschool.purdue.edu/oigp/calendar/reception.cfm.

The US Department of Energy’s Geothermal Technologies Program and Oak Ridge Institute for Science Education are pleased to announce the 2013 Geothermal Student Competition

The Challenge: The Competition seeks to engage students in a collaborative exercise to develop a business plan for developing a geothermal enterprise. Applicants are encouraged to consider a candidate resource in their home state/region, though convincing plans for any domestic target will be considered.

For more information please see the attachment or contact Dr. Desmond Stubbs, Program Manager by email: geothermalstudentcompetition@orise.orau.gov

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 or by contacting Philippe Bourdeau at bourdeau@ecn.purdue.edu
GRADS AND POST-DOCS’ NEWS

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<http://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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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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5th Computational Science and Engineering Student Conference
Friday, April 5th
Registration and Abstract Submission: http://csesc2013.wordpress.com/ (See attached flyer for more details)

NASA 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)

A NOTE FROM OUR ACADEMIC COUNSELOR

Staying Focused
Tuesday, March 26 in STEW Rm. 313 4:30-5:30. Free workshop on staying motivated and improving concentration.

Calendar
Tuesday, March 26 - Undergraduate Research & Poster Symposium, 12:00 - 3:00pm, PMU North & South Ballroom.
Wednesday, April 24 - Peace Corps Info Table at Purdue, 10:00am to 3:00pm, Stewart Center, Room 194.

PUMA Events
April 3rd-Monthly Meeting 6 PM HAMP 4251
- officer elections
April 6th-Fermi Lab
- Leave from HAMP loading dock at 8 AM return 9 PM
April 10th-National Weather Service visit
- room TBA 4 PM
April 13th-Spring Fest
April 19th-EAPS Alum Visit
April 22nd-EAPS Awards Banquet
May 1st-Study break 7 PM sponsored by PUMA for EAPS students

Graduate School Presentation
Thinking about graduate school? Would you like to know the answers to the questions below? If so, come to a panel of Science and Liberal Arts faculty answering these questions. Thursday, April 4th at 5:30-6:30pm in BRNG 2290.

How do I decide whether to go to Graduate School?
What major should I choose?
Should I pursue a Masters or a PhD?
How do make myself competitive?
What steps should I take to select and apply for schools/programs?

Get these questions and more answered BY these panelists:
Esteban Fernandez-Juricic Biological Sciences Professor
Mark Ward Statistics Professor & Associate Director of Actuarial Science
Cyndi Lynch Purdue Graduate School Director of Fellowships & Professional Development
Angelica Duran English Professor & Director of Religious Studies
Stacey Connaughton Communication Professor & Director of Graduate Studies

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://psciscal.jpl.nasa.gov.
NOBCChE Research Symposium

On Thursday, April 18, 2013, the Purdue University Chapter of NOBCChE will hold its Fifth Annual Research Symposium from 12:00 pm to 4:00 pm. We invite ALL graduate and undergraduate students who are doing research in STEM fields to submit an abstract for the poster session portion of the symposium by using the following link: https://docs.google.com/spreadsheet/viewform?fromEmail=true&formkey=dGdDakt1VnpocEtIPNVVvbGR1Qkw2NGc6MQ

Once the abstract is reviewed and accepted you will be assigned a space in the poster session. The poster session offers a great opportunity to practice your presentation skills, showcase your research accomplishments and build your CV. The poster session will be judged and prizes in the form of gift cards will be awarded to the top students in the following categories: oral presentation, innovative approach, impressive data set, greatest potential impact, best layout/clarity. The symposium will kick off with the poster competition followed by excellent talks from our graduate students and a keynote technical talk. This year we have two graduate student speakers, Nadine Njoya and Christopher Davies. Our keynote speaker is Dr. Dr. Wendell Griffith from The University of Toledo. The symposium schedule is as follows:

12:00 pm – 1:45 pm Poster Session with refreshments
2:00 pm – 3:00 pm Graduate Student Talks: Ms. Nadine Njoya and Mr. Christopher Davies
3:00 pm – 4:00 pm Keynote Technical Talk: Dr. Wendell Griffith

The poster session will be held in the Grad/Staff lounge on the 4th floor of BRWN and all talks will be held in WTHR 201.

The abstract submission deadline is Monday, April 8, 2013. Please submit your abstracts via the link above as soon as possible. We invite all to participate by attending the symposium and/or presenting a poster. For more information or questions, please contact the symposium planning committee at purdue.nobccche@gmail.com.

GREEN

The GREEN Program enhances your understanding of the Renewable Energy and Sustainability industries by taking you outside of the classroom and into the field. By gaining exclusive access to different Renewable Energy facilities in Costa Rica and Iceland you will receive the hands-on experience you need to accelerate your career. The GREEN Program provides a perfect balance of interactive online modules, engaging group discussions, and exclusive facility visits to inform, engage, and inspire students of all majors.

The GREEN Program is a short-term experience which combines education, adventure, service learning and cultural immersion that creates a lasting impact and helps you gain global perspective to advance your career.

This year GREEN is launching a new program in Iceland, which was recently recognized as the "greenest” country in the World. This program is offered in partnership with Reykjavik University, which provides transferrable academic credit upon completion of the 10-day program.

GREEN’s post-program benefits allow like-minded students to stay connected through the GREEN Alumni Network. The Network provides Alumni access to hundreds of other passionate students across the world, internship and job opportunities, as well as industry events.

To gain a better understanding of The GREEN Program, visit our website for a sneak peak of the program and to apply. Spots on each program are limited to 20 students. Applications are approved on a rolling basis, and spots fill on a first-come, first served basis. Submit your application for the program dates below.

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Iceland 10-Day SUMMER BREAK Program (1 option)
June 14th - June 23, 2013

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Costa Rica 12-Day SUMMER BREAK Programs
(16 options)
May 15, 22, 29
June 5, 12, 19, 26
July 3, 10, 17, 24, 31,
August 7, 14, 21, 28

Alexander Tanenbaum
Supporter Relations
Alex@theGREENprogram.com | 215.821.0935

March Birthdays

Elizabeth McNie – 11th
Greg Michalski – 17th
Larry Braile – 21st
Megan Sapp Nelson – 24th
Joseph Francisco – 26th
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 (thompsonw@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.
The Farallon plate, although largely disappeared by now, has been subducting beneath North America since at least the Jurassic. This process is believed to have greatly changed the geology of North America, especially within the western United States, but the underlying dynamics of many major tectonic events remain unclear, such as formation of the Western Interior Seaway (WIS) and the Rocky Mountains, Cenozoic uplift of western US encompassing the Colorado Plateau (CP), as well as the enigmatic pattern of volcanisms in Pacific Northwest. We developed large-scale geodynamic models to investigate the effect of Farallon subduction on the long-term evolution of North American continent. In order to infer the subduction process in the remote geological past, we introduced the theory of weather prediction into mantle convection, which allows for a derivation of past mantle thermal structure and dynamics in a more physically strict way. With this exercise, we were able to provide a dynamic mechanism for the WIS formation and subsequent uplift of the CP, where model predictions satisfy various lines of observations including seismic tomography, stratigraphic subsidence and paleo-altimetry inference. Our model also provides a possible mechanism for the Laramide orogeny including the Rockies.

Our research closely follows the migration of USArray, which by now has move to the eastern US. The USArray-generated tomography images revealed a complex mantle configuration below the tectonic west, which motivated our recent work on geodynamic modeling. By simultaneously assimilating plate motion history, seafloor ages, and evolving plate boundaries in a single model, we attempted to predict the seismic mantle structure. Our best-fit model suggests that the observed structure is a natural result of Farallon subduction, during which the slab got segmented multiple times. The major slab segmentation happened around 16 Ma, which, when projected onto western US, matches the eruption of the Steens-Columbia River flood basalt both in space and in time. Our results suggest that this large igneous province formed as a consequence of subduction, instead of being due to a mantle plume as usually conjectured.
Opportunities for Purdue faculty

Overview of GBE

Our mission is to stimulate engagement between Purdue and foreign companies and to generate more foreign investment and trade for Indiana.

GBE leverages Purdue’s assets—our global brand, international students (and their parents), alumni, technology, research parks, training, services, connections with foreign universities—to reach and attract foreign executives. We also add a business engagement dimension to selected Purdue initiatives and collaborate with foreign organizations, e.g., universities, research institutes, national and sub-national government agencies, science and technology transfer offices, etc. China is our current priority country but we plan to add other fast-growing foreign markets in the future.

How can faculty benefit?

GBE markets Purdue research, faculty expertise and faculty-created technology to foreign companies in the following primary areas:

1. **Research support.** For faculty whose research is approximately 2-3 years from market introduction, GBE finds potential foreign partners/collaborators to support additional R&D needed to reach a level of development so that the technology can attract corporate investors or licensees. Such collaborators could be foreign universities, research institutes, or even selected companies, with costs of such joint translational research supported either directly by the partners or via grants from public agencies, from either foreign or U.S. sources.

2. **Sponsored research.** GBE identifies the R&D priorities or technical challenges faced by foreign firms, matches those needs with faculty expertise and Purdue facilities, and facilitates interaction with the foreign firm. The goal is to develop sponsored research projects for faculty consistent with faculty research priorities.
3. **Consulting contracts.** In cases where foreign firms need short-term or very focused advice or know-how in meeting technical issues, faculty consulting contracts presents another opportunity.

4. **Technology licensing.** For faculty members who have already disclosed and patented their discoveries via the Office of Technology Commercialization, foreign firms represent a new source of potential licenses, royalties and wider commercialization. Even after IP rights are secured, there may be a need for the foreign company to engage with the Purdue inventors to help further develop or refine the technology.

5. **Business development.** If a faculty member has formed or is part of the founding team of a venture to commercialize his/her technology, GBE helps the firm find sources of foreign capital, markets, partners, service providers to jumpstart global growth.

6. **Graduate student recruitment.** GBE encourages foreign firms to consider upgrading their competitiveness by supporting their employees to secure Purdue graduate degrees. This creates potential graduate student research support, especially if the foreign student can help conduct research relevant to his employer.

**How does GBE generate the above opportunities?**

- We solicit and learn of specific R&D or technical needs of foreign firms, and share these needs with faculty to assess their interest in research or consulting.
- We develop summaries of Purdue translational research and intellectual property assets and translate these and distribute to foreign via multiple channels.
- We welcome and organize visits by foreign business delegations, e.g., Chinese Ministry of Commerce delegation in summer of 2012.
- We organize delegations of Purdue faculty, OTC staff, and executives of Research Park companies to foreign countries, which include meetings with executives/officials/research groups.
- We tap into a network of alumni, foreign universities, service, and government agencies to identify, qualify and interact with foreign executives.
- We leverage existing Purdue relationships with foreign universities, companies, research institutes to find and connect with foreign companies, e.g. Colombia initiative, Purdue’s U.S.-China EcoPartnership.
- We connect with the parents of our international students on how Purdue can help them grow their business (via workshops here and direct contact).
How can faculty get involved?

- If your research has reached a pre-commercial stage (an estimated 2-3 years from market introduction) and you are seeking partners/resources for R&D to move closer to commercial interest, please either call (4-0614) or send me an e-mail (mvanfleet@purdue.edu) so we can discuss the potential for foreign support of this additional research.
- If OTC has already protected your discoveries and you would like to discuss licensing your technology to a foreign company, let me know and we can discuss with your OTC contact.
- If we inquire about or alert you to interests of a foreign company in your research expertise (for R&D or consulting) please respond.
- Please consider joining a delegation to a foreign country to market your research capability, technology, company, etc.
- Please consider meeting foreign firms visiting Purdue that have interests matching your own in the opportunity areas above.
- If you have been approached by or know foreign firms and you could use any assistance in contacting them, ongoing communication or strategy, GBE can assist with counsel, translation, etc.

It would be our privilege to help you accelerate the development and impact of your research.

Mark Van Fleet,
GBE Executive Director
mvanfleet@purdue.edu
765-494-0614
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!
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.

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
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
4th Annual

Midwest Graduate Research Symposium

Saturday
April 20, 2013
8:00 A.M. – 7:30 P.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
- Semi-Formal Dinner
- Oral & Poster Presentation
- Great Networking Opportunity
- No registration fee
- Breakfast, Lunch, and Dinner Provided

Nationally Recognized Keynote Speaker

E-mail: graduatestudentassociation@gmail.com

Sponsored and Organized by the University of Toledo Graduate Student Association
Call out for oral presentations and posters

Who can present? **Undergraduate** and **graduate** students doing computational research in **ANY** field.

**Monetary awards** for 1st, 2nd, and 3rd place oral a poster presentations.

Absolutely **FREE**!

**Coffee breaks and lunch** included for enrolled participants!

**Special Keynote speakers**

**Kurt Bryan**  
Professor of Mathematics at the Rose-Hulman Institute of Technology

**Mark Lundstrom**  
Don and Carol Scifres Distinguished Professor of Electrical and Computer Engineering at Purdue University

**Juan Wachs**  
Assistant Professor in the Industrial Engineering School at Purdue University

**Deadline for Abstracts March 18th, 2013**

**Registration and Abstract Submission:**

http://cnesc2013.wordpress.com/
The Langley Aerospace Research Student Scholars (LARSS) Research Internship Program
http://www.nianet.org/larss

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