Upcoming MEETINGS

Monday, October 15, 12:00-1:00, HAMP 2201
Gold Team Meeting

Tuesday, October 16, 12:30, HAMP 2173
Diversity Committee Meeting

Friday, October 19, 11:45-12:45, HAMP 2201
WISP Luncheon

EAPS WEATHER BRIEFING MEETING
Every Monday, Wednesday & Friday,
1:00 pm, HAMP 4173

EAPS SEMINAR

Thursday, October 18, 3:30, HAMP 1252, refreshments at 3:00, HAMP 2201
Chris Daniel, Bucknell University, “Poking a Sacred Cow: Detrital Zircon Insights into the Timing of Proterozoic Accretionary Tectonics in the Southwestern United States and Defining a New ca. 1.5-1.4 Ga Mesoproterozoic Orogenic Event-the Picuris Orogeny.”
(See attached flyer)

EAPS PRESENTATIONS & TALKS

Terry West attended the Leadership Planning session for the Indiana Academy of Science in Indianapolis on Saturday, Sept. 29, 2012 where the Section Chairs of the Academy planned the annual meeting of IAS to be held March 9, 2013 in Indianapolis. Dr. West is the Vice Chair of the Engineering Section, one thirteen sections that hold separate technical sessions at the annual meeting. Dr. West, a Fellow of the Academy, served as its President in 2002.

Angel Torres-Valcarcel, EAPS Phd Candidate, offered a talk about the "Sustainable Schools Program" SSP to local Department of Agriculture personnel and the directors of the Domestic Garden Festival in Puerto Rico. Representatives of the three organizations visited a SSP aspiring school and later discussed collaboration opportunities combining agricultural projects with environmental protection.

CAMPUSS-WIDE SEMINARS

ASTRONAUNT PRESENTATION

Friday, October 19, 8:00pm – 9:00pm, Class of 1950 Lecture Hall, Public presentation by NASA Astronauts Andrew Feustel and Scott Tingle.

Saturday, October 20, 9:30am – 10:30am, Elliott Hall of Music, Public presentation by NASA Astronauts Andrew Feustel, Scott Tingle and David Wolf.
(See attached flyer for more information)

Monday, October 22, 3:30, Fowler Hall, STEW Ctr.
"Designing Resilience in a Black Swan World.” Discovery Lecture Series, Purdue University.
(See attached flyer for more details)

EAPS ALUMNI EVENTS

Monday, November 5th – Border Grill, Mandalay Bay Resort and Casino, Las Vegas from 6 – 9 pm
(See attached flyer for this event)

Wednesday, December 5th – ThirstyBear Brewing Company, San Francisco from 7 – 9 pm

WRITE WINNING GRANTS WORKSHOP

Presented by Dr. David Morrison of Grant Writers’ Seminars and Workshops, LLC, November 16, 2012 STEW Center, Room 302; 8:30AM-4:30PM.
(For more information and register, see attached)

2012-2013 Library Scholars Grant Program

Information and guidelines for proposals are outlined in attached information. All proposals must be submitted by email to Carole Tolley, tolleyc@purdue.edu, with the Subject: Library Scholars Grant, due Friday, Nov. 16, 2012 at 5:00 pm.
(See attached for all details.)
A delegation consisting of four professors from National Taiwan University visited Purdue on October 3. The members are:
Dr. Ching-Hua Lo, Professor of Geochemistry and Vice President for Academic Affairs
Dr. Hsiao-Wei Yuan, Professor of Forestry and Resources Conservation and Dean for International Affairs
Dr. Shang-Hsien Hsieh, Professor of Civil Engineering and Associate Dean for International Affairs
Dr. Chun-Yen Chang, Professor of Horticulture and Landscape Architecture

The purposes of their visit are to seek future collaborative research and academic exchange of faculty/students between the two universities. They had visited and talked to the professors in the School of Civil Engineering, School of Electrical and Computer Engineering, School of Mechanical Engineering, Department of Horticulture and Landscape Architecture, Department of Chemistry, and Department of Earth, Atmospheric, and Planetary Sciences. They also met and had lunch with Dr. Mike Brzezinski and professors from the above Schools and Departments.

Being an isotope geochemist, Professor Lo was particularly interested in our Department. He had collaborated with Dr. Ken Ridgway and Dr. Shieh in the past. He was sorry not seeing Dr. Ridgway this time because Ken was out of town, but he was very happy to see his colleague and old friend, Dr. Shieh. The delegation spent two full hours talking to Professors Filley, Granger, Michalski, Nowack, Zhuang, and Shieh. In addition, Dr. Bethany Theiling showed them the stable isotope facilities in our Department, and Dr. Darryl Granger showed the AMS facilities in the PRIME Lab of Physics. They were very much impressed. Prof. Lo indicated that either himself or his colleagues at NTU would like to spend their sabbatical at Purdue in the near future. Their visit would certainly pave the road for future collaboration and exchange of scholars between Purdue and NTU.


IMPACT Cohort - Spring 2013 Call for Applications

The Call for Applications for the Spring 2013 IMPACT cohort is now open! The deadline for applications is Friday October 26th, 2012.
http://www.purdue.edu/impact/apply.html
If you have questions regarding the IMPACT program or need additional information, contact Chantal Levesque-Bristol, Director, Center for Instructional Excellence, Professor, Educational Studies.

Dow AgroSciences: Aid to Education Grant

Last year DAS provided the College of Science with $7,500 for the following: Sponsorship of ChemTeens Conference, WISP Mentoring Dinner Sponsorship, and the STEM ABC Programming Sponsorship.

CoS is looking to increase the number of projects that are funded and include more innovative projects that allow DAS scientists the ability to interact with our students. K-12 outreach, undergraduate research opportunities, career mentoring, competition sponsorship, and lecture series support are all areas that have been funded around campus over the years. Applications Guidelines:
1) Brief description of the program, areas DAS may be involved, projected outcomes (2 paragraph maximum)
2) Ask Amount ($5,000 limit)
3) Projected date of program (eg. Fall 2013)
4) Deadline: Friday, October 19, 2012 to Tammy Siemers (tsiemers@purdue.edu)

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 more information.)
Faculty, Staff and Grad Students!
Center for Instructional Excellence – Fall 2012
College Teaching Workshops

Series I: Building on the Basics (Take one, several or the entire series!)  
(For more information, see ‘Series I’ attached flyer)

* EAPS GRADS *
TWO TRAVEL GRANTS AVAILABLE

Andrews and Blosser Environmental Travel Grants  
November 9, 2012 – deadline

The Andrews Environmental Grant was established in honor of Dr. Frederick N. Andrews to support research focused on improving the world environment.

The Blosser Environmental Grant was established in honor of Russell O. Blosser to support graduate students majoring in an area of environmental sciences. Preference is given to students affiliated with the Chi Chapter of Kappa Sigma Fraternity. Follow directions for submissions at http://www.gradschool.purdue.edu/funding/

FULBRIGHT SCHOLAR ANNOUNCEMENTS

1) 2012-13 Core Fulbright Scholar Program scholar lists available ONLINE beginning October 1, 2012. To view a list of grantees by institution, academic discipline, host country and state, please visit: http://www.cies.org/schlr_directories/

2) NEW PROGRAM: United Kingdom International Education Administrators Seminar (UKIEA) – Deadline February 1, 2013. For more information, visit http://www.cies.org/IEA/ and contact Tanya Janes at tjanes@iie.org


NORTHERN ILLINOIS UNIVERSITY  
POSITION OPENING

Tenure Track Appointment in Earth Science Education. Applications due November 30, 2012 with a starting date of August 13, 2013. For additional information, see the attached and/or more information about the department, click the link: www.niu.edu/geology/

UNIV. OF TORONTO, CANADA,  
POSITION OPENING

The Department of Earth Sciences, University of Toronto, invites applications from outstanding individuals for a tenure-stream appointment at the rank of Assistant Professor.

The appointment will begin on July 1, 2013. Applicants must have a PhD or be near completion.

All application materials should be submitted online, please visit http://oufo.me/academicopportunities_job #1201005. For more information about the Department of Earth Sciences, please visit our home page at: www.es.utoronto.ca

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. (See attached for more details)

MONTANA STATE UNIVERSITY,  
POSITION OPENING

Montana State University has a tenure track opening for an Assistant Professor in Geomorphology through a joint appointment in the Department of Earth Sciences and the Institute on Ecosystems (IOE).

Screening of applications will begin on November 15, 2012 and will continue to be accepted until a suitable candidate is hired. Inquiries can be directed to: Dr. David Mogk, Head Dept. Earth Sciences, mogk@montana.edu

(See attached for more details)

NSF “East Asia & Pacific Summer Institutes” (EAPSI)  
US GRAD STUDENTS

The National Science Foundation’s “East Asia & Pacific Summer Institutes” (EAPSI) for US graduate students pursuing science and engineering.

The goals of the EAPSI program are to provide students with first-hand research experiences in Australia, China, Japan, Korea, New Zealand, Singapore or Taiwan towards an introduction to the science, science policy, and scientific infrastructure of the respective location plus an orientation to the society, culture and language. The primary goals of EAPSI are to introduce students to East Asia and Pacific science and engineering in the context of a research setting, and to help students initiate scientific relationships that will better enable future collaboration with foreign counterparts.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5284

There are scores of host universities, some which are Purdue partners. The direct link follows for convenience. http://www.nsf.gov/od/oise/eapsi-host-lists-all.jsp

Please note that Cyndi Lynch, PU Grad School, is the coordinating official for this program. The application deadline this year is Nov. 8, 2012.
ExxonMobil will be on campus October 18-19 to interview M.S. and Ph.D. students who are interested in petroleum geoscience-related careers in areas associated with: Exploration, Development, Production, Geophysics Specialties, and Research. They will be interviewing students for both regular employment and internships.

Please submit an application, 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 Kincade in Room 2169D/HAMP.

In addition, Bob Stewart, Recruiter for ExxonMobil, will also conduct a pre-interview presentation on Thursday, October 18 at 5:00pm in Room 2201/HAMP. (See posted flyer for additional details.)

Graduate Research Fellowship Program (GRFP)

Application Deadline(s) (submitted by 8 p.m. Eastern Standard Time):
November 13, 2012: Engineering; Computer and Information Sciences and Engineering; Materials Research
November 14, 2012: Mathematical Sciences; Chemistry; Physics and Astronomy
November 16, 2012: Social Sciences; Psychology; STEM Education and Learning
November 19, 2012: Life Sciences; Geosciences

The Hertz Foundation

Graduate Fellowships, for innovators in the Applied Physical, Biological, and Engineering Sciences. Deadline is November 2, 2012. Apply online: www.hertzfoundation.org
(See attached for more details.)

A Note from Our Academic Counselor

DLRC Internship Callout

Tues. Oct. 16 - Thurs. Nov. 8

The Discovery Learning Research Center offers several undergraduate internship opportunities. Attend one of the several callouts (listed at the above link) for more information on part-time spring internships.

Consider the Science Undergraduate Laboratory Internship Program (SULI) at Oak Ridge National Laboratory (ORNL)!

We are now accepting application for the 2013 Summer Program. The deadline to apply is January 10 - apply online now at http://science.energy.gov/wdts/suli/how-to-apply/

ORNL is the largest science and energy laboratory in the Department of Energy system. Scientific programs focus of materials, neutron sciences, energy, high-performance computing, systems biology and national security. Visit http://www.youtube.com/watch?v=NSCdUJ8cavw to discover some exciting reasons why ORNL offers a great internship experience!

Benefits of the spring SULI program include:
- 10 weeks (June 3-August 9) engaged in a research project under the direction of a laboratory scientist or engineer
- career development workshops
- laboratory tours
- stipend of $500 per week
- travel reimbursement (for those who qualify)
- housing allowance (for those who qualify)

Contact Julie Malicoat at Julie.Malicoat@orau.org for additional information! (See attached flyer)

Krell Institute Prestigious Graduate Fellowship – Now accepting applications

The Department of Energy Computational Science Graduate Fellowship (DOE CSGF) program provides outstanding benefits and opportunities to students pursuing doctoral degrees in fields of study that use high performance computing to solve complex science and engineering problems.

The program fosters a community of bright, energetic and committed Ph.D. students, alumni, DOE laboratory staff and other scientists who share a common desire to impact the nation while advancing their science. Fellowship students represent diverse scientific and engineering disciplines but the common thread is their use of mathematical and computing techniques for their research. The specific objectives of the DOE CSGF program are:

- To help ensure an adequate supply of scientists and engineers appropriately trained to meet national workforce needs, including those of the DOE, in computational sciences.
- To make national DOE laboratories available for practical work experiences for fellows ensuring cross-disciplinary experience in highly productive work teams.
- To strengthen collaborative ties between the national academic community and DOE laboratories so that the multidisciplinary nature of the fellowship builds the national community of scientists.
To raise the visibility of careers in the computational sciences and to encourage talented students to pursue such careers, thus building the next generation of leaders in computational science.

At a Glance: DOE CSGF Program Benefits:
- $36,000 yearly stipend
- Payment of full tuition and required fees
- Yearly conferences
- $5,000 academic allowance in the first fellowship year
- $1,000 academic allowance each renewed year
- 12-week research practicum
- Renewable up to four year

How to Apply:
The annual DOE CSGF application process begins in October with the opening of the online application system. It concludes the following April when formal acceptance is required of those selected to comprise the newest class of program fellows.

Outside of the typical October through April application timeline depicted below, interested persons can register to be notified by email when the application is once again online. Regardless of the time of year, those interested in applying for the fellowship can always contact a member of the DOE CSGF program staff for answers to specific questions.

Applications for the next class of fellow are due on or by January 8, 2013. For more information regarding the fellowship and to access the online application, visit http://www.krellinst.org/csgf/.

Purdue Journal for Undergraduate Research
"Involved in undergraduate research? Interested in having your research findings published? The Journal of Purdue Undergraduate Research (JPUR) is preparing for its third publication and wants to help you write an abstract to submit for publication. On October 17 in HICKS B848 join them for the "Writing Winning Proposals" workshop; pizza and soda are provided. Email Journal Coordinator Elizabeth Hudson at jpur@purdue.edu with any questions or visit www.jpur.org to learn more about the journal.” The next publication submission deadline is Nov. 15, 2012. (See flyer)

October Birthdays
Ernie Agee – 2nd
Phil Smith – 2nd
Jeff Trapp – 3rd
Wen-Yih Sun – 4th
Wen-wen Tung – 8th
Dev Niyogi – 18th
Sonia Lasher-Trapp – 22nd
Kathy Kincade – 24th
Wanitta Thompson – 30th

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 EAS 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 (thompsow@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 EAS 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.
Proterozoic orogenic belts in the southwestern United States reflect a long-lived convergent margin that was active between 1.8 and 1.0 Ga and may have included Baltica and Australia/Antarctica. Much of the southward growth of the continent during this 800 m.y. period is thought to have occurred during two cycles of accretionary orogenesis—the ca. 1.78–1.70 Ga Yavapai and ca. 1.68–1.60 Ga Mazatzal orogenies—during which a >1000 km wide zone of generally juvenile crust was added along the margin.

New detrital zircon data add to recent discoveries that presumed Paleoproterozoic metamorphic rocks in northern New Mexico, in fact, have Mesoproterozoic protolith ages and require that deposition occurred after ca. 1.49 Ga. The ca. 1.49–1.45 Ga depositional ages, the similar deformation histories for both Paleoproterozoic and Mesoproterozoic units, an apparent lack of evidence for unconformities, and a predominance of metamorphic ages between ca. 1.46 and 1.40 Ga all suggest that these supracrustal rocks experienced one dominant regional metamorphism and deformation event during the Mesoproterozoic. Evidence for a clockwise P-T loop with peak pressures estimated at 3.5–4.5 kbar together with megascopic fold-and-thrust geometries in the 1.49 Ga and younger metasedimentary units are consistent with significant crustal thickening at this time. These processes are the hallmarks of an orogenic event that we call the Picuris orogeny based upon the evidence for Mesoproterozoic deposition, deformation and regional metamorphism documented in the Picuris mountains.
Purdue Space Day
“An Evening With The Astronauts”

FREE and OPEN to the Public!!
Where: Class of 1950 Lecture Hall
When: Friday, October 19th
8pm-9pm

With Purdue Astronauts: Andrew Feustel and Scott Tingle
Designing Resilience in a Black Swan World

Abstract: Black Swan events are those with low or unknown probability, but high and long-lived and often global impacts. They affect financial markets, climate, public safety, and human health and more. This talk is about how we begin to design communities, regions, and nations to improve resilience and prosperity in the face of these “Black Swan” events. Professor Orr’s lecture will examine a case study, the Oberlin Project, and the National Sustainable Communities Coalition.

David W. Orr

Paul Sears Distinguished Professor of Environmental Studies and Politics and Senior Adviser to the President, Oberlin College

David W. Orr is one of our generation’s leading environmental philosophers and educators. His career as a scholar, teacher, writer, speaker, and entrepreneur spans fields as diverse as environment and politics, environmental education, campus greening, green building, ecological design, and climate change.

He is the recipient of seven honorary degrees and other awards including a Lyndhurst Prize acknowledging “persons of exceptional moral character, vision, and energy.” Dr. Orr is the author of seven books, including “Down to the Wire: Confronting Climate Collapse” (Oxford, 2009), co-editor of three others, and nearly 200 articles, reviews, book chapters, and professional publications. He is the executive director of the Oberlin Project, an editor of the journal Solutions, and is a high level adviser to four grandchildren ages 2-12.

Monday
Oct. 22, 2012
3:30 pm
Fowler Hall
Stewart Center

Free & open to the public

For More Information
Visit www.purdue.edu/discoverypark/dls/ | Contact Cindy Ream: cream@purdue.edu | 765-494-0015
Summer of Applied Geophysical Experience

The reception will be from 6:00 – 9:00 p.m. at the Border Grill, Mandalay Bay Resort and Casino, 3950 Las Vegas Blvd. South, Las Vegas, Nevada 89119 (702) 632-7200. You do not need to register for the SEG meeting in order to attend. The reception is being sponsored by SAGE and the Department of Earth, Atmospheric, and Planetary Sciences, Purdue University.

We welcome SAGE students, former students, SAGE supporters, and friends of SAGE. Please join us to celebrate the 30th year of SAGE! We also welcome Purdue EAPS faculty, students and alumni, and friends of Purdue EAPS.
**Write Winning Grants Workshop**
Presented by Dr. David Morrison of *Grant Writers’ Seminars and Workshops, LLC*
November 16, 2012
Stewart Center, Room 302; 8:30AM-4:30PM

**About This Workshop**
Again this academic year, Purdue is pleased to host the highly acclaimed grant writing program facilitated by Dr. David Morrison. This workshop addresses both practical and conceptual aspects important to the proposal writing process. This full-day (Phase I) workshop is designed for faculty and administrators who have had some exposure to writing grant applications. Emphasis is given to such things as idea development, identification of the most appropriate granting agency, how to write for reviewers, and tips and strategies that are of proven value in presenting an applicant’s case to reviewers.

The workshop provides intensive grant writing training interspersed with specific details by agency. Participants will also choose one of four workbooks which provide agency specific grant writing tips and suggestions. The choices include: National Institutes of Health, National Science Foundation, US Dept. of Agriculture, or “Any Agency”, which covers agencies other than NIH and NSF. The cost of each book is $75, expect for “Any Agency” which is $70.

An intensive Phase II workshop will also be available for up to 30 participants, who must be referred by their Associate Dean for Research. Participants in this program must have attended the Phase I workshop either this year or last year. Additional information on Phase II and how to participate will be distributed at a later date.

**About the Presenter**
Dr. David Morrison, Ph.D. is co-founder and member of Grant Writer’s Seminars and Workshops, LLC. He received his Ph.D. from Yale in Molecular Biology and Biophysics and was a postdoctoral research fellow at National Institutes of Health and Scripps Research Institute. Dr. Morrison has held faculty positions at Scripps Research Institute, Emory University School of Medicine, University of Kansas Medical Center, and Saint Luke’s Hospital of Kansas City/University of Missouri-Kansas City.

**To Register**
Registration is required by Thursday, November 1 at: [http://www.purdue.edu/research/vpr/rschdev/events.php](http://www.purdue.edu/research/vpr/rschdev/events.php). There is no cost to participants for the workshop; however, the participant’s college will be responsible for the cost the of the workbook so those registering are expected to attend. You must attend the workshop to receive your workbook. If you register and find that you cannot attend, please contact Mary Ryker (mlryker@purdue.edu) as soon as possible.

A buffet-style lunch will be provided.

**Questions**
Contact Sue Grimes (sprimes@purdue.edu) if you have any questions.
To: Vice Presidents, Deans, Department Heads

From: James L. Mullins, Dean of Libraries, West Lafayette

Date: September 24, 2012

Subject: 2012-2013 Library Scholars Grant Program

I am pleased to announce the 2012-2013 Library Scholars Grant Program. Eligibility for the program includes not only untenured tenure-track Purdue faculty, but also Purdue associate professors tenured effective July 1, 2010 and later. Grant recipients are not eligible for an award in consecutive years. Underwritten by the Class of 1935, the program is designed to help untenured tenure-track and recently tenured Purdue faculty gain access to library materials necessary for research required for their continued growth as faculty members. The focus of the program is to support access for these faculty members to unique collections of information around the country and the world.

Just as people come to Purdue to use our unique collections, the research of Purdue faculty may require visiting unique collections beyond Purdue and thereby incurring travel-related expenses and fees charged by the library or other collection owner for access, photocopying, scanning, etc. The Library Scholars Grant Program offers an opportunity for untenured tenure-track Purdue faculty and recently tenured Purdue associate professors in all disciplines, and from all Purdue campuses and the Statewide Technology Program, to receive support for such activities. Purdue faculty at the Fort Wayne and IUPUI campuses are those within “Purdue mission” programs; i.e., for whom the promotions process falls under Purdue. Awards will vary in amounts of up to $5,000.

Please share the enclosed information with the untenured tenure-track members of your faculty, and with associate professors tenured effective July 1, 2010, or later, and encourage them to consider the potential relevance of the Libraries Scholars Grant Program to their scholarly information needs.

Att: Announcement and guidelines for proposals
Purdue University Libraries announces
the 2012-2013 Library Scholars Grant Program
underwritten by the Class of 1935

The Purdue University Libraries will continue the Library Scholars Grant Program this year with a focus on supporting access to unique collections of information around the country and the world. Awards of up to $5,000 will be made for this purpose to untenured tenure-track members of the Purdue faculty, and to associate professors tenured effective July 1, 2010, or later, with grant-supported activities to be completed by December 31, 2013. The Library Scholars Grant Program is made possible through the generosity of the 50th anniversary gift of the Class of 1935, and continuing gifts from this class and others, to an endowment fund in the Purdue Research Foundation.

The Library Scholars Grant Program is designed to provide grants to untenured tenure-track Purdue faculty members and recently-tenured associate professors, to help them gain access to library materials necessary for research required for their continued growth as faculty members. Just as people come to Purdue to use our unique collections, the research of Purdue faculty may require visiting unique collections beyond Purdue. The Library Scholars Grant Program offers an opportunity for support for such activities to untenured tenure-track members of the Purdue faculty, and to Purdue associate professors tenured effective July 1, 2010, or later, in all disciplines, from the West Lafayette, Calumet, Fort Wayne, IUPUI, and North Central campuses, and the Statewide Technology Program. (Purdue faculty at the Fort Wayne and IUPUI campuses are those within “Purdue mission” programs; i.e., those for whom the promotions process falls under Purdue.)

Each Library Scholars Grant recipient will be asked to present a seminar about the information-related activities supported by the grant. The seminars will permit the Libraries to learn from recipients’ experiences in order to better serve both Purdue scholars and those from outside Purdue who visit our collections.

The 2012-2013 Library Scholars Grant Program awards will be in amounts of up to $5,000. The funds may be used for expenses associated with travel to archives or collections beyond Purdue, including the cost of transportation, lodging, meals, and fees charged by the library or other collection owner for access, photocopying, scanning, etc. Reimbursement will be made, for approved expenditures, up to the amount of the award.

Criteria used to judge the proposals will include how well the case is made that the proposed information-related activities will support the candidate’s research and that conducting these activities requires travel to unique collections beyond Purdue, the appropriateness of the budget, and the feasibility of the project within time constraints. Proposals will be evaluated by a panel chaired by a tenured member of the Libraries faculty and composed of tenured faculty and one or more previous winners, with recommendations made to the Dean of Libraries. Award recipients will be contacted in December 2013.

The guidelines for proposals are outlined below.

All proposals must be submitted by email to Carole Tolley, tolleyc@purdue.edu, with the Subject: Library Scholars Grant, no later than 5:00pm, Friday, November 16, 2012.
Overview
The Library Scholars Grant Program, administered by the Purdue University Libraries, focuses on supporting access for untenured tenure-track members of the Purdue faculty, and associate professors tenured effective July 1, 2010, or later, to unique collections of information found around the country and the world. Awards of up to $5,000 will be made to for this purpose, with grant-supported activities to be completed by December 31, 2013.

The Library Scholars Grant Program is designed to provide grants to untenured tenure-track Purdue faculty members, and recently tenured associate professors, to help them gain access to library materials necessary for research required for their continued growth as faculty members. Just as people come to Purdue to use our unique collections, the research of Purdue faculty may require visiting unique collections. The Library Scholars Grant Program offers an opportunity for untenured tenure-track faculty and recently tenured associate professors to receive support for expenses associated with travel to archives or collections beyond Purdue, including the cost of transportation, lodging, meals, and fees charged by the library or other collection owner for access, photocopying, scanning, etc.

Eligibility
Untenured tenure-track members of the Purdue faculty, and Purdue associate professors tenured effective July 1, 2010, or later, in all disciplines, from the West Lafayette, Calumet, Fort Wayne, IUPUI, and North Central campuses, and the Statewide Technology Program are eligible for Library Scholars Grant Program awards. (Purdue faculty at the Fort Wayne and IUPUI campuses are those within "Purdue Mission" programs; i.e., those for whom the promotions process falls under Purdue.) Grant recipients are not eligible for an award in consecutive years.

Proposal contents and format
1) Cover page with the following information:
   a) Name
   b) Rank and title
   c) Date of appointment to the Purdue faculty
   d) Department
   e) College
   f) Campus address
   g) E-mail
   h) Phone number
   i) Name and address of Head of Department
   j) Name and address of Dean of College/School
   k) Name of Purdue Libraries faculty member or other Purdue Librarian from whom the applicant is submitting a letter of support (see #4)
   l) Total amount of funding the applicant seeks from the Library Scholars Grant Program
   m) Additional funding (grants, departmental funds, etc.), if any, available to the applicant to support the information-related activities for which a Library Scholars Grant is being sought

2) One-page narrative stating the following:
   a) Area of research;
   b) Related information needs that require using collection(s) beyond Purdue;
   c) Information-related activities to be undertaken
   (Note: The award may be used for expenses associated with travel to archives or collections beyond Purdue, including the cost of transportation, lodging, meals, and fees charged by the library or other collection owner for access, photocopying, scanning, etc.);
   d) Projected timeline; and
e) Expected outcome(s) of the information-related activities, i.e., how they would support the applicant’s research.

3) **Budget.** Itemizing proposed activities and their estimated costs, and showing total.
   The following websites should be used to estimate lodging, meals and incidentals.
   -- For U.S. General Services Administration – Domestic destinations:
     http://www.gsa.gov/portal/content/105307
   -- For U.S. Dept. of State – Foreign destinations:
     http://aoprals.state.gov/content.asp?content_id=184&menu_id=81

4) **Letter of support** from a Purdue Libraries faculty member, or other Purdue librarian, with whom applicant has consulted regarding the information needs and information-related activities reflected in the proposal. In the letter, the librarian should briefly state the reasons the applicant cannot meet the information needs by using Purdue collections and electronic information resources and, therefore, needs to travel to unique collections beyond Purdue.

5) **Brief resume** (3 pages maximum).

6) **List of publications**

**Reporting requirements**
A brief report or presentation on the information-related activities accomplished as a result of the award, and their significance to the research of the recipient, must be sent to the Dean of Libraries by February 15, 2014. Additionally, each individual awarded a Library Scholars Grant will be asked to present a seminar about the activities supported by the grant. The seminars will permit the Libraries to learn from recipients’ experiences in order to better serve both Purdue scholars and those from outside Purdue who visit our collections.

**Funding**
Awards will be in given in amounts of up to $5,000, with reimbursement, for approved expenditures, up to the amount of the award. The Libraries Business Office will coordinate reimbursement with the grant recipient’s business manager. Expenses may be reimbursed as they occur over the course of the project, with grant-supported activities to be completed by December 31, 2013. All requests for reimbursement, accompanied by appropriate documentation, must be received in the **grant recipient’s departmental business office** no later than February 15, 2014.

**Criteria for judging proposals**
Criteria used to judge the proposals will include how well the case is made that the proposed information-related activities will support the applicant’s research and that conducting these activities requires travel to unique collections beyond Purdue, the appropriateness of the budget, and the feasibility of the project within time constraints. Proposals will be evaluated by a panel chaired by a tenured member of the Libraries faculty and composed of tenured faculty and one or more previous winners, with recommendations made to the Dean of Libraries. Award recipients will be contacted in December 2012.

**Proposal deadline**
All proposals must be submitted by email to Carole Tolley, tolleyc@purdue.edu, with the Subject: **Library Scholars Grant**, no later than 5:00pm, Friday, November 16, 2012.

Questions should be submitted to Carole Tolley, Office of the Dean, Purdue University Libraries – ADMN, email: tolleyc@purdue.edu., telephone: 765-494-2900; fax: 765-494-0156,
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
College Teaching Workshops – Series I: Building on the Basics
For Faculty, Staff and Graduate Students
Take one, several, or the entire series!

Student-Teacher Relationships
Strategies you can use to foster good relationships with your students. Common disruptive student behaviors, and techniques for handling classroom crises.

Tuesday, September 4, 9:00-10:30 am - POTR 141

The Nuts & Bolts of Setting Rules for Your Course
Key University policies that relate to teaching at Purdue, including how to create an attendance policy, handle make-up work, and avoid grade appeals.

Tuesday, September 11, 9:00-10:30 am - POTR 141

Designing a Course From Scratch
The basics of designing a course from scratch using course goals and objectives, activities to meet your objectives, and measurements to see if your students have achieved them.

Tuesday, September 18, 9:00-10:30 am - POTR 141

How to Avoid Giving a Bad Presentation
Strategies for preparing and delivering an effective presentation. How to attract your students’ attention, improve your presentation techniques, and build effective PowerPoint presentations.

Tuesday, September 25, 9:00-10:30 am - POTR 141

Micro-Teaching: Practice Your Teaching
In this workshop, you’ll present a short lesson to a group of your peers who will role-play the students in your class. Besides getting feedback on your presentation, you’ll have a videotape to include in your teaching portfolio.

Contact CIE to register.
Tuesday, October 2, 8:30-10:30 am

Getting Feedback to Improve Your Teaching
Ways to get feedback from your students that will improve learning, tweak your teaching, and teach your students to take responsibility for giving people feedback.

Tuesday, October 16, 9:00-10:30 am - POTR 141

Creating the Engaged Classroom: Discussion Techniques
Engaging your students in the learning process using think-pair-share, group discussions, and small group work.

Tuesday, October 23, 9:00-10:30 am - POTR 141

Tools and Techniques for Creating Effective Tests
How to avoid writing test questions that your students might consider to be “picky,” “tricky,” or “ambiguous.” What goes into making a good test, and how tests can be used to enhance student learning.

Tuesday, October 30, 9:00-10:30 am - POTR 141

Why Didn’t I Get an “A”? Using Subjective Tests and Assigning Grades
The benefits and challenges of using (and grading) subjective tests. Practice creating a rubric to use when grading student projects.

Tuesday, November 6, 9:00-10:30 am - POTR 141

Are Your Students Cheating? How to Prevent and Respond
Ways to prevent academic dishonesty (and other academic integrity issues) and find resources to deal with a cheating incident should one occur.

Tuesday, November 13, 9:00-10:30 am - POTR 141

Find us on facebook
Center for Instructional Excellence
Ernest C. Young Hall, Room 730
www.purdue.edu/cie
cie@purdue.edu

Register for Series I Workshops – click on title
Northern Illinois University invites applications for an anticipated tenure-track position in Earth Science Education with secondary science teacher certification, at the rank of Assistant Professor with a starting date of August 16, 2013. The successful candidate will hold a joint position with the NIU Center for Secondary Science and Math Education (CSSME) and the Department of Geology and Environmental Geosciences. Both teacher certification credentials (either state certification or teaching experience in a US high school) and a PhD in geology or related area are required at the time of appointment. Teaching duties will include graduate and undergraduate courses, including teacher certification classes, in earth sciences. The successful candidate will also be expected to develop a nationally recognized and externally funded research program either in earth science education and/or an area of geology. For additional information about the position and the Geology & Environmental Geosciences Department, see www.niu.edu/geology/. Applications including CV, statement of teaching and research interests, and 3 letters of recommendation should be submitted electronically to: Paul Stoddard, Earth Science Education Search Committee Chair, Geology & Environmental Geosciences, via teachgeology@niu.edu. Applications will be considered until the position is filled but first preference will be given to applications received by November 30, 2012. NIU is an AA/EEO Institution that values diversity in its faculty, staff and students: we strongly encourage applications from diverse candidates including women and minorities. A state-mandated pre-employment criminal background investigation is required.
The Department of Earth Sciences, University of Toronto, invites applications from outstanding individuals for a tenure-stream appointment at the rank of Assistant Professor. The appointment will begin on July 1, 2013 and is in fields of geology applied to the formation/evolution of the Earth’s solid crust, preferably those related to metamorphic processes. This may include, for example, candidates engaged in mineralogy/petrology, structural geology, geochemistry, economic geology and mineral deposits, or cross-disciplinary research in these general areas. Applicants must have a PhD or be near completion.

In addition to establishing an internationally recognized independent research program, the successful candidate must have a strong commitment to teaching. He/she will be expected to teach introductory geoscience courses and graduate and upper level undergraduate courses in fields related to their specialization, and conduct field-based teaching of undergraduate and graduate students. Candidates must display evidence of excellence in teaching and research. Salary to be commensurate with qualifications and experience.

All application materials should be submitted online, please visit http://uoft.me/academicopportunities Job #1201005. Applications should include a cover letter, curriculum vitae, including a list of publications and a brief statement describing the applicant’s research program and teaching philosophy. Applicants should also ask three referees to send letters directly to: geol_sec@es.utoronto.ca by the closing date, November 1, 2012. For more information about the Department of Earth Sciences, please visit our home page at: www.es.utoronto.ca

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.
Montana State University has a tenure track opening for an Assistant Professor in Geomorphology through a joint appointment in the Department of Earth Sciences and the Institute on Ecosystems (IOE). The faculty member will be responsible for developing and maintaining an extramurally funded, nationally recognized research program and teach in their area of expertise within the broad field of earth surface processes. Applicants with interests in, but not limited to, surficial processes influencing natural and/or altered ecosystems and climate change, mountain/glacial geomorphology, fluvial/watershed geomorphology and/or tectonic geomorphology are encouraged to apply. The faculty member will participate in teaching undergraduate and graduate courses in their area of specialization, introductory Earth Science courses, and mentoring graduate and undergraduate students. The faculty member will also be responsible for providing service to the university and scientific community and integration of research, teaching, and service. For more information see:
Department of Earth Sciences www.montana.edu/wwwes/
Institute on Ecosystems: www.montanaioe.org

Required Qualifications:
· Ph.D. in Geology, Geography or a related discipline.
· Potential to establish an externally-funded, competitive, and independent research program.
· Demonstrated ability to conduct and publish high-quality and original research, as indicated by publication in peer-reviewed journals
· Demonstrated or potential for excellence in undergraduate and graduate instruction and mentoring. You will be expected to teach introductory and upper division courses in your area of emphasis.
· Demonstrated potential or ability to work collaboratively in interdisciplinary teams, and a willingness to develop research that includes Montana and the western U.S.
· Excellent writing skills as evidenced by peer reviewed publications and/or awarded grants, excellent speaking/teaching skills as evidenced by national and/or international oral presentations and teaching experience.

Preferred Qualifications:
· State-of-the-art research program using quantitative, field based and/or modeling approaches to study surficial processes in mountain and high plains ecosystems.
· Research program that complements and expands current Department of Earth Sciences and IoE research initiatives.
· Evidence of broader outreach and communication skills in translating research topics beyond traditional university and professional forums.
· Evidence of effective engagement with diverse audiences within and outside the University.

Screening of applications will begin on November 15, 2012 and will continue to be accepted until a suitable candidate is hired. Inquiries can be directed to: Dr. David Mogk, Head Dept. Earth Sciences, mogk@montana.edu.
ExxonMobil will interview students interested in petroleum geoscience-related careers in these areas:

| Exploration | Development | Production | Geophysics Specialties | Research |

Applicants are required to fill out an online application and post a copy of their resume on our website one week prior to interviewing with our campus recruiter. **We do not accept hard copy applications.** Copies of transcripts should also be posted on the website or brought to the interview. At this stage of the process, "unofficial" school versions of transcripts will be accepted as attachments to the online submittal. The ExxonMobil website is [www.exxonmobil.com/apply](http://www.exxonmobil.com/apply).

The recruiters will conduct a pre-interview presentation on October 18 at 5:00pm in Room 2201/HAMP.

**Candidates for Regular Employment:**

For those interested in careers in Exploration, Development and/or Production, we will be interviewing graduate students receiving a MS or a PhD degree in Geology or Geophysics. In addition, we will be interviewing graduate students who are interested in geophysics specialties such as seismic acquisition or processing, and working with specialty applications (velocity models, seismic attribute analysis, AVO analysis, etc.).

For those interested in careers in Research, we will be interviewing graduate students receiving a PhD degree and post-doctoral fellows in the following areas: Geology, Geophysics, Math, Electrical Engineering, Physics and Computer Science.

**Candidates for Internships:**

We are very interested in interviewing students who meet the following requirements:

- Will be completing their MS or PhD degree program within one year (two years for research) after their internship.
- Ability to work approximately three months.

Internships are available throughout the year. Although we will give preference to those students graduating in 2013 or 2014, we will be happy to discuss career opportunities with other students as the interview schedule permits.

**ELIGIBILITY INFORMATION APPLICABLE TO CANDIDATES FOR REGULAR AND INTERNSHIP EMPLOYMENT**

Applicants must have the right to work in the United States. Under certain circumstances, visa sponsorship may be available for applicants with an M.S. and/or a Ph.D. degree in certain research or geophysical specialty disciplines. If you fit the above criteria and are interested, please utilize the [www.exxonmobil.com/apply](http://www.exxonmobil.com/apply) website for your application and/or ask one of our campus recruiters for specific details.

Applicants for internship must have the legal right to work in the U.S. during the period of the internship. If you are interested in regular U.S. employment after your internship, you must be able to meet the regular U.S. hiring criteria at the time of regular U.S. hiring.

Individuals who have authorization to work in countries where ExxonMobil has geoscience staff such as Angola, Nigeria, Europe, Malaysia, Indonesia, Russia, and the Middle Eastern countries, may be considered for employment by our affiliates in these locations and should sign up to interview for such employment. Students currently attending school in the U.S. who are authority to work in one of the above countries and are interested in these opportunities should utilize the [www.exxonmobil.com/apply](http://www.exxonmobil.com/apply) website.

**ExxonMobil is an Equal Opportunity Employer**
World Class Science. Big Ideas.
All we need is You!

Internships • Collaborations • Research Experiences
Undergraduates • Grad Students • Postdocs • Postgrads • Faculty • Teachers

Each year we host over 1,000 educational participants from over 40 countries to work on cutting-edge research side-by-side with ORNL scientists and engineers at the U.S. Department of Energy’s largest science and energy laboratory.

Interested in learning more?
www.orau.org/ornl

Fan our Facebook Page:
Science Education Programs at Oak Ridge National Lab

Follow us on Twitter
@Govinternships
# Opportunities

**Internships, Fellowships, Research Experiences, Collaborations**

<table>
<thead>
<tr>
<th>POSTDOCS and other Recent Grads</th>
<th>UNDERGRAD</th>
<th>GRAD STUDENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Postdoctoral Research Associates</strong></td>
<td>Participate in research with ORNL Principal Investigators. Generally there is no citizenship requirement; see the individual posting for details. These positions are primarily for one-year appointments and may be renewed. A Ph.D. degree is required. Postdoc experiences are primarily within five years from the date of PhD award.</td>
<td><strong>Higher Education Research Experiences (HERE) for Students</strong></td>
</tr>
<tr>
<td><strong>Post-Master’s Research Participation Program</strong></td>
<td>Similar to the Postdoc program, but targeted mainly to Post-Master’s. Generally there is no citizenship requirement; see the individual posting for details. These positions are primarily for one-year appointments and may be renewed. Primarily for those within five years from their degree award.</td>
<td><strong>DOE Science Undergraduate Laboratory Internships (SULI)</strong></td>
</tr>
<tr>
<td><strong>Post-Bachelor’s Research Participation Program</strong></td>
<td>Similar to the Postdoc program, but targeted mainly to Bachelor’s degree recipients. Generally there is no citizenship requirement; see the individual posting for details. These positions are primarily for one-year appointments and may be renewed. Must be within three years from Bachelor’s degree award.</td>
<td><strong>Laboratory Technology Program (TECH)</strong></td>
</tr>
<tr>
<td><strong>Advanced Short-Term Research Opportunity (ASTRO)</strong> The ORNL Advanced Short-Term Research Opportunity Program is a highly selective program and offers challenging short-term research opportunities to recent recipients of master’s and doctoral degrees to conduct research in areas that support ORNL missions in the basic and applied sciences, energy, and environment. No citizenship requirements. Appointment are for six months and may be renewed one time for up to three months.</td>
<td><strong>DOE Community College Institute (CCI)</strong> A nationwide internship experience available to students from community colleges at a national laboratory. Open to both U.S. citizens and legal permanent residents during the 10-week summer term.</td>
<td><strong>Nuclear Engineering Science Laboratory Synthesis (NESLS)</strong></td>
</tr>
<tr>
<td><strong>Higher Education Research Experiences (HERE)</strong></td>
<td>Open to both U.S. citizens and legal permanent residents who have completed a Bachelor’s degree within the past year, plus Master’s and PhD students performing thesis or dissertation research. Applications are always accepted; however the preferred dates are February 1 for summer, June 1 for fall, October 1 for winter/spring.</td>
<td><strong>Visiting Faculty Program (VFP)</strong></td>
</tr>
<tr>
<td><strong>Nuclear Engineering Science Laboratory Synthesis (NESLS)</strong></td>
<td>Cooperative research initiative geared towards physics and engineering students and recent BS graduates with a minimum GPA of 3.0/4.0 enrolled at a U.S. University. No citizenship requirement. Application deadline varies by semester.</td>
<td><strong>Higher Education Research Experiences (HERE) for Faculty</strong></td>
</tr>
<tr>
<td><strong>K-12 STUDENTS and TEACHERS</strong></td>
<td>Appalachian Regional Commission (ARC) The Appalachian Regional Commission/ORNL Summer Institute for Math, Science, &amp; Technology is a two-week summer program that provides high school students and teachers from the Appalachian region the opportunity to work with scientists at ORNL. Students and teachers must be nominated by their school.</td>
<td><strong>Advanced Short-Term Research Opportunity (ASTRO)</strong> See description in POSTDOCS and other Recent Grads.</td>
</tr>
</tbody>
</table>

**NOTE:** Complete eligibility and program requirements can be found on our website at [www.orau.org/ornl](http://www.orau.org/ornl)
ATTENTION ALL UNDERGRADS!

Doing research? Want to get published?

WRITING WINNING PROPOSALS

- A **call-out** and **abstract-writing workshop** for anyone interested in submitting an article proposal for the *Journal of Purdue Undergraduate Research (JPUR)*.

- Learn about JPUR, the submission process, and the benefits of publishing your research.

- Have you been thinking about submitting, are just getting started, or want some feedback on your draft? Get practical tips, receive one-on-one consultation, and leave with a draft in hand.

Wednesday, October 17
5:30–6:30 p.m.
HIKS B848

FREE PIZZA AND SODA!

[www.jpur.org](http://www.jpur.org)