The Weekly News

November 19, 2012

Upcoming MEETINGS

Monday, November 19, 1:00-2:00, HAMP 2201
Gold Team Meeting

Monday, November 26, 1:30, HAMP 2173
Graduate Committee Meeting

Thanksgiving Holiday
THURSDAY & FRIDAY,
November 22-23, Offices Closed
WEDNESDAY – FRIDAY, November 21-23, No Classes

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

Congratulations!

The following Grad students were awarded a $500 travel grant from the Department of Earth, Atmospheric, and Planetary Sciences and the Women in Science Programs!

- Ruth F. Aronoff
- Grace Conyers
- D. Sarah Stamps
- Christine M. Kassab
- Rachel Gipe

EAPS RECENT PRESENTATIONS


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Members of the Severe Weather Research Lab (SWRL) gave the following presentations at the American Meteorological Society’s 26th Conference on Severe Local Storms, held November 5-8 in Nashville, TN:

Improving tornado intensity estimates using operational Doppler weather radar Mallie Toth, Purdue University, and R. J. Trapp, K. A. Kosiba, and J. Wurman

Assessment and prediction of seasonal tornado activity: A status update and application to the 2011 and 2012 warm seasons Robert J. Trapp, Purdue University, and M. E. Baldwin and H. E. Brooks

Trends in Severe Thunderstorms from High-Resolution Dynamical Downscaling and an Artificial Neural Network Eric D. Robinson, Purdue University, and R. J. Trapp and M. E. Baldwin

Evidence of upscale feedback from recent tornadic storms Joseph M. Woznicki, Purdue University, and R. J. Trapp

Probabilistic forecasts of severe convection with a WRF-DART analysis and convection-permitting forecast system Logan C. Dawson, Purdue University, and G. Romine, S. Tessendorf, and C. S. Schwartz

Mapping Social Vulnerability to Landfalling Hurricanes in the Atlantic Basin Dereka Carroll, NCAR, Dallas, TX; and J. M. Done, D. Ahijevych, and G. Villarini

Former SWRL members Dusty Wheatley (M.S. 2004, Ph.D 2007), Karen Kosiba (Ph.D. 2009), and Nathan Hitchens (Ph.D. 2010) were present, as were numerous other EAPS alumnae, including Darrel Kingfield, Angie Lese, Tony Reinhart, Kevin Van Leer, and Matt Eastin.

NEW SHORT COURSE


NEW FIELD COURSE – STUDY ABROAD

New International Study Abroad Course, Maymester 2013. Jointly with Stockholm Sweden. (See attached flyers for each)
**EAPS ALUMNI EVENTS**

**PURDUE EAPS 5th Annual Reception Invitation**
Wednesday, December 5th, 7:00-9:00 pm
ThirstyBear Brewing Company, San Francisco,
(See attached flyer for this event)

**PURDUE EAPS Alumni & Friends Reception**
2013 AMS Reception Invitation
Tuesday, January 8, 6:30-8:30 pm
Hilton Austin, 500 E. 4th Street, Austin, Texas.
(See attached flyer)

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**2013 REQUEST FOR PROPOSALS**
Indiana Water Resources Research 104B Grant Program
Submission Deadline: Wednesday, November 28, 2012

The Indiana Water Resources Research Center (IWWRC) invites faculty from all Indiana colleges and universities to submit proposals for possible funding in all areas of water resources. The IWRRC grant program is supported via an annual grant from the U.S. Dept. of Interior, U.S. Geological Survey, as part of the federal Water Resources Research Act of 1984 (Program 104B). This program provides a base of support for Indiana’s water resource research needs.
(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)

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**EAPS GRADS**
TRAVEL GRANT AVAILABLE

**PURDUE SCIENCE**
2013 College of Science Graduate Student International Travel Awards
Deadline: November 30, 2012
Send apps to Tammy Siemers: tsiemers@purdue.edu
(See attached flyer for details)

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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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**Purdue Research Center - RSA is looking for you!!**
For part time students at the AFCC (Anti-Fraud Command Center) at the Purdue Research Center! This part time position is a great way to earn money and gain real work experience!
APPLY NOW!!: Send your resume to afcc-hr@rsa.com and linda.greco@emc.com. We will schedule an immediate phone interview. (See attached flyer for more details)

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**CALL FOR ESSAYS & CREATIVE PROJECTS**
6th Annual Undergraduate Ethics Symposium
At DePauw University
April 11-13, 2013
Symposium Theme: “Ethics & the Environment”
(See attached flyer for details)

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**AAAS Annual Meeting Fellowship**
For students and early career scientists who are enrolled in, or employed at, U.S. institutions to attend the 2013 AAAS Annual Meeting in Boston, Feb. 14-18, 2013.
Please submit the following items by Dec. 1, 2012 to Ester Sztein (ESZtein@nas.edu) or John All (john.all@wku.edu).
(See attached flyer for more details and application form)

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**A Note from Our Academic Counselor**
International Opportunities

**AWMA Winter Technical Meeting**
Booke Halvorson Myer (BS, MS) sent the following: “I am currently the Education Chair for the Indiana Chapter of the Air & Waste Management Association and we are hosting our 10th Annual Winter Technical Meeting on December 13th in Indianapolis. Did you know that Purdue has the only active student chapter of the A&WMA in the state of Indiana!? I am trying to encourage as many students to not only join PAWMA (Purdue Air & Waste Management Association) but also to take advantage of the discounted student attendance rate ($15) for this upcoming meeting. This is an excellent opportunity for students to network with some of the top environmental professionals in Indiana! With the economy as difficult as it has been in the past few years, it's never too early to start making those connections for future employment. “

The agenda for the upcoming meeting is at the end of the Newsletter, and this is the link to online registration:
http://www.inawma.org/registration.asp. Lunch is provided at the meeting.

**Summer Research Internship in Germany**
RISE (Research Internships in Science and Engineering), is a summer internship program for undergraduate students from the United States, Canada and the UK in the fields of biology, chemistry, physics, earth sciences and engineering. It offers unique opportunities for undergraduate students to work with research groups at universities and top research institutions across Germany for a period of 2 to 3 months during the summer.
RISE interns are matched with doctoral students whom they assist and who serve as their mentors. The working language will be English. All scholarship holders receive stipends from the DAAD to help cover living expenses, while partner universities and research institutes provide housing assistance.

RISE hopes to accept as many students as possible for a summer internship in Germany. However this is a scholarship program, and there are only limited funds available. Each year they have to turn away many students that apply to this program. In 2013 they hope to have 300 interns. The online database for applicants will be opened on December 6th, 2012. To learn more about RISE, please visit: http://www.daad.de/rise/en/index.html.

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### November Birthdays

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<tr>
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<td>Nowack</td>
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<tr>
<td>Shepson</td>
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**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/](http://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 EAPS Technology Support staff, please visit [http://www.purdue.edu/eas/info_tech/index.php](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](http://calendar.science.purdue.edu/eas/seminars).
New Short Course  
**Cosmogenic Nuclides, Geomorphology, Quaternary Geology**  
**Spring 2013**

EAPS 591: Cosmogenic Nuclides in Geomorphology and Quaternary Geology, 1 credit  
Spring 2013.

Jointly with Stockholm University.

Over the past 25 years, nuclides produced in situ in terrestrial materials have become a key tool for studying the timing and rates of surficial processes. This course will cover the fundamentals of the use of cosmogenic nuclides in surficial processes, and will emphasize their use in paleoclimate reconstruction, erosion studies, and dating of buried sediment. Other topics may also be covered, time permitting. The course will be jointly taught with Stockholm University, Sweden, via videoconferencing technologies. Students will have the opportunity to work collaboratively with Swedish students to foster exchange of ideas and provide experience with cross-cultural collaboration. The course is open to juniors, seniors and graduate students and may be particularly useful for students with an interest in late Cenozoic Earth history.

Timing:  
MWF 10:30-12:30, from January 21st to February 20th, 2013

Inquiries regarding the course can be directed to Dr. Brent Goehring (bgoehrin@purdue.edu) or Dr. Jon Harbor (jharbor@purdue.edu)

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New Field Course – Study Abroad  
**Field Methods in Quaternary Geology and Geomorphology**  
**Maymester 2013**

New International Study Abroad Course, Maymester 2013.  
Jointly with Stockholm University.

An international field course is being offered May 23-June 6, 2013, in Sweden and Norway taught jointly with Stockholm University. Students will receive instruction in Quaternary Geology (landforms and deposits) and field methods. We encourage students taking the Cosmogenic nuclides short course to also take the Study Abroad program, however this short course is not a prerequisite for the study abroad program. The study abroad program is intended for juniors and seniors majoring in geology as well as graduate students with interests in geomorphology and Quaternary geology. Prior course work in surface processes and a field methods course, or equivalent experience, are required. The cost for the study abroad will be $1,000, which includes airfare, ground transportation, and accommodation. This study abroad can be combined with the study abroad in Italy directed by Dr. Ogg by traveling directly from Sweden to Italy.

Inquiries regarding the course can be directed to Dr. Brent Goehring (bgoehrin@purdue.edu) or Dr. Jon Harbor (jharbor@purdue.edu)
Alumni, students & friends!

Join us for the
5th annual Purdue Reception
at the ThirstyBear Brewing Co.

Date: Wednesday, December 5, 2012
Time: 7:00 pm - 9:00 pm
ThirstyBear Brewing Co.
UPSTAIRS in the BILLAR ROOM
661 Howard Street, San Francisco, CA

For more information, please contact the
Department of Earth, Atmospheric, and Planetary Sciences
at 765-494-3258
Plan to Join
Earth Atmospheric Planetary Sciences

for our annual
Alumni & Friends Reception

Tuesday, January 8, 2013
6:30 - 8:30 pm

Hilton Austin
500 E 4th Street
Austin, Texas

No RSVP required
Contact 765-494-3258 for more information
2013 REQUEST FOR PROPOSALS

Indiana Water Resources Research 104B Grant Program
Submission Deadline: Wednesday, November 28, 2012

PROGRAM DESCRIPTION
The Indiana Water Resources Research Center (IWWRC) invites faculty from all Indiana colleges and universities to submit proposals for possible funding in all areas of water resources. The IWRRC grant program is supported via an annual grant from the U.S. Department of Interior, U.S. Geological Survey, as part of the federal Water Resources Research Act of 1984 (Program 104B). This program provides a base of support for Indiana’s water resource research needs. Note: we have not received official notification for 2013 program and funding delays are possible.

PROJECT AREAS
The program supports research in all areas related to water, including: biology, microbiology, ecology, hydrology, civil engineering, agriculture, irrigation, geology, wildlife management, and aquatic chemistry. Project areas of particular importance to Indiana this year include: (a) enhancement of the quality of Indiana’s rivers with a priority interest in work in the Wabash River Watershed, (b) water treatment, (c) cutting edge areas such nanomaterials, (d) riparian area protection, (e) water reuse, including a consideration of status of water reuse laws and (f) outreach and extension work pertaining to protection of water supplies.

PROPOSAL DETAILS
Research proposals are competitively reviewed using an external peer review process. The reviewers will use the following criteria in assigning a final rank: 1) Technical Merit, proposal quality and feasibility (70%); 2) Applicability to Indiana’s needs (20%); 3) Educational and/or outreach opportunities generated by the project (5%) and 4) Capability of the PI(s) (5%). Highly valued projects will also include activities with dissemination of results to the public.

The IWRRC grant application should have a March 1, 2013 start date (see below), 12 month duration and can be up to $15,000 per project. We anticipate funding four to five projects this year. A nonfederal match of 2:1 is required. Indirect costs are not allowed on the Federal cost category (Public Law 101-397, Water Research Institutes Authorization). However, indirect costs can be used to provide part of the non-federal match. The awards are administered through IWRRC and are contingent upon Congressional approval of FY2013 funds for the National Institutes for Water Research program which has not yet been appropriated.

PROPOSAL FORMAT GUIDELINES
The proposal must contain the information outlined below (Attachment 1) which includes an executive summary, the proposal, and additional documentation. Please submit the full proposal in the order outlined in Attachment 1.
SEND TO
This year we are attempting to be 100% electronic in our submission process. Please send an
electronic copy of the completed proposal (MS-Word document only, not in PDF format) to Dr.
Ronald Turco at (rturco@purdue.edu) by November 28, 2012. (Indicate the PI’s NAME- IWRRC 2013
proposal in the header.) We will respond with an email once we receive your submission. If needed
we may latter ask for paper copies of the proposal with official signatures from the applicant’s
university. Please include a matching fund commitment letter signed by authorized institutional
official.

Purdue University
Indiana Water Resources Research Center
Attn: Dr. Ronald Turco, Director
G120 Lilly Hall
915 West State Street
West Lafayette, IN 47907

PROPOSAL and BUDGET QUESTIONS
Proposal questions may be addressed to Ronald Turco, 765.494.8077, rturco@purdue.edu

WWW.IWRRC.org

Note:
Please note that as of November 1, 2012 we have not yet received an appropriation for this program for FY
2013 and it is possible that we will not have an appropriation by January 15. However, for planning purposes,
assume that the start date will be March 1, 2013.
**ATTACHMENT 1**

### Executive Summary
*Items a-i must fit on no more than one page, unnumbered, with 1-inch margins all around. Do not include letters as part of heading for each section (Use 12 pt font and one inch margin and 2 pages total):*

a. Title  
b. Focus categories (see below for list)  
c. Keywords  
d. Project duration (include start and end date)  
e. Funding requested  
f. Matching funds pledge  
g. Principal Investigator(s) Name and affiliation (full contact information for the lead PI)  
h. Congressional District  
i. Abstract (300 words)  
j. Statement of critical regional or state water problem  
k. Statement of results/benefits

### Main Body of Proposal
*The proposal must fit on no more than 5 pages including figures and graphs*

a. Title. Please use the same title as above.  
b. Statement of critical regional or state water problem. Include explanation of the need for the project.  
c. Statement of results or benefits. Specify the type of information that is to be gained, and how it will be used.  
d. Nature, scope, and objectives of the project. Include a brief timeline of activities.  
e. Methods, procedures, and facilities. Provide enough information to permit evaluation of the technical adequacy of the approach to satisfy the objectives.  
f. Related research.  
g. Student training.  
h. Expected deliverables. Include information dissemination plan.  
i. References cited.

### Additional Documents
1. CV of all investigators (NSF format not to exceed 2 pages/PI)  
2. Budget justification (attachment 3)  
3. Budget Summary (attachment 4)  
4. Documentation of institutional approval of the proposal.  
5. Matching fund commitment letter signed by authorized institutional official

**FISCAL GUIDELINES.** As in years past, the proposal budgets must reflect a $2 non-federal match for each federal dollar requested. Please contact your college pre-award details but the match may include actual contributions, in-kind contributions and overhead costs. (Indirect costs may not be charged on the federal...**
funding request in this program, although the match may include the indirect costs forgiven on the federal dollars.)

**ATTACHMENT 2**

<table>
<thead>
<tr>
<th>Focus Categories</th>
<th>Abbreviations</th>
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<td>ACID DEPOSITION</td>
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<td>Total costs at other university campus</td>
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**ATTACHMENT 4**

**BUDGET JUSTIFICATION**

Project Title:

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<th><strong>Salaries and Wages</strong></th>
<th>Provide estimated hours and the rate of compensation proposed for each individual.</th>
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<td><strong>Fringe Benefits</strong></td>
<td>Provide the overall fringe benefit rate applicable to each category of employee proposed in the project.</td>
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<td><strong>Supplies</strong></td>
<td>Indicate separately the amounts proposed for office, laboratory, computing, and field supplies.</td>
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<tr>
<td><strong>Equipment</strong></td>
<td>Identify non-expendable personal property having a useful life of more than one year and an acquisition cost of more than $5,000/unit. If fabrication of equipment proposed, list parts and materials required for each, and show costs separately from the other items.</td>
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<tr>
<td><strong>Services or Consultants</strong></td>
<td>Identify specific tasks for which these services would be used. Estimate amount of time required and the hourly or daily rate.</td>
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<td><strong>Travel</strong></td>
<td>Provide purpose and estimated costs for all travel including details on per diem rates an estimated cost of lodging etc.</td>
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<td><strong>Other Direct Costs</strong></td>
<td>Itemize costs not included elsewhere, including publication costs. Costs for services and consultants should be included and justified under “Services or Consultants (above).</td>
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<tr>
<td><strong>Indirect Costs</strong></td>
<td>Provide negotiated indirect (“Facilities and Administration”) cost rate.</td>
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</table>
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
2013 College of Science
Graduate Student International Travel Awards

Deadline: November 30, 2012
For travel between January 1, 2013 and June 30, 2013

~ 2 or 3 awards ranging from $600 to $800 for international travel will be awarded~

Prerequisites:
- must be a full-time PhD student
- must be making an oral or poster presentation at an international conference

Priority will be given to:
- travel to make an oral presentation at a conference
- attendance at an interdisciplinary conference
- students who have passed their prelims

To apply, please send electronically as one file:
- CV (2 page limit)
- brief summary of research (1 page limit)
- brief statement of purpose for attending conference specifying whether your presentation is oral or poster
- provide web link to conference
- with a letter of support from research advisor as a separate electronic document

Send applications to Tammy Siemers at tsiemers@purdue.edu
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

- 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
RSA is looking for you!!

We are looking for part time students at the AFCC (Anti-Fraud Command Center) at the Purdue Research Center!

This part time position is a great way to earn money and gain real work experience!

We want talented Students with an affinity for internetworking to join the RSA Consumer Solution’s 24*7 Anti-Fraud Command Center (AFCC) which provides online fraud detection to the first tier financial institutions in the world!

You will be trained to detect and analyze online threats and act according to AFCC procedures to deploy counter measures, block and shut down the threat.

Responsibilities:
- Detect phishing attacks
- Analyze new fraud trends and technologies
- Forensics analysis and research
- Shut down fraudulent websites
- Communicate with customer to update on attack status

Shifts hours:  Choose any 3 shifts/week out of the 35 shifts to choose from (you can vary the shifts week to week)
Morning: 7:30-11:45 AM    11:30 AM-3:45 PM
Evening: 3:30PM-7:45PM     7:30PM-11:45 PM
Night:  11:30PM-7:45 AM

Requirements:
- 0 -1 years experience
- Graduate or undergraduate students graduating in 2014,2015, 2016
- Technical knowledge in the Internet world
- Detail oriented & analytical ability
- Very strong interpersonal & communication skills
- Previous experience in Internet companies, help desk – an advantage
- Commitment to work for the center for 1 year BONUS after 2 years!

Training starts January 11th. On site interviews will be at Purdue in early December 3 – 7th.

APPLY NOW!!: Send your resume to afcc-hr@rsa.com and linda.greco@emc.com and we will schedule an immediate phone interview.

You may see our position on line at http://emc.com/college Click “apply now” and search requisition “94247”.
We look forward to connecting!
CALL FOR ESSAYS & CREATIVE PROJECTS

6th Annual Undergraduate Ethics Symposium at DePauw University - April 11-13, 2013

Symposium Theme: “Ethics & the Environment”
We also accept and encourage submissions in all areas of ethical inquiry.

Highlights:
- Symposium held at the Prindle Institute for Ethics, located in a 500 acre Nature Park.
- Participating students attend seminars with visiting scholars and artists.
- Students’ travel (up to $400), lodging and meals while at DePauw will be covered.

Submissions:
Deadline: February 1, 2013
- Accepted submissions can be
  - Analytic essays (3,500 word max.)
  - Works of fiction (3,500 word max.)
    - Poetry (5-10 poems)
  - Plays (up to 10 pages in length)
  - Photographs (approx. 10 photos)
  - Films/documentaries (up to 10 min. long)

Please send submissions to Nicki Hewell at prindleues@depauw.edu

For More Information:
Please visit our website www.depauw.edu/academics/centers/prindle or call us (765) 658-5021.
Geology and Geography section of AAAS (Section E) is excited to announce an AAAS Annual Meeting Fellowship for students and early career scientists who are enrolled in, or employed at, U.S. institutions to attend the 2013 AAAS Annual Meeting in Boston, to take place on February 14-18, 2013. This Fellowship is intended to encourage young scientists to be more involved with the AAAS. There will be a variety of programs of interest at the Meeting, and the Section will organize a social event where the awardees will meet other members and Fellows of the Section. Participation at this Meeting will allow awardees to attend career development activities, the chance to meet with other geoscientists, and the opportunity to have a look at what is new in other sciences and in science policy. For this program, early career scientists are defined as those within 3 years of receiving their Ph.D. Each award is anticipated to be a maximum of $1,000. To apply, please submit the following items by December 1, 2012 to Ester Sztein (ESztein@nas.edu) or John All (john.all@wku.edu).

- A short application: including a cover letter addressing your reasons for attending the meeting and a prioritized budget of expenses
- 1-page résumé
- A transcript of your coursework to date (students only)
- If you are presenting a poster, provide a copy of the approved abstract

**FUNDING:**
A limited number of travel fellowships of up to $1,000 will be available. By accepting the award, all successful applicants agree to submit a short online post-meeting report describing the value of attending the AAAS meeting for their career by March 15, 2013.

**DEADLINE:**
Applications are due by December 1, 2012. Please email applications to: ESztein@nas.edu or john.all@wku.edu. Award decisions will be communicated directly to the awardees by January 4, 2013.

**Application Form:**

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