

February 6, 2012

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## Upcoming MEETINGS

### Every Monday

- EAS Gold Mine Committee, CIVL 2201 (Noon)

### Tuesday, February 7

- EAS Rock Display Comm, CIVL 2201 (3:30pm)

### Thursday, February 9

- Schlumberger Info Session, CIVL 2201 (6:30pm)

### Monday, February 13

- EAS Undergrad Comm, CIVL 2201 (9:00am)
- EAS Grad Comm, CIVL 2201 (11:00am)

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## Upcoming EAS SEMINAR

**Thursday, February 9, 2012 at 3:30 p.m. in CIVL 1252:** "A Statistical Perspective on Climate Problems." Bo Li, Purdue University. (Abstract)

Refreshments at 3:00 p.m. in CIVL 2201

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## Upcoming EAS PhD DEFENSE

**Wednesday, February 8, 2012 at 10:00 a.m. in CIVL 2201:** "Policy Applications of a Highly Resolved Spatial and Temporal Onroad CO<sub>2</sub> Emissions Data Product for the U.S.: Analysis and their Implications for Mitigation." Daniel Mendoza Lebrun.

**Monday, February 20, 2012 at 9:00 a.m. in CIVL 2201:** "3D Modeling of Time-harmonic Seismic Waves via a Massively Parallel Structured Multifrontal Solver and Applications." Shen Wang.

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## RECENT EAS PUBLICATIONS

**Huber, M. and A. Goldner**, 2012, Eocene monsoons, *Journal of Asian Earth Sciences*, 44, 3-23, doi: 10.1016/j.jseaes.2011.09.014.

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## RECENT EAS PRESENTATIONS

Angel Torres Valcarcel, EAS PhD Candidate offered a talk entitled "Environmental Sustainability, Ecological Footprint and the Sustainable Schools Program" to Middle & High School teachers from San German Puerto Rico on February 3, 2012

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## CAMPUS-WIDE SEMINARS & EVENTS



### Research Speaker Series On International Competitiveness

Dr. Baiyin Yang, Chair of the Department of Human Resources and Organizational Behavior, School of Economics and Management, Tsinghua University will speak on the topic of "**Confucianism, Socialism, and Capitalism: A Comparison of Cultural Ideologies and Implied Managerial Philosophies and Practices in the P.R. China**" on Wednesday, February 8, Rawls 3082, from 3:00-4:30pm. Interested faculty, Ph.D. and masters students are encouraged to attend. A reception will follow from 4:30 – 5:00 in Rawls 4013.

### GPRI Global Connections Lecture Series

Ambassador Marwan Muasher will be visiting the Purdue University campus on February 19-21, 2012.

He will be presenting a lecture on *The Arab Awakening: One Year On* on Monday, February 20th at 7:30 p.m. in Stewart Center's Fowler Hall (flyer attached).

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## INDIANA ACADEMY OF SCIENCE

IAC is holding its 127<sup>th</sup> Annual Academy Meeting on March 10, 2012 at Purdue University. To register visit [www.indianaacademyofscience.org](http://www.indianaacademyofscience.org)

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## GRANT INFORMATION

**The Fulbright Scholar Program for 2013-2014** is offering teaching, research or combination teaching/research awards in over 125 countries for the 2013-2014 academic year. Opportunities are available for college and university faculty and administrators as well as for professionals, artists, journalists, scientists, lawyers, independent scholars and many others. There are awards in 45 specific academic disciplines as well as 167 awards open to all disciplines. Interested faculty and professionals are encouraged to participate in one of our weekly webinars. Each deals with a topic germane to the 2013-2014 competition, from regional and discipline information to how to fill out an application. For more information, visit our website at <http://www.cies.org/Webinar/>. The application

deadline for most awards is August 1, 2012. U.S. citizenship is required. For other eligibility requirements and detailed award descriptions visit our website at [http://www.cies.org/us\\_scholars/us\\_awards/](http://www.cies.org/us_scholars/us_awards/) or contact us at [scholars@iie.org](mailto:scholars@iie.org).

### **First Call for Proposals in New US-UK-India Higher Education Partnership**

The British Council is excited to announce the first trilateral strand of the successful UK-India Education and Research Initiative (UKIERI) with the launch of the new Trilateral Research in Partnership (TRIP) Awards with the United States. Ten awards of up to £50,000 (USD \$75,000) in funds will be available to support multidisciplinary research projects between UK, US and Indian higher education institutions. This new UKIERI strand aims to support the increase of mobility of PhD and post-doctoral students in all three countries, and develop sustainable institutional links between the institutions. Funds are available to support projects of up to two years. Proposals are welcome across subject areas, including the humanities, social sciences, science and technology, and multidisciplinary research projects. All proposals will need to include details of additional contributions from the three institutions involved. Proposals must be supported by UK, US and Indian institutions and endorsed by the respective heads of department or equivalent.

The deadline for online submissions of proposals is 13 April 2012 with the aim to notify successful applications by the end of June 2012. Program information from: Libby Rosenbaum, HE Partnerships Manager, British Council. ([libby.rosenbaum@britishcouncil.org](mailto:libby.rosenbaum@britishcouncil.org)). For more information, please contact: Alexandra Dimsdale, Head of Press and Communications [alexandra.dimsdale@britishcouncil.org](mailto:alexandra.dimsdale@britishcouncil.org)

### **CUTTING EDGE WORKSHOPS**

*On the Cutting Edge* virtual events that will help you to develop effective teaching strategies in support of student learning. If you are an early career geoscience faculty working to develop effective classes, OR if you are a graduate student or post-doc developing your teaching philosophy and writing your teaching statement for academic job applications, then these interactive webinars are for you. There is no cost to participate, but registration is required to save a space.

[http://serc.carleton.edu/NAGTWorkshops/careerdev/AcademicCareer2012/feb\\_2012.html](http://serc.carleton.edu/NAGTWorkshops/careerdev/AcademicCareer2012/feb_2012.html)

### **February 15, 2012 (Wednesday): Learning to learn – What will they remember in 5 years? {with Karl Wirth}**

2 pm Eastern. Registration deadline: February 8.

### **March 9, 2012 (Friday): Linking goals, assessment and teaching strategies to promote effective learning {with David McConnell}**

2 pm Eastern. Registration deadline: March 2.

### **April 10, 2012 (Tuesday): Setting goals for effective and innovative courses {with Barb Tewksbury}**

1:30 pm Eastern. Registration deadline: April 3.

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### **GRADUATE SCHOOL PROFESSIONAL DEVELOPMENT WORKSHOPS**

**February 8**, Job Fairs & Conference Networking, Noon – 1:00 pm

**February 15**, Speed Networking, Noon – 1:00 pm

**February 16**, Social Media, 6:30 – 8:00 pm

To register for workshops go to

[www.gradschool.purdue.edu/workshops](http://www.gradschool.purdue.edu/workshops)

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### **SCHLUMBERGER VISIT TO EAS**

Winston Anyanwu, Schlumberger, will present an informational session at 6:00 pm on Thursday, February 9<sup>th</sup> in CIVL 2201 (food provided). All who are interested in pursuing a career with Schlumberger are welcome to attend.

On Friday, February 10<sup>th</sup>, Schlumberger will be conducting interviews in the department. They would like to meet with students who fit the following criteria:

- graduating from Dec 2010 to October 2012
- studying Earth Sciences, Geology & Geophysics at all degree levels (BS, MS, PhD)
- The positions are open to US citizens and permanent residents, refugees, asylum status, F1 (International) students (Schlumberger sponsors potential international students for certain positions).

If you are interested in job opportunities with Schlumberger, you must apply online in their **Geoscience & Petrotechnical** career group at [careers.slb.com](http://careers.slb.com) for their **students and recent graduates**. Also, please send your resume directly to Winston at: [wanyanwu@slb.com](mailto:wanyanwu@slb.com).

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## JOB / INTERNSHIP ANNOUNCEMENTS

### 2012 Biosphere 2

#### NSF Research Experiences for Undergraduates

If you are, or know of, an undergraduate in search of research experience this summer, please have a look at the University of Arizona Biosphere 2 NSF-funded REU program. Biosphere 2 has a truly interdisciplinary faculty, and students have the opportunity to collaborate on many projects across ecology, biogeochemistry, geomorphology, hydrology, and Earth systems modeling, all while living on site at the one and only Biosphere 2. Many projects are linked to the nearby UA NSF Critical Zone Observatory ([www.czo.arizona.edu](http://www.czo.arizona.edu)), and/or the forthcoming Biosphere 2 Landscape Evolution Observatory ([leo.b2science.org](http://leo.b2science.org)).

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### A NOTE FROM OUR ACADEMIC COUNSELOR

#### PUMA

The January 2012 PUMA newsletter is attached—see end of the Newsletter for news and ways to connect with PUMA.

#### Purdue Promise

Purdue Promise is a program designed to help students succeed at Purdue. This year we are looking for students who are motivated to help us accomplish this goal. We have several positions available to make use of your skills, all of which look fantastic on a resume and include you in an exciting community of fellow student leaders and professional staff. Applications for all position are due by 8:00 AM on **February 13**, 2012. Nancy has additional information; if interested, email her for the complete job description(s).

#### Academic Position

If you rock your classes and think you can help others to do the same, consider applying for our Academic Resource Guide position. As an Academic Resource Guide, you will have weekly meetings to provide academic coaching for students who want to improve their GPA.

- Get PAID \$8.50 an hour, 8 hours a week
- Both positions require a 3.0 cumulative Purdue GPA.

#### Leadership Positions:

Build your resume by proving you have what it takes to communicate, motivate and get the job done. Be a Peer Facilitator or a College Access Advocate.

- **College Access Advocates** support, mentor and advocate for potential Twenty-first Century Scholars by interacting with 7<sup>th</sup>-12<sup>th</sup> graders. 2.5 cumulative GPA preferred.
- **Peer Facilitators** help to teach first-year and sophomore level courses. Lead discussions and help design lesson plans. 2.5 GPA required, although 2.7 is preferred.

#### Mentoring Positions:

You've been through that first year and you know its unique challenges and rewards. Be mentor and help others do the same. As a **Mentor**, you are matched with mentees according to similar interests. You keep in touch with them, inviting them to social events, meeting for one-on-one interactions.

If you are interested in any of the above positions or want to get more information, visit the website.

Apply online at

[http://www.purdue.edu/sats/purdue\\_promise/student\\_leaders/index.html](http://www.purdue.edu/sats/purdue_promise/student_leaders/index.html) or email [Sabrina Brown at \[sabrinab@purdue.edu\]\(mailto:sabrinab@purdue.edu\)](mailto:Sabrina.Brown@purdue.edu) with any questions.

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### FEBRUARY BIRTHDAYS!!!

7<sup>th</sup> - Mike Baldwin

14<sup>th</sup> – Andrei Gabrielov

15<sup>th</sup> – Yuch-Ning Shieh

28<sup>th</sup> – Brenda Beitler-Bowen

28<sup>th</sup> – Terry Wade



### IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter will now be 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/](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 Suzanne Zurn-Birkhimer ([zurnbirk@purdue.edu](mailto:zurnbirk@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](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>.



# Earth & Atmospheric Sciences Seminar

## A Statistical Perspective on Climate Problems

**Bo Li**

Purdue University

Statistics has been recognized as a useful tool in climate studies. Climate data can be in the form of either a time series or of a spatial or spatio-temporal process. All these data carry a substantial amount of noise that possibly masks the true physical phenomena. Statistics has been developed particularly for dealing with such noise and thus can be a suitable approach for climate data analysis. This talk will illustrate several examples of tackling problems in climatology, in particular in paleoclimate reconstruction, from a statistical perspective. New statistical methods tailored to particular scientific questions will be presented. Specifically, my examples include quantification of uncertainty in climate reconstruction using ensembles, the effect of measurement errors in data extrapolation, Bayesian hierarchical models to integrate data from different sources, climate regionalization, and comparison of different reconstruction methods using pseudoproxy experiments. Although most of my examples are motivated by paleoclimate questions, the methods I demonstrate can easily be adapted to other problems.

**Thursday, February 9, 2012**

**3:30 p.m.**

**Room 1252, CIVL Bldg**

**PURDUE**  
UNIVERSITY

*Refreshments at 3:00 pm.  
Room 2201 CIVL*

# The Global Policy Research Institute

Presents the

## Global Connections Lecture Series



### Ambassador Marwan Muasher

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#### “The Arab Awakening: One Year On”

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#### ABSTRACT

As the romantic notions that the current Arab uprisings will lead to instantaneous spread of democratic cultures give way to reality, what needs to take place to ensure indeed that a process will emerge, which if not linear, will at least end up achieving the dreams that Arabs have for a better Arab world where more attention is given to build pluralistic societies? What is the future Islam, and how should the West deal with these movements that are willing a plurality of seats in elections held recently in the region? Which countries have the best chances of success so far, which ones are struggling, and why? How can the Arab world build an institutional culture that promotes diversity, tolerance and pluralism? And what effects do the Arab uprisings have on the Arab-Israeli conflict? All these questions will be addressed in an attempt to analyze the historical transformations the region is going through one year on.

#### SPEAKER BIOGRAPHY

**Ambassador Marwan Muasher** is vice president for studies at the Carnegie Endowment, where he oversees the Endowment’s research in Washington and Beirut on the Middle East. Muasher has served as Ambassador (1997-2002), Foreign Minister (2002-2004) and Deputy Prime Minister (2004-2005) of Jordan, and his career has spanned the areas of diplomacy, development, civil society, and communications. Muasher received his BS, MS and Ph.D. degrees from Purdue University in electrical engineering. He also received an honorary doctorate from Purdue in 1999.

**February 20, 2012**  
**7:30 p.m.**

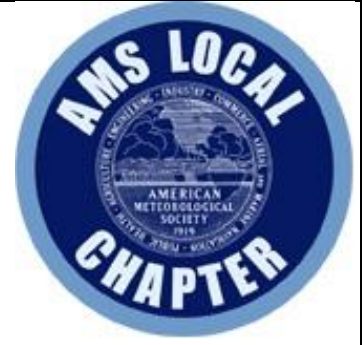
**Fowler Hall**  
**in Stewart Center**

**PURDUE**  
UNIVERSITY.





# Purdue University Meteorological Association



## Announcements:

### Next Meeting

- February 21<sup>st</sup>, 5:30pm
- Location: CIVL 2201
- Mardi Gras party at 5:30
- Dr. Trapp to speak at 6:30
- Regarding 2011 Tornado season

### Dues

- If you didn't pay your dues last semester, it is \$10 to be a full member of PUMA for the remaining school year. If you do not pay, you will not be able to fully participate in some PUMA events.

### Your PUMA Officers:

#### President:

- Layc Brock
- [-lbrock@purdue.edu](mailto:lbrock@purdue.edu)

#### Vice President:

- Alyssa Hendricks
- [-hendria@purdue.edu](mailto:hendria@purdue.edu)

#### Secretary:

- Juan Crespo
- [-crespo@purdue.edu](mailto:crespo@purdue.edu)

#### Treasurer:

- Kristen Fischer
- [-kefische@purdue.edu](mailto:kefische@purdue.edu)



## Welcome Back!

We hope you had a restful and pleasant winter break and that your semester has started off on a good note! A few of our members as well as 2 of our officers were able to soak in the sights and sounds of New Orleans, LA last week at the 92<sup>nd</sup> Annual American Meteorological Society Conference. They came back with new knowledge regarding the advancement of meteorology, as well as being able to effectively communicate with the general public. Our secretary and treasurer also received various ideas from other AMS Local and Student Chapters from across the country that we will be trying out in PUMA this semester and even next year.

It is an exciting time to be a member of PUMA, but we officers cannot do it alone. We need help from you, the members of PUMA, to become more active in order to help PUMA become one of the best local AMS Chapters. Much has changed over the last semester, but more, positive change will be coming, and we want you to be part of it. Join us as PUMA soars through the sky in 2012!

## Have you checked out our new blog?

<http://purdue-weather.blogspot.com/>

For a few years now, needless to say, PUMA has been struggling to maintain a website that has collapsed and collected cyber dust. Therefore, we have gone ahead and created a blog to help keep you updated, as well as posting various weather information. All the officers will be able to post on the blog, but if you wish to post something on there, contact one of us and we will post it for you as long as it is related to the weather or PUMA.

follow us on  
**twitter**



**@Purdue\_Weather**