

GEOBULLETIN  
SEPTEMBER 12TH, 2008

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*The GeoBadger Alumni Reunion*

**From Baraboo to Mars – GeoBadgers in the Field**

September 25-27, 2008  
Weeks Hall, Madison, WI

[http://www.geology.wisc.edu/news\\_events/reunion08/](http://www.geology.wisc.edu/news_events/reunion08/)

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GEOCLUB FALL PICNIC  
FRIDAY, SEPT. 12, AT 5 PM  
GARNER PARK

FOOD AND DRINK PROVIDED  
COST FOR ADULTS = \$7, KIDS FREE

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9th Annual Diversity Forum 2008  
BEYOND PLANS AND PROMISES:  
ACTIVE LEADERSHIP FOR THE FUTURE

September 23, 2008

Register or request accommodations at  
<http://www.diversity.wisc.edu/forums.php>  
or 608-265-2257

Keynote by Dr. Eduardo Bonilla-Silva of Duke University

8:00 a.m. – 3:30 p.m.

Memorial Union

FREE – Everyone is Invited!

- First Nations focus
- poster sessions
- interactive breakout sessions

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Geobulletin is distributed weekly, on Friday by E-mail. Contributions are requested! Anything and everything (well almost) that you want to see in print. If you have a news item, a request, an announcement etc. email it to geodept@geology.wisc.edu. or leave it at the reception desk, Room 236 by noon on Wednesdays.

**LECTURE SCHEDULE** ---- All lectures (unless otherwise noted) are held on Fridays at 3:30 PM in AB20 (Laudon Lecture Hall). Coffee & cookies are served in the lobby starting at 3:15 PM.

### **FALL 2008 WEEKS LECTURE SCHEDULE**

**September 12** ----- “High-resolution cratonic sequence stratigraphy: progress and prospects”

**Patrick I. McLaughlin** - Bedrock Division

Wisconsin Geological and Natural History Survey

**September 19** ----- Henry Pollack --- University of Michigan

On Sept. 18 at 7 PM (supported by the UW Lectures Committee) his talk will be titled

*"Scientific Uncertainty and Climate Policy: Moving on Without All the Answers"*

On Sept. 19 at 3:30 PM (as part of the Weeks Lecture Series) his talk will be titled

*"Earth's Changing Climate: View from Underground"*.

**September 26** ----- Reserve for Alumni event and BOV

**October 3** -----

**October 10** ----- Glenn Spinelli --- New Mexico Tech

**October 17** ----- John Tarduno --- University of Rochester

**October 24** ----- Donald Mkhonto - UW

**October 31** ----- Rick Law – VPI

**November 7** ----- Peter Mozely – New Mexico Tech

**November 14** ----- Steve Wojtal – Oberlin College

**November 21** ----- Joseph Licciardi --- University of New Hampshire

**November 28** ----- Thanksgiving Recess

**December 5** ----- David Deamer

**December 12** ----- Stephen Hasiotis

**December 19** -----

Here is a program for undergrad scholarships.

[http://es.epa.gov/ncer/rfa/2009/2009\\_gro\\_undergrad.html](http://es.epa.gov/ncer/rfa/2009/2009_gro_undergrad.html)

### **POSITION OPENINGS:**

- Tenure-track Position in Solid Earth Sciences -Department of Earth and Environmental Sciences,University of Waterloo
- Associate Lecturer / Lecturer In Geology - Department Of Applied Geology -Curtin University Of Technology,Western Australia
- A vacant 3 year post-doctoral position in mineral physics - University of Cambridge Department of Earth Sciences
- The Department of Geology and Geophysics at the University of Wyoming invites applications for a tenure-track faculty position in the broad field of isotope geology.
- A new Professor level position in Metamorphic Geology will be available from September 2009 at Toulouse, France.
- *Interested in conducting fundamental scientific research to integrate atmospheric, earth, and energy sciences in support of defense and global security? What about solving problems of national importance through the exploration and development of new technologies?*

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If so, the Atmospheric, Earth, and Energy Division (AEED) in the Chemistry, Material, Earth and Life Sciences Directorate has several openings for postdoctoral staff members that may interest you...

- Postdoctoral Fellow, Volcanism in the Arctic System INSTAAR, University of Colorado at Boulder and National Center for Atmospheric Research (NCAR), Boulder

### **POSITION OPENINGS:**

Tenure-track Position in Solid Earth Sciences -Department of Earth and Environmental Sciences  
University of Waterloo

The Department of Earth and Environmental Sciences at the University of Waterloo invites applications for a tenure-track position in the area of solid earth sciences at the level of Assistant to Associate Professor. Appointment at the Full Professor level may be considered under exceptional circumstances. We are seeking an outstanding candidate who will complement and enhance our existing strengths within a growing, dynamic solid earth science research program. We are especially interested in a candidate who is involved in field-oriented studies using multidisciplinary approaches from a regional to global perspective. Research interests may include, but not limited to, tectonics/geodynamics, metamorphic geology, geochemistry, applied mineralogy and geochronology. The successful candidate will be expected to build a vigorous and innovative, externally-funded research program involving graduate students and to participate actively in a comprehensive undergraduate curriculum that spans the breadth of the traditional and environmental earth sciences.

The Department of Earth and Environmental Sciences has a well-funded and diverse research program currently involving 22 full-time faculty, 7 research faculty, 35 research staff and over 100 Ph.D. and M.Sc. students. Further information about the Department can be accessed at <http://www.earth.uwaterloo.ca/>.

Evaluation of candidates will begin December 15, 2008 and continue until the position is filled. A complete application must include a full curriculum vitae, a statement outlining the nature of the research program and teaching philosophy, two to five recent publications and the names and contact information of at least three referees.

The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native people and persons with disabilities. All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. This appointment is contingent on funding. Applications should be directed to the Geology Search Committee Chair, Department of Earth and Environmental Sciences, University of Waterloo, Waterloo, Ontario, N2L 3G1, Canada (email: [klalbrec@uwaterloo.ca](mailto:klalbrec@uwaterloo.ca)).

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ASSOCIATE LECTURER / LECTURER IN GEOLOGY  
DEPARTMENT OF APPLIED GEOLOGY  
CURTIN UNIVERSITY OF TECHNOLOGY  
WESTERN AUSTRALIA

Full-time, Fixed-term - 3 Years - \$49,104 to \$83,299 -Ref: 4483

The Department of Applied Geology at Curtin is seeking to appoint an Associate Lecturer or Lecturer to a three-year fixed-term position (with potential for further appointment depending on performance and funding). The post is based at Curtin's main Bentley Campus, 6 km south of the centre of Perth, and would be suitable for a recent PhD graduate, or a student expecting to complete his or her PhD in the near future. Teaching responsibilities will be primarily at first-year level and we encourage persons with expertise in any area of geoscience to apply. Effective communication skills are essential, and the successful applicant will be expected to contribute to the Department's research profile in his or her area of expertise.

The Department of Applied Geology is one of Australia's largest geoscience departments with over 25 teaching and research staff, 250 full-time equivalent students, and a high-impact research program that spans many areas of fundamental and applied geoscience and is supported by world-class facilities and equipment (see [www.geology.curtin.edu.au](http://www.geology.curtin.edu.au) for details).





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and select the candidate, based on curriculum vitae, a statement of research and teaching interests, and interview.

Professor Position: This is a permanent research and teaching position, starting in September 2009. For a general description of recruitment at the professor level in France, see <http://www.education.gouv.fr/cid1059/professeur-des-universites.html>. Health care and pension program are included in the salary.

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*Interested in conducting fundamental scientific research to integrate atmospheric, earth, and energy sciences in support of defense and global security? What about solving problems of national importance through the exploration and development of new technologies?*

If so, the Atmospheric, Earth, and Energy Division (AEED) in the Chemistry, Material, Earth and Life Sciences Directorate has several openings for postdoctoral staff members that may interest you. The postings listed below briefly describe the positions, however, please visit the AEED website at [http://www-cmels.llnl.gov/?url=about\\_cmels-atmospheric\\_earth\\_and\\_energy\\_division](http://www-cmels.llnl.gov/?url=about_cmels-atmospheric_earth_and_energy_division). The application process is to apply via LLNL's Jobs Page at <https://jobs.llnl.gov>. Your resume will then be reviewed by the hiring manager or PI hiring for the position.

***Current Postings:***

**Job #007714**

The Seismology Group within the Atmospheric, Earth, and Energy Division in the Chemistry, Materials, Earth and Life Sciences Directorate has an opening for a postdoctoral staff member to do original and independent research to support the Ground Based Nuclear Explosion Monitoring (GNEM) Program. We are seeking an individual with specialization in computational seismology, forward and inverse calculations with 3D earth models and broadband waveform analysis. Successful applicants will have access to the GNEM programs extensive seismic database and LLNL's high performance computing facilities. This position will report to the Seismology group leader and the GNEM Program leaders.

**Job #007822**

The Computational Physics Group within the Atmospheric, Earth and Energy Division (AEED) in the Chemistry, Materials, Earth and Life Sciences Directorate, has an immediate opening for a postdoctoral scientist to do original and independent research in one or more aspects of computational geophysics, geology, and basic energy sciences. The successful candidate will perform computational modeling and field studies utilizing state of the art geomechanical tools to study fault and fracture network activation in response to fluid injection into the subsurface. The successful candidate will have access to LLNL's extensive computer facilities, specialized laboratory facilities and field equipment. The postdoctoral scientist will report to the Computational Physics Group Leader within AEED.

**Job #007646**

The Atmospheric, Earth and Energy Division in the Chemistry, Materials, Earth and Life Sciences Directorate has openings for postdoctoral scientists to do original and independent research in one or more aspects of atmospheric science, including numerical modeling and parameterization of physical processes, atmospheric chemistry and aerosol processes, high performance computing, and /or field experiments. Areas of possible specialization include boundary-layer meteorology; wind resource characterization; atmospheric transport and dispersion modeling; meteorological data assimilation; numerical weather prediction at global, regional, mesoscale, and urban scales; flows in complex terrain; surface-atmosphere interaction; atmospheric chemistry and aerosol modeling; uncertainty quantification; and field experiments. Research personnel may also collaborate with a team of atmospheric and



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Requirements include:

Education and experience:

- o Recent PhD in atmospheric science, earth science, or related field.

Knowledge, skills and abilities

- o Experience working with large-scale climate models and/or large-scale climate- proxy data sets
- o Experience working with the impacts of volcanic aerosols on the climate system or volcanic signals in ice cores

o Strong quantitative skills

o Ability and keen interest in collaborative interdisciplinary research

o Experience working in a UNIX computing environment

o Proficiency in software diagnostic tools and experience in scientific computing

o Demonstrated ability to work collaboratively and independently

o Strong written and oral communication skills; strong publication record

For additional information contact: Gifford Miller [gmill@colorado.edu](mailto:gmill@colorado.edu) or  
Bette Otto-Bliesner [ottobli@ncar.ucar.edu](mailto:ottobli@ncar.ucar.edu)

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~ ~ ~ ~ ~ ~ ~ ~ **HAVE A GREAT WEEKEND!** ~ ~ ~ ~ ~ ~ ~ ~