

**GEOBULLETIN**  
**JANUARY 23, 2009**

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](mailto: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.

January 23 ----- No weeks lecture  
January 30 ----- Chunmia Zheng/University of Alabama  
February 6 ----- Jennifer Eigenbrode/NASA Goddard  
February 13 ----- David Bish/ Indiana University  
February 20 -----  
February 27 -----  
March 6 -----  
March 13 -----  
March 20 -----  
March 27 ----- Leigh Royden  
April 3 ----- Stephanie Prejean/ USGS Alaska Volcano Observatory  
April 10 ----- Joe Stoner/Oregon State University  
April 17 ----- BOV Meeting - Good Friday  
April 24 ----- Susanne Janecke  
May 1 ----- L. Charlet  
May 8 ----- Pieter Visscher/University of Conn.

Ron Harder Scholarship for students majoring in geology. The applicant criteria is fairly narrow: Students who have completed 2 years of college coursework, achieved a minimum 2.5 cum GPA, and who graduated from a high school in the Fox Valley area of WI. Please advertise this scholarship with potential applicants. Applications are due to the Community Foundation office by July 1, 2009.

**Wisconsin Ecology will be hosting the 2nd Annual Summer Job Fair for Undergraduates on February 26<sup>th</sup>, from 11-5PM in Memorial Union, and we need YOU to send a representative to the job fair.**

We encourage you to consider sending a grad student representative to this event. The event will be structured like a typical college or job fair, with tables for various lab groups advertising the research opportunities available (field, lab, summer, academic year, etc.). Many undergraduates are unaware of the research opportunities available to them, and our goal is to foster an environment that makes it easy for students to find out about available positions, talk to prospective employers, make contacts, and set up interviews.

**What you need to do now! Tell us you want a table by Friday, February 6.**

Send the name and email for you or your group to:  
Jake Griffin, Wisconsin Ecology Grad Student rep, [jgriffin2@wisc.edu](mailto:jgriffin2@wisc.edu)

**GEOBULLETIN**  
**JANUARY 23, 2009**

We need to know how many tables and chairs to reserve. So figure out the exact details later, but reserve a table now.

**POSITION OPENINGS:**

- Internship with EARTH Magazine, Geoscience Communications Opportunity at the American Geological Institute, AGI would like to bring to the attention of all geosciences students the US State Department's Laura W. Bush Traveling Fellowship in support of the UNESCO mandate.
- Candidate for the Bill Bell Chair in Petroleum Geology
- Principal Technical Officer-Department Of Geology –Rhodes University
- Associate Professional Specialist - Laboratory Manager, Isotope Biogeochemistry
- Cosmochemistry – Astrobiology Postdoctoral Fellow –Institute for Astronomy, University of Hawai'i Manoa

**POSITION OPENINGS:**

[Internship with EARTH Magazine](#)

Do you like science and love to write?

Try out science writing with an EARTH magazine internship this summer.

We are currently accepting applications for a summer 2009 internship. The intern will work as a full member of the EARTH staff. Tasks include writing news articles for EARTH online, writing and editing news and trends articles for print, helping to edit and produce the magazine, and attending press briefings and science seminars in Washington, D.C., as needed. Based at the American Geological Institute in Alexandria, Va., the internship is 12 weeks long and includes a \$3,500 stipend. Starting time is flexible. All applications should be received by March 31, 2009.

A background in the geosciences, writing and design work is a plus. Send a resume, letter describing what you hope to gain from the internship and how your previous experience makes you most suitable for this position, and writing samples (no more than three) via e-mail, fax or mail to:

Attention: EARTH Summer Internship  
American Geological Institute  
4220 King Street Alexandria, VA 22302  
Fax: (703) 379-7563  
E-mail: [earth@earthmagazine.org](mailto:earth@earthmagazine.org)

Writing samples can include essays, newspaper or magazine articles, or samples from classroom work. We want to see that you have a flair for writing and that you can describe science well.

[Geoscience Communications Opportunity at the American Geological Institute](#)

The American Geological Institute currently has an opening for a Communications Specialist to work in the Communications Department. This program is focused on building exposure of the geosciences to the general public and to facilitate communications within the geosciences community. This position will work with other AGI staff to plan and execute conferences, build new communications approaches to facilitate information exchange between geoscientists and AGI's 45 Member Societies, work on initiatives to enhance the visual and popular accessibility of geosciences information, and to help broaden exposure of AGI's activities and mission. This is a full-time position based in Alexandria, Virginia, and ideal for an individual looking to build their network in the geosciences profession. Excellent communications skills required. A bachelor's degree in the geosciences is

**GEOBULLETIN**  
**JANUARY 23, 2009**

strongly preferred. Please email cover letter and resume to: [asm@agiweb.org](mailto:asm@agiweb.org), and include the word Communications in the subject line.

AGI would like to bring to the attention of all geosciences students the US State Department's Laura W. Bush Traveling Fellowship in support of the UNESCO mandate.

This program provides funds to a student to work in a foreign country on a project that aligns with the UNESCO mandate, which includes the natural sciences. We encourage any student doing field research which connects geosciences with improving human development to consider applying for this program. More information is available at: <http://www.state.gov/p/io/unesco/c25426.htm>

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**The Bill Bell Chair in Petroleum Geology at The University of Western Ontario The Department of Earth Sciences is pleased to announce a search for a candidate for the Bill Bell Chair in Petroleum Geology. The starting date for the appointment will be July 1st, 2009, or thereafter and the appointment will be made at the rank of associate professor (probationary or tenure) or full professor (with tenure), commensurate with qualifications and experience.**

The Department of Earth Sciences at The University of Western Ontario seeks a candidate with significant experience relevant to Petroleum Geology for The Bill Bell Chair in Petroleum Geology, made possible through a donation by Mr. Bill Bell. The Chair holder will have an established record in Petroleum Geology, and a history of interaction and/or employment with the petroleum industry. Research in the Department of Earth Sciences is organized into the broad themes of Earth and Planetary Systems; Resource GeoScience; Tectonic Processes and Natural Hazards; and Earth and Climate Evolution. The successful applicant will be expected to establish and maintain a vigorous, independently funded research program in Petroleum Geology, and to collaborate with other faculty members in one or more of our broad research themes. Preference will be given to qualified applicants whose research supports the Faculty of Science Initiative to Enhance Economic and Energy Resource Geology (see [www.uwo.ca](http://www.uwo.ca)). Applicants must be prepared to supervise graduate students at the MSc and PhD levels and to teach broadly-based as well as specialized courses in Petroleum Geology and related fields, both at the undergraduate and graduate levels. The Department of Earth Sciences is a vibrant community of twenty-two full-time faculty members, nine support staff, 66 graduate students, and 10 post-doctoral fellows, research associates and instructors. The Department offers undergraduate and graduate programs in geology, geophysics, and environmental earth science, and is currently implementing a Professional Geoscience undergraduate degree program leading to registration, under guidelines published by the Canadian Council of Professional Geoscientists. The successful candidate will have access to a high calibre array of modern research facilities available within the newly renovated Biology and Geology Building, and research facilities in the Department of Physics and Astronomy and Surface Science Western, and the Nanofab Laboratory. More information about the Department is available at: [www.uwo.ca/earth/](http://www.uwo.ca/earth/) Review of applications will commence on March 1, 2009. A complete application includes a covering letter, a full curriculum vitae, the names, mail, email addresses, and phone/fax numbers of at least three referees, and a statement, not to exceed 500 words, explaining how background, experience and research accomplishments qualify you for this position, sent to: Dr. R. Gerhard Pratt, Chair, Department of Earth Sciences, [eschair@uwo.ca](mailto:eschair@uwo.ca) The University of Western Ontario, London, Ontario CANADA N6A 5B7

*Positions are subject to budget approval. Applicants should have fluent written and oral communication skills in English. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Western Ontario is committed to employment equity and welcomes applications from all qualified women and men, including visible minorities, aboriginal people and persons with disabilities.*

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Rhodes University invites applications from suitably qualified candidates for the following position, from as early a date as possible. Recognizing that diversity is important in achieving excellence, we especially encourage South African members of designated groups to apply.

**PRINCIPAL TECHNICAL OFFICER-DEPARTMENT OF GEOLOGY**

The successful candidate will be responsible for day-to-day operation of the electron microprobe facility in the Department. Candidates must meet the following minimum requirements:

- M.Sc. Degree in a relevant Science field plus 2 years relevant experience which may be obtained concurrently with studying
- OR**
- Honours Degree in a relevant Science field plus 4 years relevant experience
- OR**

**GEOBULLETIN**  
**JANUARY 23, 2009**

B.Sc. Degree or equivalent (3 years) plus 5 years relevant experience

**OR**

Matric plus 8 years relevant experience

Two years electron microprobe experience **AND/OR** analytical and/or laboratory experience **AND/OR** previous experience in designing, fabricating and repairing electronic equipment

**THE FULL MINIMUM JOB REQUIREMENTS, AGAINST WHICH PROSPECTIVE CANDIDATES WILL BE MEASURED, ARE DETAILED IN THE JOB PROFILE**

To be considered for this post, applicants must access the application requirements at <http://www.ru.ac.za/jobs> or contact 046 603 8004 for further information. The completed application, together with a curriculum vitae and the official addendum, should be received by Recruitment & Selection, Rhodes University, P O Box 94, Grahamstown, 6140, by 12 noon on Monday, 2 February '09.

**SALARY NEGOTIABLE - COMMENSURATE WITH EXPERIENCE AND EDUCATION**

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**Associate Professional Specialist - Laboratory Manager, Isotope Biogeochemistry**

The Princeton University Department of Geosciences seeks to hire a full time associate professional specialist for the isotope biogeochemistry laboratory of Professor Daniel Sigman. Responsibilities include performing isotopic analyses and developing new analytical methods, overseeing laboratory operations, assisting graduate students and postdocs, and maintaining equipment, with the opportunity for participation in field work and in the interpretation and publication of results. Master's degree in science is required, as is experience in geochemistry, analytical chemistry, microbiology, or mass spectrometry. Salary commensurate with experience. Interested individuals should send a CV, a description of their training, experience, and career goals, and the names of at least 3 references to Ms. Deborah Fahey, Department Manager, Department of Geosciences, Princeton University, 114 Guyot Hall, Princeton, NJ 08544-1003. Princeton University is an equal opportunity/affirmative action employer and complies with applicable EEO and affirmative action regulations. For information about applying to Princeton and how to self-identify please link to [http://www.princeton.edu/dof/about\\_us/dof\\_job\\_openings/](http://www.princeton.edu/dof/about_us/dof_job_openings/)

For more information about the research conducted in the Sigman laboratory, please see [http://geoweb.princeton.edu/people/faculty/sigman/current\\_research.html](http://geoweb.princeton.edu/people/faculty/sigman/current_research.html) and <http://geoweb.princeton.edu/people/faculty/sigman/pubs.html>

Questions regarding the position may be addressed to Prof. Daniel Sigman, who can be reached by email at [sigman@princeton.edu](mailto:sigman@princeton.edu)

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**Cosmochemistry – Astrobiology Postdoctoral Fellow –Institute for Astronomy, University of Hawai'i Manoa**

The Institute for Astronomy (IfA) in collaboration with the Hawai'i Institute for Geophysics and Planetology (HIGP) invites applications for two Post-doctoral Fellows with interests in cosmochemistry and isotopic studies of extra-terrestrial samples to join an exciting interdisciplinary group, the University of Hawai'i's NASA Astrobiology Institute (<http://www.ifa.hawaii.edu/UHNAI/>). The Fellowship will be available in early 2009 upon availability of funds. The Fellowship is for three years assuming satisfactory progress and continued availability of funds. Fellows will receive a stipend of approximately \$4,800 per month, a small relocation allowance and basic research costs. The UH lead team maintains an innovative and multi-disciplinary research environment linking astronomical, biological microbiological, chemical and geological sciences to investigate the origin, history and distribution of water and its relation to life in the Universe. The program centers around interactions with an interdisciplinary group of postdoctoral fellows. We are seeking individuals to participate in one or more of the following areas: 1) Origin of the Earth's water: this project involves measuring D/H ratios in samples from the Hawaiian and Icelandic hot spots by ion microprobe; 2) Experimental studies of hydrogen concentrations in nominally anhydrous minerals; 3) Studies of the timing of aqueous alteration in primitive chondritic meteorites using <sup>26</sup>Al, <sup>53</sup>Mn, and <sup>60</sup>Fe radiochronometers; and 4) Using oxygen isotopes to understand the processes involved in aqueous activity on meteorite parent bodies. Minimum qualifications include a Ph.D. in geology, isotope geochemistry, physics, or chemistry, a record of research in the field of expertise as demonstrated by publications, previous experience with microanalysis or mass spectrometry of natural samples. Experience with extraterrestrial samples microbeam techniques such as scanning electron microscopy, electron

**GEOBULLETIN**  
**JANUARY 23, 2009**

microprobe microanalysis, and/or secondary ion mass spectrometry (SIMS) is desirable. Education and public outreach is an integral part of the Astrobiology program and experience with or interest in E/PO will be considered positively in an application. Further details about the cosmochemistry research projects being carried out within the UH Astrobiology effort can be obtained from Dr. Gary R. Huss ([ghuss@higp.hawaii.edu](mailto:ghuss@higp.hawaii.edu)) or Dr. Alexander Krot ([sasha@higp.hawaii.edu](mailto:sasha@higp.hawaii.edu)).

Questions about the UH Astrobiology lead team's program may be directed to Dr. K. J. Meech ([meech@ifa.hawaii.edu](mailto:meech@ifa.hawaii.edu)).

To Apply, please submit the following:

- Contact information - name, email, phone(s), fax, address.
- Current position and location
- Date of Ph.D and where and what field
- Date available if selected for Fellowship.
- If non-US citizen, visa status (note: funding only allows support for fellows on coming in on J1-visas)
- Current CV and Bibliography
- Letters of recommendation – Please arrange to have 3 letters of recommendation sent separately.

Application information can be sent (preferably by email) to:

Via snail mail to: Karen Ehrhorn, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822.

Via email to: [ehrhorn@ifa.hawaii.edu](mailto:ehrhorn@ifa.hawaii.edu)

Via fax to: NAI Postdoc application, Fax no. (808) 956-4644

Applications will be reviewed beginning February 1, 2009 and will remain open until the Fellowship is filled. The University of Hawai'i is an EEO/AA employer and encourages applications from women and minorities.

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