

*GEOBULLETIN*  
*AUGUST 29, 2008*

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*The GeoBadger Alumni Reunion*

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

September 25-27, 2008  
Weeks Halls, 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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Welcome to all, new and old. May the year bring you personal growth and happiness as a member of the Weeks Hall family.

This is the Second Geobulletin of the 2008-2009 school year. It 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.

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**Welcome from the Chair**  
**Cliff Thurber**

It is my pleasure to welcome you to the start of the fall semester. I have a great deal to learn as I begin my 3-year term as department chair, so my thanks in advance to all of you for your patience as I learn the ropes.

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A special welcome goes to the 15 new graduate students joining our department this fall:

- Erin Fenlon
- Phillip Gopon
- Andrew Honma
- Jason Huberty
- Scott Johnson
- David Lovelace
- Anosua Mukhopadhyay
- Rachel Murphy
- Summer Ohlendorf
- Elizabeth Percak-Dennett
- Anthony Pollington
- John Schneider
- Erin Stoesz
- David Ullman
- Kelsey Winsor

There will be chances to meet and greet the new graduate students on Friday, August 29 in the Library around 2:45 PM, during the break between the new student orientation and TA training, as well as at the first of our regular “Weeks End” seminars starting around 5 PM that day (on the 4th floor balcony if the weather cooperates, otherwise in the Cline Lounge on the 2nd floor).

Other new members of the Weeks Hall community who joined us over the summer or are arriving in the fall include post-docs Ellen Syracuse and Noel Heim, and a number of visiting faculty: Tom Blenkinsop, Jim Evans, Suzanne Janecke, and Steve Wojtal; and also visiting scholars: Alan Matthews, Miryam Bar-Matthews, Yubing Sun, and Mei Zhang. Welcome to all, and my apologies if there is someone I have overlooked.

For those of you who are new to the department, please take the time to introduce yourselves to our excellent office and technical staff. These are the people who work hard both in visible places, like the main reception office, as well as behind the scenes, to keep our research and educational programs running smoothly.

Below is a list of staff, indicating their responsibilities and their contact information if you need their help.

**Office Staff:**

- Jane Fox-Anderson (Student Records), Rm. 213, [jefoxand@geology.wisc.edu](mailto:jefoxand@geology.wisc.edu)
- Shirley Baxa (Payroll & Benefits), Rm. 221, [sbaxa@geology.wisc.edu](mailto:sbaxa@geology.wisc.edu)
- Christine Damon (Secretarial, Travel), Rm. 236, [chrisk@geology.wisc.edu](mailto:chrisk@geology.wisc.edu)
- Judy Gosse (Accounting), Rm. 217, [judy@geology.wisc.edu](mailto:judy@geology.wisc.edu)
- Jansi Prabakaran (Office Reception, Information), Rm. 236, [jprabak@geology.wisc.edu](mailto:jprabak@geology.wisc.edu)
- Michelle Szabo (Department Administrator), Rm. 225A, [michelle@geology.wisc.edu](mailto:michelle@geology.wisc.edu)

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**Technical Staff:**

Ben Abernathy (Computer), Rm. 147, [ben@geology.wisc.edu](mailto:ben@geology.wisc.edu)  
Brian Beard (Radiogenic Isotope Lab), Rm. 309, [beardb@geology.wisc.edu](mailto:beardb@geology.wisc.edu)  
Mary Diman, (Graphic Artist), Rm. 239, [diman@geology.wisc.edu](mailto:diman@geology.wisc.edu)  
John Fournelle (Electron Microprobe), Rm. 306A, [johnf@geology.wisc.edu](mailto:johnf@geology.wisc.edu)  
Brian Hess (Thin Section Lab), Rm. 206, [hess@geology.wisc.edu](mailto:hess@geology.wisc.edu)  
Brian Jicha (Rare Gas Geochronology Lab) Rm. 335, [bjicha@geology.wisc.edu](mailto:bjicha@geology.wisc.edu)  
Jim Kern (Ion Microprobe Lab) Rm. 130-134 [jkern@geology.wisc.edu](mailto:jkern@geology.wisc.edu)  
Noriko Kita (Ion Microprobe Lab) Rm. 145, [noriko@geology.wisc.edu](mailto:noriko@geology.wisc.edu)  
Patrick Kuhl (Computer), Rm. 156, [pkuhl@geology.wisc.edu](mailto:pkuhl@geology.wisc.edu)  
Neal Lord (Electronics), Rm. 146, [lord@geology.wisc.edu](mailto:lord@geology.wisc.edu)  
Lee Powell (Electronics), Rm. 146, [leep@geology.wisc.edu](mailto:leep@geology.wisc.edu)  
Lee Putman (Machine Shop), Rm. B148, [put@geology.wisc.edu](mailto:put@geology.wisc.edu)  
Mike Spicuzza (Stable Isotope Lab), Rm. 337, [spicuzza@geology.wisc.edu](mailto:spicuzza@geology.wisc.edu)

**Librarians:**

Marie Dvorzak, Rm. 440, [mdvorzak@geology.wisc.edu](mailto:mdvorzak@geology.wisc.edu)  
Toby Lathrop, Rm. 440, [alathrop@library.wisc.edu](mailto:alathrop@library.wisc.edu)

**Building Manager:**

Michelle Szabo – Primary Building Manager, Rm. 225A, [michelle@geology.wisc.edu](mailto:michelle@geology.wisc.edu)  
Brian Hess – Back up Building Manager, Rm. 206, [hess@geology.wisc.edu](mailto:hess@geology.wisc.edu)

**ORIENTATION FOR NEW GRAD STUDENTS** is Friday, August 29, 2008 --- 1:00-3:00 PM in Room A259. An orientation program for new TA's will follow. All new graduate students are expected to attend. New TA's are required to attend this session and the TA orientation session that follows (from 3-5 PM). Continuing grad students, faculty and staff are invited to the orientation and to join the students for refreshments in the Library around 2:45 PM during the break between new student orientation and TA training and/or come to Weeks End Seminar.

**REMINDER** --- The department offices on the 2nd floor will be closed on Monday, September 1st in observance of Labor Day. They will reopen Tuesday at 7:30 AM.

**FACULTY MEETINGS** --- The first faculty meeting of the year will be held Wednesday, September 3, 2008 at 3:30 pm. The remainder of the meetings for the first semester will be at the same time, same room and are scheduled as follows: September 24 (special meeting on the undergraduate curriculum), October 15, November 12 and December 10. There may be an additional special meeting on September 17. Council meetings will normally be held on the Wednesday one or in some cases two weeks prior to the faculty meeting.

**GEOCLUB OFFICERS FOR THIS YEAR ARE AS FOLLOWS:**

<b>PRESIDENT</b> ----- Amalia Doebbert	<b>VICE PRESIDENT</b> ----- Alex Teel
<b>SECRETARY(T-shirt Czar)</b> ----- Meg Dickoff	<b>TREASURER</b> ----- Melodie French
<b>ELUCIDATOR</b> ----- Eric Williams	<b>FIELD TRIP</b> ----- Andy Leaf
<b>MONITORS</b> ----- Andy Fraass (fall), Chole Bonamici, Eva Szilvagy	

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**WEB CZAR** ----- Joe Kington  
**SODA CZAR** ----- Brett Carr (fall), Andy Fraass (spring)

**AAPG:**

**PRESIDENT** ----- Andrew Trzaskus                      **VICE PRESIDENT** ----- Eric Williams  
**SECRETARY** ----- JoAnn Gage

**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 05** -----

**September 12** ----- Patrick McLaughlin – WI State 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** ----- David Blake --- NASA

**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** -----

**POSITION OPENINGS:**

- The State of Wisconsin Department of Agriculture, Trade & Consumer Protection is currently recruiting for a Hydrogeologist - Advanced.
- Two openings in the Tsunami Warning Center, GS-11-12-13 full time permanent jobs. Phys Scientist, Geophysicist, Oceanographer
- Geophysical Institute, Seismology - **JOB TITLE: Research Technician-Data Specialist.** This job is crucial to the functioning of the Alaska Earthquake Information Center.
- Geophysical institute - University of Alaska Fairbanks, Geophysical Institute, Seismology, **JOB TITLE: Research Professional 3.** Looking to hire a seismologist who will complement our existing strengths in seismology,

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with expertise in one or more of the following fields: seismotectonics, earthquake source mechanics, or wave propagation and earth structure, with components of observational seismology in his/her area of interest.

- **The Department of Geological Sciences at the University of Minnesota Duluth** invites applications for a one-year, 2008-2009, sabbatical replacement in the area of *Structural Geology and Tectonics*.
- **The Commissariat for the Energy of the Atom (French Nuclear Agency)** is seeking a motivated candidate for a one-year funded, one-year renewable postdoctoral research position.
- **The Department of Geology at University of Wisconsin Oshkosh** - part-time lecturer to teach Geochemistry (369) in Fall Semester, 2008
- **Deister Concentrator, LLC** - Mining Separation & Classification Equipment Sales Representative
- **Houston Energy Fellow and Flagship Graduate Research Assistantship in Isotope Biogeochemistry and Geomicrobiology**, Department of Geology & Geophysics, Louisiana State University, Baton Rouge, LA, USA.
- **The Climate and Environmental Physics department at University of Bern** announces the availability of a full-time position for a lab technician or equal qualifications. The position is funded for three years with hope for prolongation.
- **The University of Michigan's Departments of Geological Sciences (GS) and Atmospheric Oceanic and Space Sciences (AOSS)** announce five tenure-track positions in the field of **Global Change: Cryosphere and Sea-Level Impacts**.
- **The Department of Geology, Geography and Environmental Studies at Stellenbosch University** is pleased to announce the availability of a position as Lecturer in Geosciences.

**POSITION OPENINGS:**

The State of Wisconsin Department of Agriculture, Trade & Consumer Protection is currently recruiting for a Hydrogeologist - Advanced. Additional details on the position and how to apply can be found at the link below. Please forward this information on as you feel appropriate.

[http://wisc.jobs/public/job\\_view.asp?annoid=33567&jobid=33082](http://wisc.jobs/public/job_view.asp?annoid=33567&jobid=33082)

Leah Herzberg, Human Resources Specialist  
Department of Agriculture, Trade & Consumer Protection

P: 608-224-4762  
F: 608-224-4757

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There are two openings in the Tsunami Warning Center, GS-11-12-13 full time permanent jobs. Phys Scientist, Geophysicist, Oceanographer, GS-11/12/13;de

SALARY RANGE: 48,148.00 - 89,217.00 USD per year OPEN PERIOD: Wednesday, August 20, 2008 to Wednesday, September 10, 2008

SERIES & GRADE: GS-1301,1313,1360-11/13 POSITION INFORMATION: Competitive Service - Career or Career-Conditional Full-time Permanent

PROMOTION POTENTIAL: 13 DUTY LOCATIONS: 2 vacancies - Palmer, AK

WHO MAY BE CONSIDERED:

All qualified U.S. citizens.

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**JOB SUMMARY:**

The NWS, the world's preeminent weather and atmospheric sciences organization, offers you an opportunity to help protect American lives and property. Since 1870, NWS has served the public by providing forecasts and hazardous weather warnings while studying the most dynamic forces of nature. Contribute your talents to this tradition. NWS...Working together to save lives.

This position is with NOAA's West Coast Alaska Tsunami Warning Center, located in Palmer, Alaska. The main responsibility of the warning center is to provide tsunami warnings, watches, advisories, and information messages to residents and emergency managers in their serviced area.

The position requires a rotating shift schedule so that the center is staffed 24 hours a day.

There is one position which may be filled from one of the following designated occupational series: 1)Physical Scientist, GS-1301; 2)Geophysicist, GS-1313; or 3)Oceanographer, GS-1360. The position may be filled at the GS-11, GS-12 or GS-13 grade level, depending on the applicant's qualifications.

This position is also being announced under NWS-AR-2008-0128 which is open to status applicants nationwide (Current Federal status employees serving under a career or career conditional appointment in the competitive service, former Federal employees who served under a career or career conditional appointment & have reinstatement eligibility; CTAP/ICTAP eligibles, Veterans who are preference eligibles or who have been separated from the armed forces under honorable conditions after 3 or more years of continuous service, 30% disabled veterans, handicapped and other applicants eligible for noncompetitive appointment under special appointing authorities). If you wish to be considered under that vacancy announcement you will need to apply under that announcement number.

Following are the salary ranges for each grade level:

- GS-11: \$48,148.00 - \$62,593.00
- GS-12: \$57,709.00 - \$75,025.00
- GS-13: \$68,625.00 - \$89,217.00

**KEY REQUIREMENTS:**

- \* Relocation expenses are authorized.
- \* CTAP/ICTAP applicants must score a minimum of 85 to be well qualified

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LOCATION: Geophysical Institute, Seismology  
JOB TITLE: Research Technician-Data Specialist  
POSTING NO: 0055485  
QUICKLINK: [www.uakjobs.com/applicants/Central?quickFind=63336](http://www.uakjobs.com/applicants/Central?quickFind=63336)  
GRADE: 76 - 78 Depending On Experience

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EMPLOYMENT STATUS: Full-time, Non-Exempt

This job is crucial to the functioning of the Alaska Earthquake Information Center, in so far as the daily earthquakes occurring in Alaska must be recorded, analyzed and catalogued accurately and reliably. Without a qualified, competent analysis staff the observatory and the researchers who rely on its data cannot operate. This position will have a strong emphasis on field work throughout Alaska for installing and maintaining seismic instrumentation.

Typical Duties

Process seismic data - pick arrivals of seismic waves and take amplitude frequency measurements. Run earthquake location program and evaluate accuracy and stability of calculated solution.

- \* Participate in fieldwork at seismic stations.
- \* Obtain data from non-routine sources in order to enhance data quality and completeness, and integrate it into the archives.
- \* Document Data errors, circuit, channel telemetry problems as they appear in the data - notify supervisor or engineers.
- \* Manage file space in order to maintain functioning of automatic acquisition software - more data when necessary or alert supervisor when archiving is necessary.
- \* Be able to respond to earthquake or volcano alarms and take the appropriate action if necessary.
- \* Prepare weekly seismicity report, present at weekly data meeting.
- \* Help provide tours of the seismology lab to visiting groups.
- \* Field telephone calls to the seismology lab and to the appropriate individual, answer questions regarding earthquakes and tsunamis.
- \* In a volcano crisis, be able to assist in keeping analysis of volcanic data up-to-date so better decisions regarding eruption likelihood can be made.

Minimum Qualifications

- \* Bachelor's degree in earth or physical science needed, as the basic understanding of physics, mechanics and mathematical results of location algorithm requires this minimum education/or equivalent experience.
- \* Understand mechanics of wave propagation, earth structure, and multiple arrivals.
- \* Understand normal patterns of seismicity, earthquake, and tsunami behavior in Alaska.
- \* Mathematical skills adequate to interpret errors and results in analysis calculations.
- \* Familiarity with UNIX operating system, SUN workstations, tape drives, disk drives, Internet connections.
- \* Strong communication skills both verbal and written.
- \*\*The successful candidate of this position will be placed at a level appropriate for their education and experience. This position is part of a career development plan and that will provide an avenue for increasing the position's scope, complexity, and degree of independence as the incumbent's experience and skills increase.

For a complete job description and applicant instructions, please apply online at [www.uakjobs.com](http://www.uakjobs.com). If you have any questions, please contact Lisa Yancey, HR Consultant, Geophysical Institute, University of Alaska Fairbanks, (907) 474-7791 or e-mail: [lisa.yancey@gi.alaska.edu](mailto:lisa.yancey@gi.alaska.edu). The University of Alaska Fairbanks is an Equal Opportunity/Affirmative Action Employer.

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GEOPHYSICAL INSTITUTE - UNIVERSITY OF ALASKA FAIRBANKS

LOCATION: Geophysical Institute, Seismology

JOB TITLE: Research Professional 3

POSTING NO:

0054343

QUICKLINK: [www.uakjobs.com/applicants/Central?quickFind=61054](http://www.uakjobs.com/applicants/Central?quickFind=61054)

GRADE: 80 - 82 DOE

EMPLOYMENT STATUS: Full-time, Exempt

CLOSING DATE:

Open Until Filled

Applications are invited for a Staff Research position in seismology at the University of Alaska Fairbanks. We are looking to hire a seismologist who will complement our existing strengths in seismology, with expertise in one or more of the following fields: seismotectonics, earthquake source mechanics, or wave propagation and earth structure, with components of observational seismology in his/her area of interest. The successful candidate must be capable of participating in the near-real-time operation of the AEIC activities, and collaborative research efforts focussing on Alaska's tectonics, seismicity, structure, and related topics.

Typical Duties

-Organize and maintain data-flow, files and algorithms for ShakeMap operations within AEIC real-time data processing system.

-Contribute to maintenance of the real-time data processing system, including trouble shooting data flow problems.

-Code development on Sun/Solaris computer systems for real-time and off-line earthquake data processing.

-Coordinate with other staff seismologists daily lab operations pertaining to processing, analysis, and archiving of earthquake data.

-Contributions required for the development, organization, and regular publication of Alaska earthquake reports and catalogs. This includes quality control, finalizing and archiving of current data.

-Strong understanding of digital seismograph systems as necessary for proposing and integrating new seismic stations into the existing systems.

-Conduct research on selected seismological topics, both descriptive and analytical. Publish papers and articles on this research in scientific periodicals and refereed journals. It will include both independent and cooperative studies focusing on Alaska's tectonics, seismicity, structure, and related topics.

-Responsible for immediate action in the event of a seismic crisis, coordinating 24 hour seismic monitoring with fast, accurate analysis of data so that hazard assessment and decisions regarding public safety may be made by emergency agencies.

-Interact with the public, news media, and/or public safety agencies as a spokesperson for the Geophysical Institute seismology lab as requested by the State Seismologist. This will include writing and distributing

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information releases as needed, radio and TV interviews regarding ongoing, recent, or past seismic and volcanic behavior.

**Minimum Qualifications**

- Requires at least a Masters Degree in Geophysics/Seismology with extensive experience (Ph.D. preferred) or equivalent.
- Must possess a strong seismological background as well as strong seismology training, both theoretical and observational.
- Relational database management experience preferably with Datascope.
- Experience operating and developing near-real-time seismic data processing systems using the Antelope Environmental Monitoring system.
- Experience with moment tensor inversion techniques, and seismic array processing techniques is highly desirable.
- Experience in regional earthquake seismology preferably in Alaska.
- Must be familiar with SOLARIS/UNIX operating systems on Sun computers and multi-threaded programming and languages including C, Fortran, Perl, Tel/Tk, and Java.
- Strong written and oral communication skills.
- Ability to think calmly and clearly in a crisis situation.
- Physically capable of performing fieldwork studies at remote locations, to include; walking, lifting, and outdoor survival in possibly unfavorable conditions.

\*\*The successful candidate of this position will be placed at a level appropriate for their education and experience. This position is part of a career development plan and that will provide an avenue for increasing the position's scope, complexity, and degree of independence as the incumbent's experience and skills increase.

For a complete job description and applicant instructions, please apply online at [www.uakjobs.com](http://www.uakjobs.com). If you have any questions, please contact Lisa Yancey, HR Consultant, Geophysical Institute, University of Alaska Fairbanks, (907) 474-7791 or e-mail: [lisa.yancey@gi.alaska.edu](mailto:lisa.yancey@gi.alaska.edu). The University of Alaska Fairbanks is an Equal Opportunity/Affirmative Action Employer.

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**The Department of Geological Sciences at the University of Minnesota Duluth** invites applications for a one-year, 2008-2009, sabbatical replacement in the area of *Structural Geology and Tectonics*. This short notice is a consequence of a move to administration by one of our faculty. Start date is Sept. 2, 2008 (or earlier). Master's degree or advanced standing in a Ph.D. program in geology, geological sciences, geophysics, or closely related field is required. Ph.D. is preferred. We seek applicants with an excellent understanding of fundamental physical principles and processes and a demonstrated ability to apply that understanding in a quantitative manner to important problems in Earth Sciences. Salary will be competitive and the position includes benefits.

Duties/Responsibilities: the successful applicant will be required to teach an introductory course in Earth's Resources (GEOL 2350) during fall semester and Structural Geology (GEOL 4450, senior level) and an upper division/grad level course in Tectonics (GEOL 4480). The successful candidate will also have the opportunity to supervise undergraduate research or to help with advising graduate research if desired.

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UMD is a medium-size comprehensive public university in a splendid natural setting on the north shore of Lake Superior. The program in Geological Sciences offers undergraduate and graduate degrees in a wide range of earth science disciplines.

Interested candidates should attach a cover letter, curriculum vitae, three references (including name, address, phone, and email address), transcripts, along with a brief written statement of teaching and research interests. Please send the information to Howard Mooers, Head, Geological Sciences, 230 Heller Hall, 1114 Kirby Dr. Duluth, MN 55812. email: [hmooers@d.umn.edu](mailto:hmooers@d.umn.edu).

The selection committee will begin its review of complete applications as they come in. The position will remain open until filled.

The University of Minnesota is an equal opportunity educator and employer.

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**The Commissariat for the Energy of the Atom (French Nuclear Agency)** is seeking a motivated candidate for a one-year funded, one-year renewable postdoctoral research position. The goal of the post-doctoral study is to provide a thorough knowledge of the fundamental structure and molecular-scale reactivity of uraninite (UO<sub>2</sub>) surfaces contacted with aqueous solutions. This knowledge is desirable to build robust models of long-term behavior for spent nuclear fuel in nuclear waste repositories.

The first aim of the post-doctoral assistant will be to investigate the atomic-scale structure, surface relaxation and reconstruction of selected uraninite surfaces (e.g., <001>) in contact with water, by using high-resolution X-ray reflectivity. Next, the kinetics and mechanism of surface dissolution and transformation will be probed by in situ coupled flow-through dissolution and reflectivity studies. These results will be combined to place constraints on the dissolution mechanism, and thus derive a molecularly sound model of uraninite dissolution. The position will be located in the research center of Saclay (about 20 km or 13 mi southwest of downtown Paris). X-ray reflectivity experiments will be carried out at the ESRF, Grenoble.

The applicant should hold a PhD degree for less than two years. An experience in surface characterization techniques using X-ray is desirable. The position is open to both French and foreign candidates.

Please send your application, including a resume, list of publications and communications, and list of references to Dr Michel Schlegel [michel.schlegel@cea.fr](mailto:michel.schlegel@cea.fr).

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**The Department of Geology at University of Wisconsin Oshkosh** is looking for a part-time lecturer to teach Geochemistry (369) in Fall Semester, 2008. This is a three-credit course without a laboratory. Applicants must possess a master's degree in the appropriate discipline. Ph.D. or equivalent preferred. Send letter of interest and resume to: Chair, Department of Geology, University of Wisconsin Oshkosh, 800 Algoma Blvd., Oshkosh, WI 54901. Have three letters of reference and transcripts sent to the same

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address. Screening will begin August 12, 2008 and continue until the position is filled.

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**Deister Concentrator, LLC**

**Job Description**

**Job Title:** Mining Separation & Classification Equipment Sales Representative

**Department:** Sales

**Reports To:** The Sherman Group

**FLSA Status:** Exempt

**Prepared By:** John Rivera

**Prepared Date:** 7/1/08

**Summary** Sells separation and classifying equipment such as cyclones, sieve bends, and shaker tables by performing the following duties.

**Qualifications** To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

**Education and/or Experience**

Bachelor's degree (B. A.) from four-year college or university; or one to two years related experience and/or training; or equivalent combination of education and experience.

**Mathematical Skills**

Ability to comprehend and apply principles of advanced calculus, modern algebra, and advanced statistical theory. Ability to work with concepts such as limits, rings, quadratic and differential equations, and proofs of theorems.

**Computer Skills**

To perform this job successfully, an individual should have knowledge of Contact Management systems; Spreadsheet software and Word Processing software.

**Certificates, Licenses, Registrations**

Current valid driver's license

**Other Qualifications**

Must be able to travel up to 50% of the time.

**Physical Demands** The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

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While performing the duties of this Job, the employee is regularly required to talk or hear. The employee is frequently required to stand; walk and sit.

**Work Environment** The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this Job, the employee is occasionally exposed to moving mechanical parts and outside weather conditions. The noise level in the work environment is usually moderate.

**Competencies**

To perform the job successfully, an individual should demonstrate the following competencies :Customer Service - Manages difficult or emotional customer situations; Responds promptly to customer needs; Solicits customer feedback to improve service ; Responds to requests for service and assistance; Meets commitments. Interpersonal Skills - Focuses on solving conflict, not blaming; Maintains confidentiality; Listens to others without interrupting; Keeps emotions under control; Remains open to others' ideas and tries new things.

**Reasoning Ability**

Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables.

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**Houston Energy Fellow and Flagship Graduate Research Assistantship in Isotope Biogeochemistry and Geomicrobiology**, Department of Geology & Geophysics, Louisiana State University, Baton Rouge, LA, USA.

A four-year PhD assistantship is available in the Department of Geology and Geophysics, Louisiana State University. The research project will utilize multiple stable isotopes to study denitrifying and sulfate-reducing microorganisms to understand modern and ancient metabolic processes. The applicant should have a strong academic background in geology, aqueous geochemistry, and/or microbiology. Excellent oral/written communication skills and teamwork spirit are essential.

The assistantship includes a stipend of \$25,000, summer support, and \$3000 for additional research expenses. Funding is in place to begin work as early as January 2009. Please contact Dr. Annette Engel ([aengel@lsu.edu](mailto:aengel@lsu.edu)) or Dr. Huiming Bao ([bao@lsu.edu](mailto:bao@lsu.edu)) for more information. Visit <http://www.geol.lsu.edu/> for details about our department.

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**Position announcement:**  
**Physics Institute University of Bern (Climate and Environmental Physics)**

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**Lab Technician**

Position: The Climate and Environmental Physics department at University of Bern announces the availability of a full-time position for a lab technician or equal qualifications. The position is funded for three years with hope for prolongation.

Background information: The ice core group at the Climate and Environmental Physics department is one of the leading labs analyzing greenhouse gas concentrations from deep ice cores drilled in Antarctica and Greenland. Within the EPICA project, two deep ice cores were drilled on the East Antarctic Plateau providing a large suite of climatic records over the last 800.000 years. While the concentration measurements of the greenhouse gases CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O are well established, the analysis of their stable isotope signature is more challenging and extraction methods are in the phase of development or being optimized. For this purpose a new stable isotope laboratory is currently built up. At present, it consists of one Thermo Finnigan MAT 253 coupled to a periphery for d13C on CO<sub>2</sub> extracted from ice cores. Two GVI-Elementar Isoprimes arriving soon will be dedicated for dD and d13C on CH<sub>4</sub>.

Responsibilities and duties: Key duties of the position comprise the assembly of a melt extraction line for CH<sub>4</sub> d13C analysis, followed by routine measurements of ice core samples after the system was successfully set-up and thoroughly tested. Besides this, the duties include sample preparation, like cutting of ice cores as well as maintenance of the devices.

Desired skills: Hands-on experience with gas chromatography and IRMS mass spectrometers and continuous flow peripherals, including development of new techniques. Preference will be given to candidates with additional skills and experience in electronics, instrument design and development or computer programming for real-time instrument control.

Application closing: Review of applications will begin September 1st and will continue until the position is filled. The position begins at October 15th.

To Apply:

Climate and Environmental Physics  
Physics Institute, University of Bern  
Prof. Hubertus Fischer  
Sidlerstrasse 5  
CH-3012 Bern

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**The University of Michigan's Departments of Geological Sciences (GS) and Atmospheric Oceanic and Space Sciences (AOSS) announce five tenure-track positions in the field of Global Change: Cryosphere and Sea-Level Impacts.**

Pending final approval, the objective of this cluster hire is to advance cross-disciplinary research in Global Change research as part of the University of Michigan's interdisciplinary junior faculty initiative.

*GEOBULLETIN*  
*AUGUST 29, 2008*

Candidates are sought in the fields of (1) Glaciology, (2) Climate and Ice Sheet Modeling, (3) Coastal Processes, (4) Physical Oceanography, and (5) Regional Climate Modeling.

Candidates will be appointed at the Assistant Professor level with a university year appointment in either GS or AOSS, but will be expected to interact with the cluster cohorts in both departments, as well as existing faculty.

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**The Department of Geology, Geography and Environmental Studies at Stellenbosch University is pleased to announce the availability of a position as Lecturer in Geosciences.**

The historical town of Stellenbosch is sited in the beautiful wine-growing country of the Western Cape of South Africa, amid the mountains of the Cape Fold Belt. The Geology Section of the Department hosts the Centre for Crustal Petrology - a strong research group in igneous and metamorphic petrology, geochemistry and petrogenesis, structural geology and tectonics. We also have growing research strength in the area of Environmental Geochemistry and Earth Systems, as well as activity in Ore Petrology and Petrogenesis, Sedimentology and Gemmology. The bulk of our teaching is in the English Language.

The post (soon to be advertised in Earth Works) will be filled by an energetic person, with expertise in the geological sciences, and committed to quality undergraduate teaching, postgraduate supervision and innovative research. The area of specialisation is left open, but will be complementary to existing strengths in the Department, and there may be a preference for someone with expertise in the general area of mineralogy or environmental mineralogy. A PhD is required, and recent doctoral graduates are particularly encouraged to apply.

The attached document gives some more details. Please contact Prof. John D. Clemens (Executive Head) for further information, or to informally discuss the post.

tel: +27 (0)21 808 3159  
e-mail: [jclemens@sun.ac.za](mailto:jclemens@sun.ac.za)

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