

# ***GEOBULLETIN***

## ***AUGUST 15, 2008***

**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** ----- Steve Holland --- University of Georgia  
**September 19** ----- Henry Pollack --- University of Michigan  
**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** -----  
**December 19** -----

### **POSITION OPENINGS:**

- **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 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,

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800 Algoma Blvd., Oshkosh, WI 54901. Have three letters of reference and transcripts sent to the same 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

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accommodations may be made to enable individuals with disabilities to perform the essential functions.

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) 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. 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 Applied and Environmental Geology Group at Leicester is expanding with TWO new positions available (a Chair and a Lectureship).

For details see refs P3812 and A3814 at:  
<http://www.le.ac.uk/personnel/jobs/a&r.html>

Closing date: 25th August.

These are great opportunities to join a research-led Geology Department that is a leader in student-satisfaction and where exciting new teaching developments are taking place in collaboration with De Beers.

Dr Gawen RT Jenkin & Kip Jeffrey (kip1@le.ac.uk)

Leicester Geology Department - Top Ranking for Student Satisfaction.  
Highest % of Student Satisfaction amongst departments teaching full-time  
Geology degrees (2007 National Student Survey [www.unistats.com](http://www.unistats.com)).

Geology Department Student Recruitment and Schools Liaison Tutor  
<http://www2.le.ac.uk/departments/geology>

Secretary/Treasurer Mineral Deposits Studies Group [mdsg.org.uk](http://mdsg.org.uk)  
Geo-metamorphism Listowner [www.jiscmail.ac.uk/lists/geo-metamorphism.html](http://www.jiscmail.ac.uk/lists/geo-metamorphism.html)

Lecturer in Applied Geology    direct dial: +44 (0116) 252 3934  
Department of Geology        general office: +44 (0116) 252 3933  
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LE1 7RH, UK

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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)

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