

GEOBULLETIN

MAY 9, 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.

SPRING 2008 WEEKS LECTURE SCHEDULE

May 9 ----- Sean C. Solomon ----- DTM/Carnegie Institution of Washington -----
May 15 ---- Brian Tucker

FALL 2008 WEEKS LECTURE SCHEDULE

September 12 ----- Steve Holland --- University of Georgia
September 19 ----- Henry Pollach --- University of Michigan
September 26 ----- Reserve for Alumni event and BOV
October 3 ----- David Blake --- NASA
October 10 ----- Prof. Glenn Spinelli --- New Mexico Tech
October 17 -----
October 24 -----
October 31 ----- Rick Lane – VPI
November 7 -----
November 14 ----- Steve Wojtal – Oberlin College
November 21 -----
November 28 ----- Thanksgiving Recess
December 5 -----
December 12 -----
December 19 -----

POSITION OPENINGS:

- **The Department of Earth Science at Northeastern Illinois University** - seeks a full-time instructor in Earth Science Instructor
- **The Sandia Ground-Based Monitoring R&E Department**, New Mexico – SA - Seismologist/Geophysicist
- **Iowa State University** -Lecturer Position - Department of Geological and Atmospheric Sciences
- **Ball State University, Muncie, Indiana** - Department of Geology -Contract Faculty Position/Hydrogeology
- **Woods Hole Oceanographic Institution, Woods Hole, MA** – Research Assistant running the X-Ray Fluorescence core scanner
- **Bowling Green State University - Department of Geology** (Instructor in Geology)
- **University of Wisconsin Eau-Claire - Department of Geology (Instructional Academic Staff position)**
- **Shaw Environmental, Inc.** is one of the largest providers of environmental and infrastructure services in the world. – Entry-Level Geologist, Hydrogeologist or Engineer
- **Lamont-Doherty Earth Observatory of Columbia University** - Paleoclimatology/Paleoceanography Research Scientist Positions

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Weeks Lecture for this week:

DR. SEAN C. SOLOMON

DIRECTOR, DEPARTMENT OF TERRESTRIAL MAGNETISM
CARNEGIE INSTITUTION OF WASHINGTON
WASHINGTON, DC 20015, USA

GENERAL TALK

May 9, 2008 – Friday, 3:30 PM, Room AB20

“Exploring Mercury by spacecraft: Seeking clues to the formation and evolution of the inner planets”

The MErcury Surface, Space ENvironment, GEochemistry, and Ranging (MESSENGER) spacecraft, developed under NASA’s Discovery Program, will be the first probe to orbit the planet Mercury in March 2011. Launched in August 2004, MESSENGER successfully completed the first of three flybys of Mercury in January 2008. The Mercury Dual Imaging System acquired an 11-color mosaic of part of the hemisphere not seen by Mariner 10, including the entire Caloris basin; several large monochrome mosaics at a range of resolutions; a series of color frames designed for photometric analysis; and inbound and outbound movies. The Mercury Atmospheric and Surface Composition Spectrometer obtained the first high-resolution spectral reflectance measurements (at ultraviolet to near-infrared wavelengths) of surface composition, conducted limb scans of exospheric species, and mapped the structure of the neutral sodium tail. The Magnetometer measured Mercury’s internal field at low latitudes and documented the major plasma boundaries of Mercury’s magnetosphere. The Energetic Particle and Plasma Spectrometer made the first measurements of low-energy ions in Mercury’s magnetosphere. The Mercury Laser Altimeter carried out the first space altimetric profile of the planet. Other instruments in the payload provided baseline measurements that will aid in the interpretation of data from the mission orbital phase. Together, the MESSENGER flyby observations have begun to advance our understanding of the innermost planet and, more generally, of the family of inner planets.

POSITION OPENINGS:

Earth Science Instructor

**THE DEPARTMENT OF EARTH SCIENCE AT NORTHEASTERN ILLINOIS UNIVERSITY
SEEKS A FULL-TIME INSTRUCTOR IN EARTH SCIENCE** for the 2008-2009 academic year.

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Teaching responsibilities include *Introduction to Earth Science* (lecture and lab) and *Geology, Resources and Environment* (lecture only). A Master's degree in Earth Science, Geology, or a closely related field is required.

To apply, send cover letter, resume or C.V., and a list of three references to:

Karen Bartels
Earth Science
Northeastern Illinois University
5500 N. St. Louis Ave.
Chicago, IL 60625

Or submit via e-mail to:

K-Bartels@neiu.edu

For more information, contact Professor Bartels at the above email address or at 773-442-6052.

Karen S. Bartels, Ph.D.
Associate Professor and Department Coordinator

Job Description

Job Title: Seismologist/Geophysicist

Job ID: 60416

Location: SNL New Mexico - SA

Ladder: Tech Staff

Level: Member Technical Staff

Occupation: Geology

Department: 05736

Full/Part Time: Full-Time

Regular/Temporary: Regular

Clearance Required: Y

Clearance Required to Start: N

Job Requires a Polygraph: N

Posting Open Date: 04/29/2008

Posting Close Date: 05/13/2008

Department Description

The Sandia Ground-Based Monitoring R&E Department (5736) researches and develops ground-based monitoring technology (primarily seismic) for the verification of compliance with treaties limiting the testing of nuclear weapons. Our work focuses on very low noise sensors and instrumentation, signal processing and analysis, computing and software development, system integration, and test and evaluation. We have professional staff with expertise in seismology, electrical engineering, digital signal

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processing, and computer science, and operate unique sensor and system test facilities (the Sandia FACT site). Our department has program management responsibility for several customers involved with ground-based nuclear explosion monitoring.

Job Description

A scientist is needed to support seismology research and development for ground-based nuclear explosion monitoring applications. US authorities use seismic and acoustic/infrasonic signals to detect, locate, and identify nuclear explosions. Ongoing work involves research and development of sensor networks and data processing and analysis systems to improve monitoring systems. Research areas of interest include geophysical instrumentation, model-based signal processing, improved seismic source characterization, and application of complex 3D geophysical models of velocity and attenuation to prediction of signal observables. Development of research proposals and publication will be encouraged. Some travel will be required.

Required / Desired Criteria

Required: Advanced degree in seismology/geophysics or related scientific field. Experience in some of the following: conducting seismic research, development of seismic monitoring systems, or signal processing and analysis.

Desired: PhD in seismology/geophysics. Experience in some of the following: ground-based nuclear explosion monitoring systems and technologies, explosion source phenomenology, modeling and simulation using high-performance computing, and development, validation, and use of complex earth models.

Equal Employment Opportunity

Sandia National Laboratories is an Equal Opportunity Employer M/F/D/V. If this position requires a Department of Energy (DOE)-granted security clearance, U.S. citizenship and employee eligibility for clearance processing will be required at the time of hire. If you hold dual citizenship and you accept a job offer for a position that requires a DOE-granted security clearance, you may be asked by DOE to renounce your foreign citizenship and retain only your U.S. citizenship.

Applicant Home Page 1 of 2

https://ws35snlnt.sandia.gov/psc/applicant/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_CE.GBL

LECTURER POSITION - DEPARTMENT OF GEOLOGICAL AND ATMOSPHERIC SCIENCES -IOWA STATE UNIVERSITY

The Department of Geological and Atmospheric Sciences at Iowa State University invites applications for the temporary position of Lecturer for academic year 2008-2009 (consideration may also be given to candidates who will be available only for fall 2008). The successful candidate must be able to teach hydrogeology. The remainder of the load is negotiable, both in terms of total number and type of classes. Potential areas of need include, but are not restricted to, environmental geochemistry, contaminant hydrogeology, isotope geochemistry, introductory geology, oceanography, and historical geology.

Candidates must have a minimum of a Masters degree (or ABD) in Geology or related area. All applications must be submitted electronically at www.iastatejobs.com (search vacancy ID# 080294). Please be prepared to enter or attach a letter of application, curriculum vitae, and the names, addresses, e-

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mail addresses, and phone and fax numbers of at least three references. Any additional application materials may be mailed to: Carl Jacobson, Chair, Department of Geological and Atmospheric Sciences, 253 Science I, Iowa State University, Ames, IA 50011-3212.

To ensure consideration, submit application by June 15, 2008. The search will continue until the position is filled. Information about the Department appears at: <http://www.ge-at.iastate.edu/>. Iowa State University is an equal opportunity/affirmative action employer.

CONTRACT FACULTY POSITION/HYDROGEOLOGY -- DEPARTMENT OF GEOLOGY -- BALL STATE UNIVERSITY, MUNCIE, INDIANA

Contract faculty position available August 22, 2008, for the academic year. Responsibilities: teaching 12 hours each semester in courses and laboratories in introductory geology, hydrogeology, near-surface geophysics, and other environmental/engineering geology coursework depending on qualifications; participating in scholarly and service functions of the department.

Minimum qualifications: master's degree or doctorate in geology; college teaching and/or professional experience; appropriate background to teach hydrogeology.

Preferred qualifications: doctorate in geology; background to teach near-surface environmental geophysics; record of quality college teaching; effective interaction with other faculty and students on individual projects and research.

Send letter of application, curriculum vitae, statement of teaching and research interests and goals, names and contact information for at least three professional references, and transcript of highest degree earned to: Dr. Scott Rice-Snow, Chairperson, Department of Geology, Ball State University, Muncie, IN 47306 (or) fax: 765-285-8265. Review of applications will begin immediately and will continue until the position is filled. (www.bsu.edu/geology)

Ball State University is an equal opportunity, affirmative action employer and is strongly and actively committed to diversity within its community.

Position is available at **WOODS HOLE OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MA** for a finishing undergraduate. The Coastal Systems Group has an opening for Research Assistant running the X-Ray Fluorescence core scanner (here's more info: <http://www.whoi.edu/science/GG/coastal/facilities/xrf.html>). The position is 12 to 18 months in length and they are looking for candidates with a strong background in chemistry and/or physics and who also have an interest in paleolimnology, paleoceanography, or paleoclimatology. If interested, contact Jeff Donnelly (jdonnelly@whoi.edu) at WHOI.

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INSTRUCTOR IN GEOLOGY, BOWLING GREEN STATE UNIVERSITY

Position Title – Instructor in Geology (1 year full-time contract with benefits, based on annual evaluation may be renewed for 3 years with possibility of additional 3-year extensions)

Department – Geology

Key Duties and Responsibilities - The position involves two distinctive components. First, the instructor will spend nine weeks off-campus participating in the entirely field-based interdisciplinary program, GeoJourney (www.geojourney.org). Second, the instructor will spend a typical 16-week academic semester on-campus teaching classroom-based and online introductory geology courses.

Department of Geology – The Department of Geology offers BA, BS, and MS degrees in Geology and has 12 full-time faculty. It is housed in a modern, fully-equipped classroom/laboratory building with excellent teaching and research space. The department is part of the School of Earth, Environment and Society, which offers opportunities for collaboration with Geography, and Environment Programs.

Qualifications – MS or PhD in the geosciences, archaeological sciences, or related area. Preference will be given to candidates with a background in geoarchaeology. Experience in field-based teaching is strongly preferred.

Salary – Competitive salary with benefits

Starting Date – August 20, 2008

Application Procedure – Interested candidates should submit a curriculum vitae, a letter of application expressing what the candidate feels she/he would contribute to the GeoJourney program and the BGSU Department of Geology, and three letters of recommendation to: Dr. Sheila Roberts, Search Committee, Department of Geology, 190 Overman Hall, Bowling Green, OH 43403. Application deadline is May 30, 2008.

Electronic or Fax applications will be accepted, but originals must be submitted prior to hiring. Final Candidates will be asked to submit official transcripts.

BGSU is an AA/EEO employer/educator and welcomes applications from women, minorities, veterans, and persons with disabilities.

UNIVERSITY OF WISCONSIN EAU-CLAIRE - DEPARTMENT OF GEOLOGY

POSITION:

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*The Department of Geology at the University of Wisconsin-Eau Claire invites applications for a 100% one-year Instructional Academic Staff position with a title of **Visiting Assistant Professor or in the Lecturer series**. The appointment will begin on **August 18, 2008**.*

QUALIFICATIONS:

An M.S. is required but preference will be given to individuals that have a Ph.D. or are ABD in geology or a closely related discipline at the time of appointment. A demonstrated ability to teach a laboratory and field intensive introductory Earth Science course for education majors and success in teaching at the undergraduate level may be considered an asset. The ability to enhance the diversity of the department and serve as a role model and mentor for women and/or minorities may also be considered an asset.

RESPONSIBILITIES:

Applicants will be expected to participate in teaching laboratories and field intensive introductory Earth Science course for education majors.

DEPARTMENT:

The Department of Geology currently has eight faculty, seventy two majors/minors, and offers a bachelor's degree in geology. Students are given an opportunity to choose an emphasis in general geology, hydrogeology and water chemistry, environmental science, or marine geology. The department is well equipped for collaborative research. Our laboratory facilities include a modern electron microscope laboratory (SEM-EDS and JEOL 2010 analytical TEM), Bruker SRS 3000 XRF spectrometer, Thermo-Finnigan Element 2 ICPMS, Rigaku – automated powder diffractometer, 8-station computer laboratory, complete geophysical instrumentation, a high P/T experimental petrology laboratory, micro – FTIR spectrometer, and a hydrogeology laboratory with on-campus water table observation wells, piezometers, and lysimeters. The department has access to other sophisticated equipment through collaborations.

UNIVERSITY & EAU CLAIRE COMMUNITY:

The University of Wisconsin-Eau Claire campus community consists of 10,500 students and 700 faculty and administrative/professional staff. As the UW System's only Center of Excellence for Faculty and Undergraduate Research, faculty and students regularly work side-by-side on original research. Often described as Wisconsin's most beautiful campus, UW-Eau Claire's campus spans the banks of the Chippewa River in the heart of Eau Claire, western Wisconsin's largest city. Eau Claire and the surrounding countryside have many scenic rivers, lakes, parks, bike trails and wooded areas where students and community members enjoy seasonal sports, camping and a variety of other recreational activities. A community of 60,000, Eau Claire is a safe, friendly, and affordable community with employment opportunities for family members and outstanding schools for children. Eau Claire is just 90 miles from Minneapolis-St. Paul which offers world-class theater, symphony and chamber orchestras, opera, and restaurants as well as professional sports, shopping, and cultural diversity.

APPLICATION PROCEDURE:

Send materials to:

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Office of Affirmative Action
P.O. Box 4004
University of Wisconsin-Eau Claire
Eau Claire, WI 54702-4004

For priority consideration, submit application materials by May 9th, 2008; however, applications will be considered until the position is filled. The university reserves the right to contact additional references with notice given to the candidates at an appropriate time in the process. Applicants' names are subject to public release unless confidentiality has been requested in writing. Names of all finalists must be released. A criminal background check will be required prior to employment. UW-Eau Claire is an AA/EEO employer. To learn more, visit our Web site: <http://www.uwec.edu/acadaff/jobs/>.

SHAW ENVIRONMENTAL, INC --ENTRY-LEVEL GEOLOGIST, HYDROGEOLOGIST OR ENGINEER

Shaw Environmental, Inc. is one of the largest providers of environmental and infrastructure services in the world. "A World of Solutions" characterizes our culture and the broad range of our capabilities, products, services and expertise. It is a most exciting period in our history; our 25,000 employees tackle environmental challenges throughout the U.S. and internationally. We are currently seeking dedicated professionals for our office located in St. Charles, Illinois.

JOB DESCRIPTION –ENTRY-LEVEL PROFESSIONAL:

Perform various aspects of project-related work including:

- Soil and groundwater sampling
- Field inspection
- Monitoring well installation and testing
- Oversight of subcontractors
- Modeling
- Potential for project management – project and budget tracking, client relations, etc.
- Project activity coordination
- Technical proposal and report writing

QUALIFICATIONS:

- BS/MS Geology, Hydrogeology, or Civil, Environmental or Geological Engineering
- 0-2 years experience
- OSHA 40-hour training
- Knowledge of federal and state environmental regulations, a plus
- Knowledge of solid waste projects or remediation systems, a plus
- Ability to work on multidisciplinary project work
- Excellent oral & written communication skills
- Ability to work in a team environment
- Self-starter and problem solver

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☐ Excellent organizational skills

PALEOCLIMATOLOGY/PALEOCEANOGRAPHY Research Scientist Positions at the
LAMONT-DOHERTY EARTH OBSERVATORY OF COLUMBIA UNIVERSITY: Search Number
is LD 670 08 009.

The Lamont-Doherty Earth Observatory of Columbia University seeks applicants for up to three Doherty Research staff positions: Senior Research Scientist (10 years post PhD experience, Research Scientist (6 years post PhD experience, and Associate Research Scientist (2 years of post PhD experience) in paleoclimatology or paleoceanography. Preference will be given to applicants who have strong analytical skills, particularly in emerging methods in paleoceanography, and who have demonstrated experience in planning and implementing ocean sediment coring or other seagoing sample collection expeditions. Applicants should have an interest in developing collaborative projects across other fields of expertise at Lamont including geochemistry, ocean and atmosphere dynamics, terrestrial ecology, and carbon cycle research. The positions will include affiliation with the Lamont Core Repository, and the successful senior applicant will have an opportunity to assume leadership of this facility.

Minimum requirements for the positions are a Ph.D. in related fields, with appointment contingent upon scholarly credentials. Search will remain open for at least 30 days after the ad appears (until May 17th). Send a 2-3 page statement of research objectives, names of five referees, and full curriculum vitae to: Ms. K. Carlsen, HR Coordinator, Lamont-Doherty Earth Observatory Of Columbia University, 61 Route 9-W, Palisades, NY 10964 or email packet to: personnel@admin.ldeo.columbia.edu with Search Nbr: LD 670 08 009 in the subject line.

For more information regarding this recruitment, please contact:
Peter deMenocal, Chair of the Search Committee
Lamont-Doherty Earth Observatory,
61 Route 9W, Palisades NY 10964, USA
or by e-mail to: Peter deMenocal
peter@ldeo.columbia.edu

Columbia University is an equal opportunity affirmative action employer.

Women and minorities are encouraged to apply.

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