

GEOBULLETIN

APRIL 25, 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

April 25 ----- Board of Visitors' Meeting ----- date reserved -----

May 2 ----- Clark Johnson – University of Wisconsin

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 -----

October 10 -----

October 17 -----

October 24 -----

October 31 ----- Rick Lane – VPI

November 7 -----

November 14 -----

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

November 21 -----

November 28 ----- Thanksgiving Recess

December 5 -----

December 12 -----

December 19 -----

SEMINAR:

APRIL 28 -- Video Astrobiology seminar will be Monday, April 28, 1 pm CST, Room 212

POSITION OPENINGS:

- **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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SEMINARS:

The next video astrobiology seminar will be Monday, April 28, 1 pm CST, Room 212:

"Four Approaches to a General Theory of Life" - Presenter: Steven Benner

The search for life in the cosmos has been hindered by the absence of a general theory of life [Cleland]. Theories of life that have been based on the enumeration of properties of the life that we know (such as the cell, gene, and evolutionary theories of life) may even fail as grounds to search for life on Earth, as emerging molecular theories of life have suggested that there might be an entire biosphere in our immediate presence that is obscure to observational tools based on those theories (just as biospheres were overlooked or misunderstood before the invention of the microscope or the sequencing of ribosomal RNA). They are certainly failing as we prepare to look for life on subsurface Mars or, in more exotic environments, Europa, Titan, or Venus. Last, although nearly everyone agrees that Structure Theory from organic chemistry will be a necessary tool to analyze life, it is too broad to distinguish the living from the non-living. This talk will describe recent progress using four approaches to develop a theory of life. These simplify the life we know by going backwards in time towards a simpler life (paleogenetics), attempt to constrain the chemistry of life by defining possible mineral-chemistry interactions at that originated life on Earth, explore the solar system to define possible interactions between chemistries and real planetary environments, and create in the laboratory artificial chemical systems capable of Darwinian Evolution.

Further information is at:

<http://astrobiology.nasa.gov/nai/seminars/detail/120>

POSITION OPENINGS:

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-mail addresses, and phone and fax numbers of at least three references. Any additional application materials may be mailed to:

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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 FUN AT THE BANQUET AND A GREAT WEEKEND!