GEOBULLETIN

NOV 13th, 2009

GeoBulletin is distributed weekly, by E-mail. Contributions are requested! If you have a news item, a request, an announcement etc. email it to geodept@geology.wisc.edu or leave it at the reception desk, Room 236 by noon on Monday.

WEEKS LECTURE - (Sponsor: Anders Carlson)

Rob DeConto

Department of Earth Science
University of Massachusetts - Amherst

Brown Bag/CCR/CPEP talk
Friday, Nov. 13th, 11:00 AM. Weeks Hall, Room A259

"A reevaluation of the Cenozoic evolution and variability of the cryosphere"

Weeks Lecture

Friday, Nov. 13th, at 3:30 PM. Weeks Hall, Room 140

"New perspectives on the past and future stability of the Antarctic Ice Sheet"

Lecturers coming soon:

Nov. 20th	Open
Nov. 27th	Thanksgiving
Dec. 4th	Open
Dec. 11th	Prof. Charles Geiger of Kiel University

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UW Geology Museum Holiday Sale
Friday, December 4th - 10am to 4pm in the museum lobby.
From fossils and minerals to books and jewelry, you'll find special gifts at this holiday sale. All items will be $20 or less!

JOB OPENINGS

THE UNIVERSITY OF TEXAS AT SAN ANTONIO
DEPARTMENT OF GEOLOGICAL SCIENCES, LOW-TEMPERATURE AQUEOUS GEOCHEMISTRY

The University of Texas at San Antonio (UTSA) invites applications for a tenured position at the Associate Professor or Professor level, or a tenure-track position at the Assistant or Associate Professor level, depending upon qualifications. Beginning Fall 2010, in Low-Temperature Geochemistry with emphasis on stable isotopic applications in aqueous or environmental geochemistry. Pending budget approval. This faculty position is in the Department of Geological Sciences, which offers Bachelor's and Master's degrees in Geology. Faculty may also supervise students in Environmental Science M.S. program and in the Environmental Science and Engineering doctoral program. We encourage a multi-disciplinary approach and successful applicants will be expected to collaborate with faculty and students in Chemistry, Civil and Environmental Engineering, and Environmental Science as well as Geological Sciences in performing research, teaching, and service.

Responsibilities include: 1) research and multi-disciplinary and collaborative program development, 2) teaching courses in geology offered at either the UTSA Downtown Campus or the 1604 Campus at the graduate and undergraduate levels in the area of specialization and general education, and 3) service for the Department of Geological Sciences, the College of Sciences, and participation in the activities of the Center for Water Research as well as service in the UTSA community. Teaching responsibilities will include introductory geology courses, introductory geochemistry and related courses, and seminars of special interest to our multi-disciplinary scientific community.

Required qualifications for Assistant Professor: Applicants must have a Ph.D. in Geoscience or closely related discipline with experience in applications to geological problems. **Preferred qualifications:** Research area in low-temperature geochemistry, especially aqueous, environmental, and stable isotopic geochemistry. Documentation of peer-reviewed scholarship, potential for success in grant activity, and potential for excellence in teaching low-temperature aqueous geochemistry and related subjects will be viewed favorably.

Required qualifications for Associate Professor: Applicants must have a Ph.D. in Geoscience or closely related discipline with experience in applications to geological problems. **Preferred qualifications:** Research area in low-temperature geochemistry, especially aqueous, environmental, and stable isotopic geochemistry. Successful candidate will have a record of peerreviewed publications, demonstrated successful grant activity, established successful research programs, an outstanding record of teaching geochemistry and other geological sciences at graduate and undergraduate levels, and a record of successful mentoring of graduate students.

Required qualifications for Full Professor: Applicants must have a Ph.D. in Geoscience or closely related discipline with experience in applications to geological problems. **Preferred qualifications:** Research area in low-temperature geochemistry, especially aqueous, environmental, and stable isotopic geochemistry. Successful candidate will exhibit an outstanding record of peer-reviewed scholarship with national and international recognition, successful continuing research grant activity, extensive success of teaching and mentoring of graduate students, and a distinguished record of leadership in their field, including both research and service components.

Qualified applicants must submit: 1) an original signed letter of application including an indication of the level of position for which applying, 2) a curriculum vitae, 3) a statement of research and teaching interests and experience, 4) the names, addresses (postal and email), and telephone numbers of at least three references, and 5) submit no more than two representative publications if reprints are available. Applicants who are selected for interviews must be able to show proof that they will be eligible and qualified to work in the United States by time of hire.

Applicants must be sent by U.S. mail to: Chair, Aqueous Geochemistry Search, Department of Geological Sciences, The University of Texas at San Antonio, One UTSA Circle, San Antonio, TX

78249-0663. Review of completed applications will begin on 15 December 2009 and continue until position is filled.
Facilities and equipment include both aqueous geochemistry and stable isotope analytical laboratories with a broad range of instrumentation including an ion chromatograph with conductivity detector and autosampler (Dionex DX 500); isotope ratio mass spectrophotometer; gas chromatograph with FI and EC detectors and autosampler (Varian CP 3800); high performance liquid chromatograph with a variable length UV-Vis detector and autosampler (Varian ProStar); CHNS/O elemental analyzer and autosampler (Perkin Elmer PE 2400); atomic absorption spectrophotometer with graphic furnace and FIAS attachments and autosampler (Perkin Elmer PE 700); inductivity coupled plasma mass spectrometer and autosampler (Perkin Elmer ELAN 9000); a liquid scintillation counter (Beckman LS 6500); UV-visible light optical spectrophotometer with sipper attachment (Varian Cary 50); microplate spectrophotometer (Biorad Benchmark Plus); RoboCycler® gradient temperature cycler for PCR amplifications, nucleic acid, protein electrophoresis and gel-blot systems; gel-doc imaging system; optical spectrophotometer and colorimeter; and an anaerobic chamber.
UTSA is one of the largest public universities in south Texas serving more than 28,000 students. Nearby higher education and research institutions include the UT Health Science Center and the Southwest Research Institute. The city of San Antonio, the seventh largest city in the United States, blends cosmopolitan progress with a rich sense of history and tradition. UTSA is an Affirmative Action/Equal Employment Opportunity Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply. Further information about the department and UTSA is available on our Web page: http://www.utsa.edu/geosci

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UNIVERSITY OF MASSACHUSETTS - AMHERST
Post Doctoral Research Associate Position, Materials Science - Cosmochemistry

To employ electron microscopy (scanning electron microscopy, electron probe microanalysis and transmission electron microscopy) and optical microscopy to determine the microstructure and microchemistry of the metal and non-silicate phases in meteorites. To use computer simulation of the kinetics of phase reactions-transformations (Widmanstatten pattern, diffusion controlled growth, spinodal, etc) to determine the thermal history of meteorites and their parent asteroidal bodies. To study the effects of shock and thermal reheating on the micron and nm level to determine the environment in which these meteorites formed. Finally, to use the information gathered from these studies in order to investigate the early history of our solar system.

The laboratories of UMass are well equipped to carry out this research project. The successful candidate will be working closely with Prof. Joseph I Goldstein whose has expertise in electron microscopy and meteorite microstructure. Applicants are to send a resume and cover letter to Dr. Goldstein at <mailto:jig0@ecs.umass.edu>jig0@ecs.umass.edu. This research is supported by a grant from the NASA cosmochemistry program. The position is available starting 12-01

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SMU Center for the Environment seeks Director

Established in 2009, the mission of the SMU Center for the Environment is to promote research, education and community outreach to meet the challenges of sustainability and

maintenance of a healthy environment. This position requires a leader who thinks broadly, and who will reach across disciplines in the development of research and programmatic activities supported by the Center.

Stephanie Schwob
Department of Earth Sciences, Southern Methodist University, Phone: 214-768-2770, sschwob@smu.edu

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University *of* Wisconsin-Eau Claire
Department of Geology
http://www.uwec.edu/geology/index.htm

POSITION:
The Department of Geology at the University of Wisconsin-Eau Claire invites applications for a tenure-track position at the assistant professor rank in ***Earth and Environmental Science***, with an appointment that begins on August 23, 2010.

QUALIFICATIONS:
A completed Ph.D. in geology, environmental science or a closely related discipline is required at the time of appointment. This position requires a demonstrated ability to teach an inquiry-based, laboratory and field intensive, introductory Earth and Environmental Science course for the General Education program and education majors (grades 1-9). Area of specialization is open, but should be focused on earth and environmental sciences, including but not limited to: the interface of geology and biology, environmental remediation, microbes in the environment or earth resources. The following attributes are considered assets for the position:

- success in teaching earth science at the undergraduate level
- a demonstrated record of scholarship and grant acquisition
- the ability to participate in team-taught courses within the department and across the university
- the ability to add to the synergistic, collaborative nature of the department and to complement department strengths
- the ability to bring diverse perspectives to the campus

RESPONSIBILITIES:
The primary responsibility will be to develop a laboratory and field intensive lower division Earth and Environmental Science course for general education and education students. In addition, the successful applicant will have the opportunity to develop courses in their area of specialty and to collaborate on interdisciplinary courses with faculty from other departments and across the university. The successful applicant will be expected to develop interdisciplinary Earth and Environmental Science curricula that will integrate with the newly developed Watershed Institute for Collaborative Environmental Studies and to participate in curricular innovation consistent with the university Strategic Plan. The establishment of a successful collaborative student-faculty research program within the area of specialization is required.

DEPARTMENT:
The Department of Geology offers a B.S. degree in geology and consists of eight faculty and approximately eighty majors/minors. Students may choose an emphasis in general geology, hydrogeology and water chemistry, or environmental science. A recently developed program in earth and space science leads to a grade 6-12 teaching certification. The department prides itself on a long tradition and central focus on collaborative student/faculty research. Laboratory facilities include a state-of-the-art electron microscope facility (SEM-EDS and JEOL 2010 analytical TEM), a modern analytical geochemistry laboratory containing a Thermo-Finnigan Element 2 HR-ICPMS, a Siemens SRS 3000 XRF spectrometer, and a Rigaku powder diffractometer, a high P/T experimental petrology laboratory, micro-FTIR spectrometer, a 12-station petrography laboratory, a structure/hydrogeology laboratory consisting of a 10-station computer laboratory, geophysical instrumentation, and an on-campus hydrogeology laboratory with water table observation wells, piezometers, and lysimeters. The Department is a collaborative member of the Materials Science Center, a consortium between Biology, Chemistry, Geology and Physics focused on nanoscience, materials science research and collaboration with industry.

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:

Interested individuals should provide a letter describing their background, qualifications for the position, and a statement of teaching and research interests, a curriculum vitae and unofficial copies of university transcripts. This packet should be sent electronically via e-mail (PDFs strongly preferred) the GeologyHire@uwec.edu. Three individual referees must submit letters of recommendation electronically or by mail addressed to Robert Hooper, Chair, Department of Geology, University of Wisconsin-Eau Claire, Eau Claire, WI 54702-4004.

For priority consideration, submit application materials by January 15, 2010; 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/.

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Department Chair Position
Department of Geological & Environmental Sciences
Youngstown State University

The Department of Geological & Environmental Sciences (www.ysu.edu/ges) at Youngstown State
University (www.ysu.edu) invites applications for the position of Department Chair to be appointed at
the Associate or Full Professor level, available summer 2010. The successful candidate should qualify for
tenure based on prior experience, and is expected to maintain a vigorous research program involving
undergraduate and MS students A Ph.D. in the area of Environmental Science, Environmental Geology,
Soil Science, or related fields is required. In addition to leading the Department, the successful
candidate will be expected to lead an interdisciplinary team of Environmental Studies faculty into full
recognition as a Center of Excellence at YSU. Please send a summary of past research achievements and
future goals, statement of departmental leadership philosophy, statement of teaching philosophy, and
curriculum vitae (highlighting past management and leadership experience) to the Search Committee
Chair, Department of Geological & Environmental Sciences, Youngstown State University, One University
Plaza, Youngstown, OH 44555. The position will remain open until filled. Inquiries about the position

should be directed to the search committee chair: Dr Peter Norris; pnorris@ysu.edu; 330-941-3612.
YSU is an affirmative action/equal opportunity employer committed to increasing the diversity of its
faculty, staff and students.