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 office, Room 225 by Noon on Monday.

**Weeks Lecture**

*Speaker list - Fall 2011*

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**Friday, Nov 18, 2011:**

Sumit Chakraborty, MSA (Host: Valley)

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**DR. SUMIT CHAKRABORTY**

Institut fuer Geologie, Mineralogie and Geophysik, Ruhr-Universitaet Bochum, Germany

How long do geological processes last? – The long and the short of it

**Friday, Nov 18th, 2011, 3:30 PM, Weeks Hall Room AB20**
Friday, Dec 2, 2011:
Jessica Blois, UW-Madison (Host: Peters)

Friday, Jan 27, 2012:
Department Welcome Back

Friday, Feb 03, 2012:
Peter Wilf, Penn State (Host: Geary/Peters)

Friday, Feb 10, 2012:
Greg Waite, Michigan Tech (Host: DeMets)

Friday, Feb 17, 2012:
Margaret Fraiser, UW-Milwaukee (Host: Peters)

Friday, Feb 24, 2012:
Emile Okal, Northwestern University (Host: Tobin)

Friday, Mar 9, 2012:
Aradhna Tripati, UCLA (Host: Carlson)

Friday, Mar 16, 2012:
Matt Hurtgen, Northwestern (Host: Peters)

Friday, Mar 25, 2012:
Marin Clark, Univ of Michigan (Host: Goodwin)

Friday, Apr 13, 2012:

BOV
Geoscientist Intern

Concho Resources Inc. is seeking applicants to fill a summer 2012 geoscientist intern position. Qualified applicants should have a BS in geology/geophysics by spring 2012, with a minimum 3.0 GPA overall; and be enrolled (or accepted) in a graduate Geoscience related degree program. The intern will focus on a project of material significance to the company, with the opportunity/expectation of integrating with a fully functional exploration and/or production team (including engineers, landmen, and various support staff). The level of discipline integration will be commensurate with the individual’s academic and/or industry experience.

- Learning opportunities/expectations may include:
  - Geoscience role
    - Play and prospect analysis
    - Subsurface mapping
    - Reservoir evaluation
    - Petrophysical log interpretation
    - Seismic interpretation
  - Field operations
    - Wellsite operations
    - Well logging
    - Commercial economic analysis
    - Risking of plays and prospects

Mentoring will be provided by one or more experienced senior geoscientist(s). At the end of the summer, the intern will present the results of their project (as well as their recommendations) to senior management. The goal of the internship is to expose the intern to the same type of projects, expectations, and environments that they would encounter upon full employment with the company.

Concho Resources Inc. is a rapidly growing public company headquartered in Midland, TX, with a market cap of $8.6 billion dollars and over 550 full time employees. Concho is one of the most active players in the Permian Basin, with excellent opportunities for future growth. Please visit www.conchoresources.com for more information.

Contact:
Fred H. Behnken  
Mgr, Geosciences Technology  
COG Operating LLC (aka Concho Resources)  
Phone: 432-818-2313  
Email: fbehnken@concho.com

We want to make you aware of a tremendous scholarship-for-service opportunity for your students to fully fund their undergraduate or graduate education at your institution, and request that you make them aware of this opportunity. The SMART (Science, Mathematics, and Research for Transformation) Program will pay for all educational expenses for a B.S., M.S. or Ph.D. program, and then provide scholars unique opportunities to work as research scientists or engineers on cutting edge technology in world class Department of Defense facilities. A comprehensive list of facilities can be found on the SMART website: http://smart.asee.org/

This is a highly competitive, national program, open to U.S. citizens only, so please ask your best students to apply. The SMART program will pay all educational costs and a stipend while they are in school from as little as one (1) term up to 5 years. Specifically the program pays for:

- Full Tuition - to any accredited U.S. University
- A very generous stipend while in school ranging from $25,000 - $41,000 per year
- Book allowance - $1,000
- Health insurance contribution
- Paid Summer internships
- Travel fees for internships
- All required student fees

For more information, see our webpage at http://smart.asee.org/

The application deadline is December 1, 2011, so please let your students know about this program as soon as possible. We would also like to invite you to register to be a potential panelist for the 2012 SMART Evaluation Panel to be held January 19-21, 2012 in Washington, DC. If you are interested in serving as a panelist, please register at https://panelists.asee.org/program_info/smart.

We have just received preliminary approval from our Provost to search for a recent PhD or still-dissertating PhD student to serve as a sabbatical leave replacement for the coming academic year, and possibly part of the next. At the moment, the best fit for us would be someone who could teach during the entire 2013 calendar year (winter and spring trimesters of next academic year, and the fall trimester of the following academic year). We realize this may not work well for people looking for tenure track positions, and would consider someone who could at least teach for winter and spring 2013.

We have a slight preference for someone who could offer an upper-level course in hydrogeology, watershed hydrology or geomorphology/surficial processes, but the primary teaching assignments would be at the introductory level. We do not have the details about compensation yet, but this would be a salaried appointment with fringe benefits. The cost of living in Appleton is very low and there are campus housing options for visiting instructors.
If you know of graduate students who might be interested in gaining some experience in teaching at a small liberal arts college, please encourage them to contact.

Marcia Bjornerud
Professor of Geology
Lawrence University
Appleton WI 54911
phone: 920.832.7015

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JOB OPENINGS:

• Fulltime, 9 month, Assistant/Associate Professor, Department of Geosciences, College of Earth, Ocean, and Atmospheric Sciences at Oregon State University in Corvallis, Oregon
• The Office of Fellowships is offering an Interdisciplinary Postdoctoral Fellowship in the area of stable isotope sciences
• A postdoctoral research associate position in the Department of Earth and Environmental Sciences (EES) at the University of Texas at Arlington is available starting January 2012
• 2 Postdoctoral positions in Computational Mineral Physics at University College London
• Surface Scientist position available within the Surface Analysis Laboratory at Micron Technology in Boise, Idaho.
• The University of Otago is New Zealand’s top-ranked university for research quality-Lecturer in Chemical Oceanography
• Faculty Position - Global Change Ecology -Virginia Commonwealth University
• A Senior Lecturer or Reader is required to strengthen and enhance the research profile of the Department of Physical Sciences and to contribute to teaching across the broad area of physical sciences.
• The Lamont-Doherty Earth Observatory of Columbia University invites applications for three full-time post-doctoral research scientist positions in the field of paleoclimatology and paleoceanography
• The U.S. Geological Survey seeks a field-oriented high-temperature fluid geochemist to participate in the USGS Volcano Hazards and Geothermal Programs.
• Geology and Geological Engineering/Museum of Geology -The Haslem Postdoctoral Fellow/Assistant Professor is available in the Department of Geology and Geological Engineering and the Museum of Geology at the South Dakota School of Mines and Technology.
• Georgia Southern University’s Department of Geology and Geography invites applications for an Assistant Professor of Geology in with expertise in low-temperature or environmental geochemistry.
• Open position in Unimin Corporation for an entry level lab-based researcher:
• Position Available: Researcher and Lab Manager, X-ray Computed Tomography Facility, University of Minnesota
• The Haslem Postdoctoral Fellow/Assistant Professor is available in the Department of Geology and Geological Engineering and the Museum of Geology at the South Dakota School of Mines and Technology
• Georgia Southern University’s Department of Geology and Geography invites applications for an Assistant Professor of Geology in with expertise in low-temperature or environmental geochemistry.
Open position in Unimin Corporation for an entry level lab-based researcher

Position Available: Researcher and Lab Manager, X-ray Computed Tomography Facility, University of Minnesota

The Lamont-Doherty Earth Observatory of Columbia University invites applications for three full-time post-doctoral research scientist positions in the field of paleoclimatology and paleoceanography

Assistant Professor in Planetary Sciences - Purdue University

JOB OPENINGS:

Fulltime, 9 month, Assistant/Associate Professor, Department of Geosciences, College of Earth, Ocean, and Atmospheric Sciences at Oregon State University in Corvallis, Oregon. We seek an outstanding scholar who will develop a strong teaching, research and service program. The ideal candidate will integrate earthquake geology and active tectonic research with other disciplines, e.g. seismology, GPS-satellite geodesy, structural geology, tectonics and sedimentation, Quaternary age-dating techniques, regional tectonics, and remote sensing. The successful candidate is expected to teach graduate courses in his/her field of expertise and contribute to the undergraduate structural geology and field geology curriculum. The RS Yeats Endowment provides a substantial stipend for use in support of the endowed Professor's research, teaching, and service. Requires: Ph.D. in geology, geophysics, or a closely related field. Must demonstrate ability or significant potential for teaching excellence, be committed to educational equity in a multicultural setting, have a strong scholarly potential that includes an active research agenda, peer-reviewed publications, and ability to obtain external research funds. For complete position description and to apply, see http://oregonstate.edu/jobs (posting 0008277). For additional information please contact: Dr. John Dilles, Search Chair, (541) 737-1245, dillesj@geo.oregonstate.edu For full consideration, applications must be received by January 16, 2012. OSU is an AA/EOE.

The Office of Fellowships is offering an Interdisciplinary Postdoctoral Fellowship in the area of stable isotope sciences. Research proposals must integrate the use of stable isotopes (2H/1H, 13C/12C, 15N/14N, and 18O/16O) into their specific research questions. Stable isotope analysis must comprise a significant portion of the research. The successful applicant will conduct analyses at one of the two Pan-Institutional isotope facilities (OUSS/MCI Stable Isotope Mass Spectrometry Facility in Suitland, MD or at the Smithsonian Tropical Research Institute, Panama City, Panama). Applicants interested in this fellowship are strongly encouraged to contact potential advisors/hosts at any of the Smithsonian's various Museums and Research Units prior to proposal preparation and submission. Prior Isotope Fellows are not eligible. Please consult the research staff listed for the Museum, Research Units, and Offices at the links to Smithsonian Opportunities for Research and Study below.

Applicants must propose to conduct research in-residence for a period of 12 months, at least 4 months of which will be spent on-site at the MCI or STRI laboratory. Applicants must have completed or be near completion of the Ph.D. Recipients who have not completed the Ph.D. at the time of application must provide proof of completion of the degree before the fellowship begins. Please go to http://www.si.edu/research+study for details on the SI fellowship program. Applications must be submitted by Jan 15, 2012. Access to the online application system and information regarding the necessary materials can be found at http://www.si.edu/ofg/Applications/SIFELL/SIFELLapp.htm

For additional information on the OUSS/MCI Stable Isotope Mass Spectrometry Facility in Suitland, MD
For further information on this message, contact Peter Marra, Smithsonian Migratory Bird Center, x31594 (VoIP), 202-633-1594 (non-VoIP), marrap@si.edu.

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A postdoctoral research associate position in the Department of Earth and Environmental Sciences (EES) at the University of Texas at Arlington is available starting January 2012. Funding for this position is provided in part by NSF and NASA, through the ongoing CALIPSO project on the actively erupting Soufriere Hills volcano on Montserrat, West Indies (http://www.uta.edu/faculty/mattioli/research/CALIPSO/Intro.html). The initial appointment will be for one year and may be renewed for at least an additional year, with a satisfactory annual review.

The CALIPSO project focuses on using data from the CALIPSO Facility (borehole strain, seismometers, and surface cGPS) to develop models for the evolution and dynamics of the active SHV magmatic system over a range of temporal and spatial scales. The successful candidate should have a demonstrated background in one or more of the following areas: 1) inversion of surface deformation data; 2) FEM modeling of dynamic magmatic systems or volcano edifice instability; 3) analysis of borehole strain and/or seismic data; or 4) analysis of high-rate GPS data.

A Ph.D. in Earth Sciences or a related field is required and demonstrated computer and modeling skills are a must. Some familiarity with operation of remote geophysical data acquisition systems is desirable. Ability to work as part of a team, which includes graduate students and other CALIPSO PIs is essential. Completed applications consist of: a curriculum vitae; statement of research experience and goals; and names and contact information of at least four individuals who would be willing to provide letters of recommendation.

Applications should be submitted by December 1, 2011, but will continue to be reviewed until the position is filled. If possible, interviews will be conducted at Fall AGU, or by phone. Applications in Adobe PDF format should be submitted electronically to gmattioli@uta.edu. Print applications may be mailed to: Dr. Glen S. Mattioli, Department of Earth and Environmental Sciences, University of Texas at Arlington, 500 Yates St., Arlington, Texas 76019.

UT Arlington is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply. A criminal background check will be conducted on finalists.

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2 Postdoctoral positions in Computational Mineral Physics at University College London

Position 1: This position will focus on using DFT calculations to obtain the elastic properties of Fe-bearing minerals at the temperature and pressure conditions of the Earth's lower mantle. The overall aim is to understand if ULVZs (ultra-low velocity zones) are compatible with areas of high iron enrichment.

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Position 1: This postdoctoral position will use DFT molecular dynamics calculations to obtain the properties of silicate melts at the high temperature and pressure conditions of the Earth's mantle. The overall aim is to
understand how the properties of deep melts in the deep Earth affect the evolution and dynamics of the Earth.

Salary range for both positions is £30,000 to £39,000 per year.

More information about the positions and how to apply can be obtained from links at:

http://www.es.ucl.ac.uk/people/brodholt/

or by contacting John Brodholt directly (j.brodholt@ucl.ac.uk)

Deadline for both positions is Nov 30th.

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Surface Scientist position available within the Surface Analysis Laboratory at Micron Technology in Boise, Idaho. This position involves the application of TOF-SIMS, XPS, XRR, and XRD to a variety of R&D and manufacturing support areas. For more details or to apply on-line, please see:

https://micron.taleo.net/careersection/10000/jobdetail.ftl.  XPS Surface Scientist - BOI27719

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The University of Otago is New Zealand's top-ranked university for research quality-Lecturer in Chemical Oceanography-1100548 -DEPARTMENT OF CHEMISTRY

Applications are invited for the position of Lecturer in any area of Chemical Oceanography. Candidates with interests that align with the Department's current strengths in analytical chemistry and biogeochemistry are particularly encouraged to apply. The primary criteria for appointment will be a demonstrated potential for excellence in research and a strong commitment to research-informed teaching. The successful applicant will have a PhD degree and high-quality published research, and will be expected to establish an effective individual research programme in the Department, including seeking external funding support for research. The Department has considerable geochemical research infrastructure that will be available to the successful candidate. In addition to contributing to the teaching programme in their relevant specialist area of Chemistry, the successful applicant will also be expected to teach general Chemistry at the first-year undergraduate level.

Consideration will be given to the appointment of an exceptional candidate at the level of Senior Lecturer. Such a candidate would be expected to provide leadership in teaching and research.

Specific enquiries may be directed to Professor Lyall Hanton, Head of Department of Chemistry, Tel 03 479 7918, Email: lhanton@chemistry.otago.ac.nz

Applications will close on Monday, 12 December 2011.

To see a full job description and to apply online go to: www.otago.ac.nz/jobs

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Faculty Position - Global Change Ecology -Virginia Commonwealth University

The Department of Biology at VCU invites applications for an ecologist specializing in the effects of global change at the ecosystem or landscape level. Special consideration will be given to applicants who can demonstrate a potential to collaborate with our current faculty. This is a nine-month, tenure-track position at the
The successful applicant will be expected to develop a productive, externally-funded research program and direct graduate students through the Ph.D. level. Primary teaching responsibilities will include related undergraduate and graduate courses. Postdoctoral experience is expected and demonstrated evidence of excellence in scholarship and teaching is required. In addition, applicants must have experience working in and fostering a diverse faculty, staff, and student environment or commitment to do so as a faculty member at VCU. Competitive start-up funds are available.

Virginia Commonwealth University has an enrollment of 32,000 students, including over 1,900 undergraduate and 75 graduate students in Biology. The Department of Biology (www.has.vcu.edu/bio) has 39 faculty members with diverse research interests in the following three areas of excellence: Cell Regulation, Evolution, and Ecological Processes and Applications. Additional research opportunities are available through the Center for Environmental Studies (http://www.vcu.edu/cesweb/) and at the Rice Center, VCU's nearby field station on the James River (http://www.vcu.edu/rice/).

Electronic submission of applications to: biology@vcu.edu is preferred, but hard copies of vitae, statements of research and teaching interests, and three letters of reference may be sent to: Stephanie Millican, Department of Biology, Virginia Commonwealth University, Richmond, VA 23284-2012. Closing date for receipt of applications is December 15, 2011.

Virginia Commonwealth University is an equal opportunity/affirmative action employer. Women, minorities, and persons with disabilities are encouraged to apply.

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A Senior Lecturer or Reader is required to strengthen and enhance the research profile of the Department of Physical Sciences and to contribute to teaching across the broad area of physical sciences. Your research should complement existing areas in our Centre for Earth, Planetary, Space and Astronomical Research (CEPSAR), particularly those in Planetary and Space Sciences and in the field of Astrobiology. We particularly welcome applications from candidates whose research includes laboratory studies of fluid-rock-microbial interactions and the study of biosignatures. You will also contribute to the design and delivery of OU modules at undergraduate and postgraduate level in the Physical or Geo Sciences programmes.

Candidates should also have a strong track record in research and research management, with a recent history of winning funding. They should be familiar with recent developments in space exploration missions within and beyond the Solar System. They must be committed to principles of equality and diversity in the teaching of science, and should preferably have some experience of distance education.

Closing date: 2 December 2011.


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Three Post-Doctoral Research Scientists in Paleoclimatology and Paleoceanography:

The Lamont-Doherty Earth Observatory of Columbia University invites applications for three full-time post-doctoral research scientist positions in the field of paleoclimatology and paleoceanography. The
successful candidates will join a dynamic and interdisciplinary group of scientists working on a wide range of interrelated problems examining Earth's past climate history, ocean chemistry and circulation, ice sheet stability, sea level, and the interactions of the solid Earth, ocean, and cryosphere. The positions are full-time 1-year appointments, with the opportunity for continuation and growth depending on progress and availability of funding.

We seek qualified, highly motivated candidates for the following research activities:

Past sea level changes. The successful candidate will undertake field work and related analyses leading to a better understanding of Plio-Pleistocene sea level history. This work will be part of the larger collaborative PLIOMAX project, and target locations in the circum-Indian and Atlantic Ocean regions; field experience and dating expertise in carbonate sedimentary environments and coral reef ecology and structure is essential.

Contact: Maureen Raymo (raymo@ldeo.columbia.edu)

Sediment geochemistry. The successful candidate will investigate the history of the Laurentide ice sheet over the Plio-Pleistocene through analysis of Gulf of Mexico sediment cores; investigation of multiple proxies and innovative application of new proxies to core material is anticipated; expertise in foram geochemistry, clay mineralogy and/or XRF techniques desirable.

Contact: Maureen Raymo (raymo@ldeo.columbia.edu)

Foraminifer shell geochemistry/paleoceanography. The successful candidate will work on one of several potential research areas including coretop calibrations of planktonic foraminifera and pteropods with oceanic carbon chemistry and physical parameters, Pliocene changes in the composition and ventilation of upper ocean waters, and high-resolution records of Holocene SST variability. The candidate will have experience with species identification, stable isotope geochemistry and analysis, and trace element analyses using quad ICP-MS (mid-2012 delivery).

Contact Peter deMenocal (peter@ldeo.columbia.edu)

Requirements:
A recent Ph.D. in Earth Sciences or a related discipline is required. Experience directly relevant to the research activities described above desirable.

To apply:
Applicants should submit a personal statement describing research experience and interests, including specific reference to the projects listed here, a curriculum vitae, and the names and addresses of three references, to:

https://academicjobs.columbia.edu/applicants/Central?quickFind=55431

Only online applications will be accepted.

Columbia University is an Equal opportunity and affirmative action employer.

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The U.S. Geological Survey seeks a field-oriented high-temperature fluid geochemist to participate in the USGS Volcano Hazards and Geothermal Programs. This permanent full-time position is located in the
Menlo Park, California, Office and is administered by the National Research Program. The research group is largely funded by the Volcano Hazards and the Geothermal Programs and is responsible for conducting basic and applied research investigations on: 1) the geologic, hydrologic, and geochemical manifestations of volcanic unrest and 2) the potential for development of geothermal energy and the actual and predicted impacts of that development. Project personnel make field measurements and collect samples for later laboratory analysis. The primary purpose of this position is to improve techniques for field and laboratory geochemical measurements, evaluate and refine statistical methods of data reduction, establish monitoring networks, collect and analyze samples of gas and water, and relate the findings to assessment of volcanic unrest and/or geothermal energy potential. At the GS-12 level, the level of knowledge required would be reached through successful completion of a relevant PhD program or equivalent doctoral degree in the field of Earth Sciences, or through equivalent experience and knowledge. At the GS-13 level, the level of knowledge required would be reached through successful completion of a PhD program in the field of Earth Sciences and at least one year of specialized work sufficient to demonstrate expertise and leadership in: fluid geochemistry and its application to natural systems, field hydrologic studies of moderate scope, and advanced field and laboratory techniques for chemical and isotopic analysis of gases, waters and rocks. The capability to envision and carry studies through to completion and successfully synthesize the results must be demonstrated by publication of technical reports and published articles in respected scientific journals. Volcanoes threaten population centers throughout the western United States; thus the incumbent must be able to conduct and track several ongoing investigations that may be geographically dispersed over a wide area while still being able to focus major effort on any area that presents an immediate concern. Salary $81,460-$96,867. For details on the vacancy announcement, including specific qualification requirements and application procedures, go to http://www.usajobs.gov and refer to Vacancy Announcements ATL-2012-0025 (for current status employees or reinstatement eligible) or ATL-2012-0026 (for candidates who have never worked for the Federal Government). Address other inquiries to William C.Evans (wcevans@usgs.gov). Applicants must be U.S. citizens. The deadline for applications is November 30, 2011. The U.S. Geological Survey is an Equal Opportunity Employer.

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Geology and Geological Engineering/Museum of Geology -The Haslem Postdoctoral Fellow/Assistant Professor is available in the Department of Geology and Geological Engineering and the Museum of Geology at the South Dakota School of Mines and Technology. A Ph.D. with specialization in paleontology is required. The Haslem Postdoctoral Fellow/Assistant Professor is a research position, and candidates with research experience and expertise that compliment that of departmental faculty and museum personnel are especially encouraged to apply. Occasional teaching opportunities may be available, based on the Fellow's desire for teaching experience and on the department’s need and resources. The Haslem Postdoc will have access to collections, archives, and laboratories of the Museum of Geology’s James E. Martin Paleontology Research Laboratory as well as other analytical facilities in the department and on campus. The Museum houses extensive collections, especially from the Cretaceous Western Interior Seaway, Paleogene White River Badlands, and Neogene Great Plains and Rocky Mountains. The department offers B.S. degrees in Geology and in Geological Engineering, M.S. degrees in Paleontology and in Geology & Geological Engineering, and a Ph.D. in Geology & Geological Engineering. This nine-month appointment is renewable annually for up to three years, with annual performance review and with a possibility of appointment extension. Base salary is $32,000-$35,000, depending upon qualifications and experience. The South Dakota School of Mines and Technology is a public state university offering bachelor, masters, and doctoral degrees in engineering and science. The University’s research programs focus on the following four areas: Energy and Environment; Materials and Manufacturing; Underground Science and Engineering; and Science, Technology, Engineering, and Mathematics (STEM) Education. The School of Mines’ approximately
2,300 students include traditional and non-traditional learners from 38 states and 32 countries. Located in Rapid City, South Dakota’s second largest city, the University is only 25 miles from Mount Rushmore and the beautiful Black Hills. Rapid City enjoys a relatively mild climate, and the Black Hills offer year-round recreational opportunities. For more information about the School of Mines and Rapid City, visit: www.sdsmt.edu and http://visitrapidcity.com/

The School of Mines is committed to recruiting and retaining a diverse workforce. Individuals interested in this position must apply online at http://sdmines.sdsmt.edu/sdsmt/employment. Human Resources can provide accommodation to the on-line application process and can be reached at (605) 394-1203. Review of applications will begin on December 1, 2011, and will continue until the position is filled. Employment is contingent upon completion of a satisfactory background investigation. This position is funded through an endowment in the SDSM&T Foundation.

South Dakota School of Mines and Technology does not discriminate on the basis of race, color, national origin, military status, gender, religion, age, sexual orientation, political preference or disability in employment or the provision of service.

Georgia Southern University's Department of Geology and Geography invites applications for an Assistant Professor of Geology in with expertise in low-temperature or environmental geochemistry. The full text advertisement, including information about the department, faculty, and the complete position announcement with all qualifications and application instructions, is available at http://cost.georgiasouthern.edu/geo/. Screening of applications begins November 21, 2011, and continues until the position is filled. Georgia is an open records state. Georgia Southern is an AA/EO institution. Individuals who need reasonable accommodations under the ADA to participate in the search process should contact the Associate Provost.

Open position in Unimin Corporation for an entry level lab-based researcher:

Unimin Corporation is an industrial minerals company with an R&D group located in Spruce Pine North Carolina. Unimin supplies high purity quartz to semiconductor and optical fiber industries. Open position in Unimin Corporation for an entry level lab-based researcher (M.S. or B.S. degree) with training in materials science, mineralogy, geochemistry, physics, or chemistry.

Forward a resume through the website at http://unimin.com, or to the following contact

Chris Capobianco
Materials Research Laboratory
P. O. Box 859
Unimin Corp.
Bakersville, NC 28705
ccapobianco@unimin.com

Position Available: Researcher and Lab Manager, X-ray Computed Tomography Facility, University of Minnesota

We are seeking a research scientist to oversee a new high-resolution X-Ray Computed Tomography (XRCT) facility at the University of Minnesota. The lab is housed in the Department of Earth Sciences, but is intended
for use by researchers in earth sciences, anthropology, engineering, materials sciences, medical devices, soil sciences, and other fields. The preferred qualification for the position is a Ph.D. at the time of appointment (in any field relevant to the operation of the XRCT) and either XRCT experience or other relevant technical expertise. The position is annually renewable, with longer contracts possible after the first year. The preferred start date is March 2012.

The XRCT research scientist must have an interest in participating in XRCT-related research, and ideally will conduct their own externally funded research program. In addition, the research scientist will be responsible for routine maintenance, organizing lab scheduling, billing and other accounting, as well as advertising the facility to maintain and expand the user base. Some training will be available, including on-site and off-site advanced user training sessions and workshops.

To apply, go to https://employment.umn.edu and use the following codes: Postdoctoral Associate--Ph.D. with no previous post-PhD research experience (requisition #172658), or Research Associate--Ph.D. with 3 years of post-PhD research experience (requisition #172656). Please attach your resume (CV), statement of research interests, and names and contact information for three references.

Applications will be considered until the position is filled. For more information about the position, contact Professor Martin Saar at saar@umn.edu.

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Three Post-Doctoral Research Scientists in Paleoclimatology and Paleoceanography:

The Lamont-Doherty Earth Observatory of Columbia University invites applications for three full-time post-doctoral research scientist positions in the field of paleoclimatology and paleoceanography. The successful candidates will join a dynamic and interdisciplinary group of scientists working on a wide range of interrelated problems examining Earth's past climate history, ocean chemistry and circulation, ice sheet stability, sea level, and the interactions of the solid Earth, ocean, and cryosphere. The positions are full-time 1-year appointments, with the opportunity for continuation and growth depending on progress and availability of funding. We seek qualified, highly motivated candidates for the following research activities:

Past sea level changes. The successful candidate will undertake field work and related analyses leading to a better understanding of Plio-Pleistocene sea level history. This work will be part of the larger collaborative PLIMAX project, and target locations in the circum-Indian and Atlantic Ocean regions; field experience and dating expertise in carbonate sedimentary environments and coral reef ecology and structure is essential.

Contact: Maureen Raymo (raymo@ldeo.columbia.edu)

Sediment geochemistry. The successful candidate will investigate the history of the Laurentide ice sheet over the Plio-Pleistocene through analysis of Gulf of Mexico sediment cores; investigation of multiple proxies and innovative application of new proxies to core material is anticipated; expertise in foram geochemistry, clay mineralogy and/or XRF techniques desirable.

Contact: Maureen Raymo (raymo@ldeo.columbia.edu)

Foraminifer shell geochemistry/paleoceanographer. The successful candidate will work on one of several potential research areas including coretop calibrations of planktonic foraminifera and pteropods with oceanic carbon chemistry and physical parameters, Pliocene changes in the composition and ventilation of upper ocean waters, and high-resolution records of Holocene SST variability. The candidate will have experience with species identification, stable isotope geochemistry and analysis, and trace element analyses using ICP-MS (mid-2012 delivery).

Contact Peter deMenocal (peter@ldeo.columbia.edu)

Requirements: A recent Ph.D. in Earth Sciences or a related discipline is required. Experience directly relevant to the research activities described above desirable.

To apply: Applicants should submit a personal statement describing research experience and interests, including specific reference to the projects listed here, a curriculum vitae, and the names and addresses of three references, to: https://academicjobs.columbia.edu/applicants/Central?quickFind=55431

Only online applications will be accepted.

Columbia University is an Equal opportunity and affirmative action employer.
Assistant Professor in Planetary Sciences - Purdue University is building a strong new effort in Planetary Sciences. Jay Melosh has joined the Purdue Faculty and, together with Andy Freed, Marc Caffee, and David Minton, has a mandate to expand Planetary Sciences by adding an additional faculty member this year. We seek a broadly based individual for a tenure-track position at the Assistant professor level. The successful candidate will be an outstanding researcher with potential for excellence in teaching at both the graduate and undergraduate levels. We seek someone who will complement our existing strengths in modeling, geodynamics, atmospheric science and isotopic cosmochemistry. In harmony with Purdue's traditional emphasis on science, mathematics and engineering, we seek a quantitatively focused researcher with an interest in planetary surface processes. The Department of Earth and Atmospheric Sciences presently has outstanding programs in geodynamics, isotope geochemistry, terrestrial climate and extreme weather systems.

Applicants must have a Ph.D. in a field related to Planetary Science. Salary and benefits are highly competitive. The appointment will begin in August 2012. Candidates are expected to develop a vigorous research program, obtain external funding, supervise graduate students, and teach undergraduate and graduate courses. Interested candidates should submit their curriculum vitae, publication list, and brief descriptions of their planned research program and teaching philosophy to planetarysearch@purdue.edu. Names and contact information for at least three referees must be included in the application. Information on the EAS department can be found at http://www.purdue.edu/eas/. Applications completed by January 15, 2012 will be given full consideration, although the search will continue until the position is filled. A background check will be required for employment in this position.

Purdue University is an Equal Opportunity/Equal Access/Affirmative Action employer fully committed to achieving a diverse workforce.

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HAVE A GREAT WEEKEND**********