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, Oct 14, 2011:

Terry Plank, Columbia University/LDEO (Host: Singer)

WEEKS LECTURE

DR. TERRY PLANK
Columbia University
Lamont Doherty Earth Observatory

Friday, Oct 14th, 2011, 3:30 PM, Weeks Hall – Room AB20

Hot and Cold Slabs: Water Recycling at Subduction Zones

Why do arc volcanoes appear where they do? What happens deep in the
subduction zone to control the locus of volcanism at the surface? How do slabs heat up as they sink into the mantle, and how much water do they liberate at depth to drive mantle melting and explosive arc volcanism? A growing body of laboratory data provides the basis for new geothermometers that, when combined with new water data from melt inclusions in volcanic crystals, predict slab-fluid temperatures for different subduction zones that are uniformly above the melting point of the slab surface. This leads to a new view of processes in subduction zones. Slab fluids are melts; the mantle wedge is hot; and different volcanoes receive different amounts of recycled water.

Friday, Oct 21, 2011:

Ken Williford, University of Wisconsin (Host: Shanan Peters)

"Insights into Precambrian biogeochemistry from in situ carbon and sulfur isotope analysis".

Friday, Oct 28, 2011:

Chongxuan Liu, Pacific Northwest National Lab (Host: Huifang Xu)

Friday, Nov 4, 2011:

Steve Wesnousky, U.Nevada-Reno Tectonics Institute (Host: DeMets)

Friday, Nov 11, 2011:

Greg Hirth, Brown University (Host: Bonamici)

Friday, Nov 18, 2011:

Sumit Chakraborty, MSA (Host: Valley)
Friday, Dec 2, 2011:
Jessica Blois, UW-Madison (Host: Peters)

Friday, Jan 27, 2011:
Department Welcome Back

Friday, Feb 03, 2011:
Peter Wilf, Penn State (Host: Geary/Peters)

Friday, Feb 10, 2011:
Greg Waite, Michigan Tech (Host: DeMets)

Friday, Feb 17, 2011:
Margaret Fraiser, UW-Milwaukee (Host: Peters)

Friday, Mar 9, 2011:
Aradhna Tripati, UCLA (Host: Carlson)

Friday, Mar 25, 2011:
Marin Clark, Univ Michigan (Host: Goodwin)

Friday, Apr 13, 2011:
BOV

University of Southampton Ocean and Earth Science, National Oceanography Centre Southampton
The National Oceanography Centre Southampton (NOCS) represents an unparalleled investment in marine and Earth science and technology in the UK. It opened in 1995 in a purpose-built waterfront campus in a collaboration between the University of Southampton and the Natural Environment Research Council. The Centre houses around 500 staff. The University component comprises about 120 staff, 600 undergraduate and 200 postgraduate students. Further information can be found at http://www.southampton.ac.uk/oes/. Across the University, we have strong links with biologists, chemists, engineers, physicists and medics. We have a diverse range of excellent laboratory and seagoing facilities. The Centre provides a
unique intellectual environment for conducting world-class research and for training the next
generation of scientists for a wide range of careers. To achieve a step change in the breadth of our
research activity, during the next 12-18 months we plan to recruit up to ten academic staff across a
range of disciplines. Up to two of these posts will be at Chair level (Ref **; salary from **), up to three
will be at Reader/Senior Lecturer level (Ref **; salary **- **), and the majority will be at Lecturer
level (Ref **; salary **-**). Chair (full professor) candidates should be widely recognized as
established international leaders in their research field. Readership/Senior Lecturer (equivalent to
tenured associate professor) candidates should also be international leaders in their field but will be
at an earlier career stage. At Lecturer level (equivalent to tenure-track assistant professor), we are
interested in recruiting early-career individuals with growing international reputations for research
excellence and with the ambition to become international leaders in their fields.

Coast and Shelf Oceanography
We expect to make up to three appointments in this area, including one at a senior level. The senior
appointment will have the opportunity to play a leading role in the development of the University’s
new Maritime and Marine Institute. Areas of interest include sediment dynamics; coastal and shelf
morpho-dynamics; shelf, coastal and estuarine oceanography; engineering solutions to coastal
change; socio-economics and the coastal zone.

Marine Biology/Biological Oceanography
We seek a marine biologist/biological oceanographer to join a dynamic group of biologists and
ecologists working in areas spanning marine ecology, molecular biology, marine biogeochemistry
and marine biotechnology. We invite applications from applicants in any area of marine biology
including pelagic ecology of metazoans, fisheries biology, marine biotechnology or marine
microbiology of the water column and sediments.

Organic Geochemistry
We seek applications from those with established expertise in organic geochemistry in its broadest
sense. We wish to develop strength in areas including but not limited to, palaeoclimate and
palaeoceanographic reconstruction, biogeochemical cycles, novel marine compounds with bio-
medical application, petroleum geochemistry, kerogens, soil, peat and coal, and environment and
pollution. We seek to complement our existing strengths by recruiting a potential world-leader who
will develop organic geochemistry research at NOCS.

Sedimentology/Earth Surface Processes
We seek candidates with expertise in sedimentology and/or earth surface processes. Applications
are welcomed from scientists with proven academic experience and research ability (including those
with applied and industrial experience). We seek candidates working in areas including but not
limited to: clastic sedimentology, dynamic stratigraphy, quantitative geomorphology,
morphotectonics, Quaternary science, palaeoclimatology, basin evolution, hydrocarbon exploration.

Palaeomagnetism
We seek candidates with established expertise in palaeomagnetism, with research interests that
include geomagnetic field behaviour, geochronology, tectonics, environmental magnetism, and
technique development. Candidates should be keen to develop dynamic collaborations with one or
more of the following Research Groups: Palaeoceanography and Palaeoclimate; Geochemistry;
Geology and Geophysics; Coastal Processes.

Ocean Biogeochemistry
We seek a marine scientist to join the interdisciplinary world leading Marine Biogeochemistry research group at NOCS. We particularly seek candidates with a strong chemical research focus but welcome candidates with other backgrounds, including microbial biogeochemistry. We expect the appointment to make full use of the opportunities for collaboration at NOCS with e.g. sensor developers, geochemists, and biological and physical oceanographers.

**Atmospheric Science**
We seek candidates with recognized expertise in the atmospheric component of the climate system. We aim to develop a strong profile in climatically important facets of atmospheric science such as experimental and theoretical aspects of atmospheric dynamics, atmospheric chemistry, and atmosphere-ocean interactions. We particularly seek candidates with a research profile that may build on or complement our established oceanographic research.

**Science of the Cryosphere**
We seek candidates with established expertise in the cryospheric component of the climate system in its broadest sense. We aim to develop strength in all aspects of the cryosphere including, but not limited to, ice-sheet/ice-shelf modeling, ice-ocean-climate modelling, modern observation (in situ and/or remote sensing) and palaeo-reconstruction of ice-sheet and glaciological processes, ice-core climate reconstructions, and glacio-geomorphology and -geochronology.

**Natural Hazards**
We seek candidates with established expertise in natural hazards and risks. We aim to develop research in areas including, but not limited to, tropical and extra-tropical storms (including surges), hydrological cycle extremes (floods and droughts), volcanic eruptions, earthquakes, and tsunamis. We particularly welcome applications from candidates with well-developed links to the reinsurance industry.

**Geoengineering**
We have opportunities for multidisciplinary scientists interested in the assessment or development of Geoengineering approaches to tackle the consequences of elevated concentrations of atmospheric CO2. This could entail a Solar Radiation Management and/or Carbon Dioxide Reduction approach or a wide range of carbon capture and storage options (e.g., deep saline aquifers, mineral carbonation). We value linkages with the petroleum, mining, and other industries; experience in public engagement and acceptance, national and transnational governance of Geoengineering approaches; and the Monitoring, Verification, and Accounting of carbon capture and storage.

**Ocean Sensor Development**
NOCS has established itself as a world leader in sensor development, with projects ranging from the building of systems to measure nutrients and carbonate chemistry in the oceans to the fabrication of probes to investigate the chemistry of sub-Antarctic glacial lakes. We seek a talented and ambitious researcher to expand our activities in this area. In addition to the first-class facilities within NOCS, the individual will also have the opportunity to build on our strong links with colleagues in Electronics and Computer Science in the design and fabrication of integrated micro-devices and sensors.

**Reaction Transport Modelling**
We seek quantitative scientists with expertise in reactive tracer transport modeling and experience in the quantitative description of the advection and exchange of heat, fluid, and material in diverse geological environments. Interests could include, but are not restricted to, magma-melt reactions,
sedimentary diagenesis, waste disposal (including nuclear), acid mine drainage, carbon sequestration, metamorphism, hydrothermal exchange and mineralization.

**Candidate Evaluation**

You must have a PhD at the time of appointment and a proven ability to publish innovative, high-quality research. Emphasis will be placed on your track record of publications and grant capture commensurate to career stage and your ability to develop a dynamic, externally funded research program with an international profile. We welcome your application if you pursue fundamental research or if you have the potential to develop applied research and closer links with industry. You will have a commitment to excellence in undergraduate education, including field training oceanography, marine biology or earth science, and a desire to engage in doctoral student supervision by capitalizing on the opportunities presented by our large Graduate School. We are also interested in receiving expressions of interest from early-career scientists for a research fellowship scheme to be advertised later in 2011.

**Application Process**

Enquiries should be directed to Professor Tim Minshull, Head of Ocean and Earth Science (tmin@noc.soton.ac.uk). When applying for a position, please submit your curriculum vitae, concise statements of research interests and aspirations and teaching philosophy and interests, and the names and contact details of at least three referees to www.jobs.soton.ac.uk quoting the relevant reference number and identifying one of the above areas of interest, with an electronic copy to Prof. Minshull. The application deadline is 7th November 2011. Please quote the relevant reference numbers in all correspondence.

The University of Southampton is an exciting and supportive place to work. We offer highly competitive salaries and benefits packages – including a final salary pension scheme and generous holiday allowance. There is also access to excellent sport and leisure facilities and the opportunity to develop your career in a friendly and professional environment.

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**NATIONAL SCIENCE FOUNDATION EAST ASIA AND PACIFIC SUMMER INSTITUTES FOR U.S. GRADUATE STUDENTS - 2012 APPLICATION NOW OPEN**

(Link: [www.nsfsi.org](http://www.nsfsi.org))

The National Science Foundation (NSF) East Asia and Pacific Summer Institutes for U.S. Graduate Students (EAPS1) is a flagship international fellowship program for developing the next generation of globally engaged U.S. scientists and engineers knowledgeable about the Asian and Pacific regions. The Summer Institutes are hosted by foreign counterparts committed to increasing opportunities for young U.S. researchers to work in research facilities and with host mentors abroad. Fellows are supported to participate in eight-week research experiences at host laboratories in Australia, China, Japan (10 weeks), Korea, New Zealand, Singapore and Taiwan from June to August. The program provides a $5,000 summer stipend, round-trip airfare to the host location, living expenses abroad, and an introduction to the society, culture, language, and research environment of the host location. **The 2012 application is now open and will close at 5:00 pm proposer’s local time on November 9, 2011.** Application instructions are available online at [www.nsfsi.org](http://www.nsfsi.org). For further information concerning benefits, eligibility, and tips on applying, applicants are encouraged to visit...
NSF recognizes the importance of enabling U.S. researchers and educators to advance their work through international collaborations and the value of ensuring that future generations of U.S. scientists and engineers gain professional experience beyond this nation's borders early in their careers. The program is intended for U.S. graduate students pursuing studies in fields supported by the National Science Foundation. Women, minorities, and persons with disabilities are strongly encouraged to apply for the EAPSI. Applicants must be enrolled in a research-oriented master's or PhD program and be U.S. citizens or U.S. permanent residents by the application deadline date. Students in combined bachelor/master degree programs must have matriculated from the undergraduate degree program by the application deadline date. The first Summer Institutes began in Japan in 1990, and to date over 2,400 U.S. graduate students have participated in the program.

Should you have any questions, please contact the EAPSI Help Desk by email at eapsi@nsfsi.org or by phone at 1-866-501-2922.

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JOB OPENINGS:

- The Department of Geoscience at the University of Iowa invites applications for a full-time tenure-track position in Sedimentary Geology at the Assistant Professor level.
- Assistant Professor Quaternary Geochronology University of Cincinnati
- Visiting Assistant Professor of Geology -Department of Earth Sciences Montana State University
- Post-doctoral research opportunity - Stable isotope ecology-The Stable Isotopes in Nature Laboratory (SINLAB) at the Canadian Rivers Institute (CRI) and University of New Brunswick (UNB) in Fredericton, New Brunswick, Canada
- Immediate openings for two postdoctoral fellows in geophysics at the Carnegie Institution of Washington’s Department of Terrestrial Magnetism.
- Tenure-track Assistant Professor -Computational Geoscience -University of Illinois
- Research Assistant Professor Position -Vermont EPSCoR Program, University of Vermont
- Tenure Track Assistant Professor - Low Temperature Geochemistry - The Department of Geological Sciences at the University of Missouri
- The Department of Geosciences at Wellesley College invites applications for a tenure-track faculty position
- Post-doctoral Research Associate Program in Geological Sciences, Brown University
- KENT STATE UNIVERSITY -ASSISTANT/ASSOCIATE PROFESSOR IN ENVIRONMENTAL MINERALOGY
- GEORGIA SOUTHERN UNIVERSITY -University System of Georgia -Assistant Professor of Geology
- The Origins Laboratory of the Department of the Geophysical Sciences and Enrico Fermi Institute at the University of Chicago seeks applicants for a postdoctoral researcher position in isotope geochemistry-cosmochemistry
- The Keck Science Department, which houses the biology, chemistry, and physics faculty for Claremont McKenna, Pitzer, and Scripps Colleges (three of the five undergraduate Claremont Colleges), seeks a Physical Geographer
- Faculty Positions in Sedimentary Geology, Geological Sciences, Indiana University, Bloomington
Tenure-Track Faculty Position in Sedimentary Geology/Low-Temperature Geochemistry - Iowa State University

Natural Resource Technology, Inc. (NRT) is seeking an entry-level candidate (0 to 2 years) with a BS/MS degree in environmental engineering, hydrogeology, or environmental science

The Institute of Environmental Science and Technology (ICTA) at the Universitat Autònoma de Barcelona (UAB) invites applications for 1 Fellowship in Marine Palaeoclimatology of 16 Months for an Experienced Researcher (ER) at the Post-Doctoral Level

**JOB OPENINGS:**

The Department of Geoscience at the University of Iowa invites applications for a full-time tenure-track position in Sedimentary Geology at the Assistant Professor level. The appointment will begin in August 2012. We seek an outstanding researcher and teacher whose approach is quantitative, integrative, and preferably field-based. Areas of interest might include but are not limited to: sequence stratigraphy, basin analysis, quantitative stratigraphy, clastic or carbonate sedimentology, petroleum geology, and depositional environments. The successful candidate is expected to establish an active, externally funded research program that complements existing strengths within the Department as well as interdisciplinary initiatives across the University. In addition to attracting and mentoring graduate students, the successful candidate will be expected to teach at the undergraduate and graduate levels, including our required undergraduate majors course: “Sedimentary Geology”. A Ph.D. in geoscience or a related field is required by the time of appointment. Candidates must submit applications online at http://jobs.uiowa.edu/ (requisition 60159). Attachments to the application should include a letter of interest, curriculum vitae, a statement of teaching interests, and a statement that describes current and future research activities. Three letters of recommendation should be sent to: Dr. William McClelland, Search Committee Chair, Department of Geoscience, University of Iowa, Iowa City, IA 52242 (Phone: 1-319-335-1827; e-mail: bill-mcclelland@uiowa.edu). Screening of applications begins December 7, 2011 and will continue until the position is filled. Questions regarding this position can be directed to Dr. McClelland or Dr. Mark Reagan (Geoscience Department Chair; 319-335-1820; mark-reagan@uiowa.edu). The Department and the College of Liberal Arts and Sciences are strongly committed to gender and ethnic diversity. Women and minorities are encouraged to apply. The University of Iowa is an affirmative action/equal opportunity employer.

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Assistant Professor Quaternary Geochronology University of Cincinnati - The Department of Geology seeks a geoscientist for a tenure-track position in Quaternary geochronology. Such an individual's research and teaching might be centered on one or more of the following: (1) uranium series methods for isotopic dating and determining rates of surface processes; (2) low-temperature helium, argon, and/or fission track thermochronometers for quantifying rates of surface and recent tectonic processes as they relate to climate variation and landscape evolution; (3) amino acid racemization of paleobiological and archaeological materials; and (4) radiocarbon dating. The UC Department of Geology has a new multi-disciplinary research and teaching group focused on the geology, paleontology, palaeoclimatology, anthropology, ecology, and landscape evolution of the recent geologic past; a stable isotope and organic biogeochemistry group centered on the global cycling.
interactions, and linkages among Earth's atmosphere, oceans, biosphere, and lithosphere; and state-of-the-art cosmogenic and OSL laboratories. The successful candidate will be expected to generate external funding as part of his/her research program, mentor both undergraduate and graduate students, and offer undergraduate and graduate courses of interest to students in the Departments of Geology, Anthropology, and Geography to promote interdisciplinary interactions in the McMicken College of Arts & Sciences. We encourage applicants who integrate significant field-based research with laboratory work. Only online applications will be considered.

Applicants should apply online at https://www.jobsatuc.com submitting a letter of application, a curriculum vita, a summary of research interests (2-3 pages) and teaching philosophy (1 page), contact details for three references, and should have a PhD degree by July 31, 2012. Complete applications will be reviewed starting October 30, 2011 and the search will remain open until the position is filled. For additional information please e-mail Professor Craig Dietsch ([dietscc@ucmail.uc.edu] ). The University of Cincinnati is an equal opportunity/affirmative action employer. Women, people of color, the disabled, and veterans are encouraged to apply.

To see the formal on-line job description and job application, go to

https://www.jobsatuc.com/applicants/jsp/shared/frameset/Frameset.jsp?time=1317931052154

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Visiting Assistant Professor of Geology -Department of Earth Sciences Montana State University

Salary  Salary will depend on education and experience. The position is an academic-year appointment available starting January 1, 2012 with renewals annually for up to three years possible.

Benefits  Eligible

Housing  On-campus housing may be available during the first year.

Departmental Information
The Department of Earth Sciences is in the College of Letters and Science and strives to understand the Earth System from its core to the top of the atmosphere including the relationship between humans and the planet. It includes faculty working in human geography and a broad range of geological sub-disciplines. Additional information on faculty research interests and courses may be found on the departmental website at http://www.montana.edu/wwwes/. Laboratory facilities are listed at this site under facilities. The successful candidate will work with 11 tenure-track faculty, a Regents Professor, a GIS instructor, three research scientists, two administrative assistants, 14 Ph.D. students, 40 MSc. students, and 230 undergraduate majors. Founded in 1893 in the scenic Gallatin Valley just north of Yellowstone National Park, Montana State University is a land-grant university with total enrollment of 13,000 students, including about 1,200 graduate students. MSU is recognized as one of 94 U.S. research universities representing the top tier of the Carnegie Foundation rankings. Research funding currently exceeds $100 million annually and has been growing steadily.
Named an All-American City, Bozeman is an attractive, culturally alive city located in the northern Rocky Mountain region. The 70,000 residents of Bozeman and nearby communities enjoy excellent schools, diversified medical facilities, a vibrant cultural and arts scene, and one of the most superb year-round recreational areas in the nation, including world-class ski areas, blue-ribbon trout-fishing streams, and hiking, biking and camping in the Gallatin National Forest. Bozeman is just 90 miles from Yellowstone National Park.

**Duties and Responsibilities**
The Department of Earth Sciences at Montana State University seeks a geologist to teach mineralogy, metamorphic petrology, Earth system science, a course to be discussed with the successful candidate and one credit current topics in Earth Science. Additional course possibilities include and environmental geology or other courses agreed to by the department and the successful candidate. Some undergraduate student advising is expected. Grant writing and research collaborations are encouraged, but this position is not a tenure-track position with a research expectation. The position is a temporary 9-month Academic Year appointment starting 1 January, 2012.

**Required Qualifications** Ph.D. or ABD in geology.

**Preferred Qualifications**
Demonstrated ability to teach large introductory classes in introductory Earth system science, mineralogy and metamorphic petrology courses. Experienced with advising undergraduate students.

**The Successful Candidate Will**
Teach introductory students as well as geology majors and advise undergraduate students in the geology, paleontology, and geohydrology options in the Earth Sciences Department. Grant writing and research collaboration are encouraged.

**Application Procedure** Screening of applications will begin 1 November 2011 and will continue until a suitable candidate is selected. To apply, submit: (1) a brief letter of application that addresses how your training, expertise and experience fulfill the required and preferred qualifications stated above. 2) postal and email address, and telephone number(s) (3) the names and contact information (not letters) of exactly two references; and (4) curriculum vitae. Electronic applications are preferred. Electronic submittals should be sent to earth@montana.edu. Copies of transcripts may be requested for finalist. We encourage applications from members of underrepresented groups. Montana State University is an institution committed to cultural diversity.

**Submit materials to:** Search Committee Chair, c/o Melanie Baldwin
Department of Earth Sciences
Montana State University
P O Box 173480
Bozeman, MT 59717-3480
406-994-3331
earth@montana.edu
Post-doctoral research opportunity - Stable isotope ecology-The Stable Isotopes in Nature Laboratory (SINLAB) at the Canadian Rivers Institute (CRI) and University of New Brunswick (UNB) in Fredericton, New Brunswick, Canada, seeks an innovative and highly motivated individual to conduct multi-disciplinary research beginning in February 2012. The successful candidate will be expected to conduct independent field and lab-oriented research involving the analysis of stable isotopes of carbon, nitrogen, hydrogen, and sulphur to address ecological issues. Principal fields of research by CRI scientists and students include determination of food sources and pathways in river ecosystems, study of animal migration and foraging ecology, tracing contaminant pathways, assessing impacts of exotic species on native biota and biodiversity, examining nutrient flux and transfer in streams, and investigating the fate of marine-derived nutrients in freshwater food webs. The individual will be expected to closely collaborate with other CRI scientists and graduate students at UNB. Preference will be given to individuals whose chief fields of research are freshwater science, particularly fish biology and/or river ecology, but individuals with backgrounds in other sciences that employ stable isotope analysis will also be considered. The successful candidate will be expected to actively publish his or her research in high quality scientific journals. Although the primary focus is on research, the individual will also assist SINLAB staff by providing advice and guidance to clients and graduate students on collection and project design as well as interpretation of stable isotope data for their research programs. The candidate will ensure the analysis of carbon, nitrogen, hydrogen, and sulphur stable isotopes continues to expand with new developments in the field of stable isotope ecology. The individual will bridge the science and technical work required to stay at the leading edge of the field of stable isotope ecology.

Applicants must hold a PhD, preferably in the biological sciences or geochemistry. A solid background in population/community ecology and proven experience with stable isotope (SI) ratio mass spectrometers and other SI data analyses will be considered strong assets. International candidates are encouraged to apply. Salary: $42,000 CAD per annum. Funding for the postdoctoral position is secured for two years, with a strong possibility for a third year of funding. The CRI is an internationally-recognized, interdisciplinary research institute with over 60 graduate students and scientists from diverse academic and government departments interacting to resolve complex issues in aquatic science. The SINLAB was established in 1999 with its primary focus to address academic and applied questions in ecology involving stable isotope analysis as the investigative tool. The current focus of the SINLAB is bulk stable isotope analysis of C, N, H and S via continuous flow IRMS. To accomplish these goals the lab is equipped with Thermo Finnigan Delta XP and Delta Plus mass spectrometers that can be interfaced to either the Carlo Erba NC2500 and Costech 4010 elemental analyzers, or to the Thermo Finnigan TC/EA. Deadline for receipt of application: November 18, 2011. Interested individuals should send a letter of interest, names of three references, and a full CV to: Dr. Rick Cunjak (http://www.unb.ca/research/institutes/cri/people/sciencedirectors/cunjak/index.html), Professor, and Canada Research Chair in River Ecosystem Science Director, Stable Isotopes in Nature Laboratory (http://www.unb.ca/cri/sinlab/)
Immediate openings for two postdoctoral fellows in geophysics at the Carnegie Institution of Washington’s Department of Terrestrial Magnetism.

DTM postdocs conduct independent research, frequently in collaboration with one or more DTM faculty members. Details on DTM research staff, laboratory facilities, and ongoing research can be found at http://www.dtm.ciw.edu under “Research.” Fellowships are normally renewable for a second year.

To apply, send curriculum vitae, a short statement of thesis research, specific ideas for 1-2 potential future research projects, and names and contact information for three references familiar with your work to Dr. Diana Roman (droman@ciw.edu) and Dr. Matt Fouch (mfouch@ciw.edu) by November 1, 2011. Women and minority candidates are especially encouraged to apply. AAE/EOE.

Tenure-track Assistant Professor -Computational Geoscience -University of Illinois

The Department of Geology, part of the School of Earth, Society and the Environment (SESE), invites applications for a tenure-track Assistant Professor in Computational Geoscience. A Ph.D. degree in geophysics, geology, or a closely related field is required. The successful candidate will be expected to establish a prominent, externally funded research program and to provide excellence in teaching at undergraduate and graduate levels.

We seek individuals who use computational methods to analyze and understand Earth processes, broadly defined. Possible specializations include but are not limited to geodynamics, geophysics (including seismology), mineralogy, geochemistry, tectonics, and surface processes. Preference will be given to those individuals able to contribute courses in geophysics to the department curriculum.

The University of Illinois is a world leader in computational science. It is the home of the National Center for Supercomputing Applications and the new Petascale Computing Facility. Excellent opportunities exist for collaboration with other departments of SESE, NCSA, the College of Engineering, the Prairie Research Institute, the Mid-America Earthquake Center, and the Beckman Institute. More information about the department and community can be found at www.geology.illinois.edu.

Full consideration will be given to applications received by November 11, 2011. The anticipated starting date of this appointment is August, 2012. Salary is commensurate with experience.
To ensure full consideration, please create your candidate profile through [https://jobs.illinois.edu](https://jobs.illinois.edu) and upload your application letter, curriculum vitae, summary of research and plans, teaching philosophy and experience, and contact information for three or more references. Questions, requests for additional information or nominations may be addressed to the chair of the search committee, Prof. Craig Lundstrom ([lundstro@illinois.edu](mailto:lundstro@illinois.edu)).

The University of Illinois is an Affirmative Action/Equal Opportunity Employer. The administration, faculty, and staff embrace diversity and are committed to attracting qualified candidates who also embrace and value diversity and inclusivity. ([www.inclusiveillinois.illinois.edu](http://www.inclusiveillinois.illinois.edu))

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**Research Assistant Professor Position - Vermont EPSCoR Program, University of Vermont**

A position for a Research Assistant faculty level with expertise in geochemistry is available at the University of Vermont as part of a new research study of Adaptation to Climate Change in the Lake Champlain Basin. We seek a research assistant professor in the Department of Geology with expertise in redox geochemistry, nutrient cycling, and limnology/oceanography to lead an interdisciplinary team carrying out research on in-lake and to-lake processes that affect eutrophication and algal blooms.

**Qualifications** include a Ph.D. in a relevant discipline. Experience with sensor networks is desirable. Experience or interest in working with researchers with expertise in computational complex systems modeling approaches is desirable. Individuals selected will be expected to interact substantially across the project. Competitive salary and health benefits are available. Start date January 1, 2012, or as soon as possible thereafter. Review of applications will begin on October 1, 2011.

**Questions can be direct to:** epscor@uvm.edu

**To apply:** please send CV, names and contact information for three references, and a cover letter outlining research interests, expertise and availability. To: Ms. Nora Joyal, Vermont EPSCoR Office, 528 Cook Physical Science Building, University of Vermont, Burlington, VT 05405

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**Tenure Track Assistant Professor - Low Temperature Geochemistry - The Department of Geological Sciences at the University of Missouri** invites applications for a tenure track Assistant Professor position beginning August 2012 in the broadly defined area of low-temperature geochemistry. The successful candidate's research will ideally complement and expand upon departmental expertise in modern and ancient earth systems at a wide range of spatial and temporal scales. Potential research areas include aqueous geochemistry, modern climate change informed by geological investigations, Earth history and paleoclimatology, the study of life in extreme and/or early Earth environments, biogeochemistry/geomicrobiology, and carbonate/karst systems.

Completion of the PhD at the time of appointment is required. Applicants should be prepared to prove eligibility to work in the United States. The successful applicant will be expected to teach across the curriculum, i.e., introductory classes, advanced undergraduate courses, and graduate courses in their
area of expertise. The applicant will also be expected to develop an active, externally funded research program and to direct graduate student research at the M.S. and Ph.D. levels. Please apply on-line at: http://hrs.missouri.edu/find-a-job/academic

Application materials should include a letter describing your geologic interests and qualifications for the position, a teaching portfolio, a curriculum vitae, and a list of three references (including contact information) and should be attached in the Cover Letters and Attachments section of the application system. Initial screening of applicants will begin January 4, 2012 and will continue until a suitable candidate is hired. Information about our department is available at: http://geology.missouri.edu. The University of Missouri is an EO/AA/ADA employer.

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The Department of Geosciences at Wellesley College invites applications for a tenure-track faculty position at the rank of assistant professor beginning August 2012. We seek an exceptional scientist, broadly trained in surface processes, who can integrate inquiry-based approaches to teaching undergraduates in classroom, field and laboratory settings, and maintain a funded research program in a liberal arts environment.

Geosciences faculty at Wellesley teach and develop courses at all levels of curriculum and integrate undergraduates into their research programs. We expect our candidates to have teaching experience (the design and implementation of a lecture/lab course for undergraduates), experience advising undergraduate research projects, and research experiences beyond PhD training.

A complete application package will include the following: 1) a curriculum vita, 2) a statement of both research interests and approach to incorporating undergraduate students in their research program, 3) one or two publications that illustrate the range and depth of scholarly activity, 4) a statement of approach to teaching along with documentation of prior success in the classroom and how their course offerings will complement our existing curriculum, 5) academic transcripts, and 6) three letters of recommendation. (The online application will request names/email address so that recommenders or dossier services may submit the letters directly.). All materials should be submitted through the online application system at https://career.wellesley.edu. If circumstances make it impossible to submit materials online, please email working@wellesley.edu. Dan Brabander, Chair, Geosciences Department will head this search. Applications will be accepted until October 20, 2011.

Wellesley College is an Affirmative Action/Equal Opportunity Employer, and we are committed to increasing the diversity of the college community and the curriculum. Candidates who believe they can contribute to that goal are encouraged to apply.

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Post-doctoral Research Associate Program in Geological Sciences, Brown University

The Department of Geological Sciences at Brown University invites applications for its postdoctoral research associate program. The Department seeks outstanding candidates in the field of Earth and planetary sciences, with preference given to applicants whose research addresses key questions in Earth composition, structure, dynamics, deformation and material properties. Postdoctoral associates are encouraged to pursue their own research interests, but close interaction with Brown Geological
Sciences faculty is expected. Additional program information and a description of research and facilities in the Department can be found at http://brown.edu/Departments/Geology.

These competitive, institutionally-supported postdoctoral positions are awarded for a one-year period, with anticipated extension for a second year. The initial annual stipend is $53,500 and a research/travel fund of $5,000 is provided in each year.

Applications and reference letters should be emailed (in PDF format) to geopostdocsearch@brown.edu no later than January 9, 2012. Applications should include a brief proposal for the research to be carried out at Brown (with identification of a Brown faculty sponsor), a statement of research accomplishments, and a curriculum vitae. Applicants should also arrange for three letters of reference to be emailed separately. Decisions will be made in Spring, 2012, for a position start date as early as July 1, 2012. Applicants should have a recent Ph.D. or should be 2012 degree candidates. Completion of the Ph.D. is required by the time of the appointment.

Brown University is an equal opportunity/affirmative action employer. We encourage applications from minority and women scientists.

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KENT STATE UNIVERSITY - ASSISTANT/ASSOCIATE PROFESSOR IN ENVIRONMENTAL MINERALOGY

The Department of Geology at Kent State University seeks to hire an Environmental Mineralogist at the tenure-track Assistant or Associate Professor level for the Fall semester, 2012. The successful candidate must possess the Ph.D., have a strong background in the geological sciences, and be able to interface well with other faculty working in a variety of related specialties. Specific research interests are open and may include any of the broad range of how mineral properties and surfaces and their growth and dissolution processes interact with the environment from the atomic scale to the global scale. Examples of research areas may include clay mineralogy, soil chemistry, geomicrobiology, chemistry of water-sediment or water-rock interactions, acid mine drainage, chemical weathering, and environmental nano- and microparticles and their interactions with metals or microbes. Responsibilities will include teaching undergraduate and graduate courses in earth materials and environmental mineral processes; advising M.S. and Ph.D. candidates; developing a strong, externally funded research program; and instruction of an introductory geology course including Environmental Geology or Physical Geology.

The Department has 14 full-time faculty members, ca. 100 undergraduates and 30 graduate students, and is well-equipped for research in hydrology, hydrogeology, oceanography, limnology, aqueous geochemistry, sedimentary processes, and engineering geology. Current Faculty in these areas are presently involved in research in oceanography, limnology, paleolimnology, wetlands and surface water-groundwater interactions, climate change, landform development and landsliding, and engineering geology.

The department supports both applied and basic geologic research. Equipment for analytical work in geochemistry includes XRD, graphite-furnace-AA and ICP spectrometers, and a Dionex Ion Chromatograph. Additionally, there are laboratories for wet chemistry, hydrogeology, and engineering geology, an SEM unit with EDAX, and an XRF. There are excellent opportunities for cooperative research and teaching within the Department and opportunities to interact with faculty members in
Biology, Chemistry, and Chemical Physics. Review of applications will begin on November 15, 2011 and continue until the position is filled. For more information see http://www.kent.edu/geology. Applicants should send their curriculum vitae, statement of research and teaching interests, and contact information of three references to Dr. Daniel Holm, Chair, Department of Geology, Kent State University, Kent OH 44242. dholm@kent.edu; Fax 330-672-7949. Kent State University is an Affirmative Action/Equal Opportunity Employer and encourages applications from candidates who would enhance the diversity of the University's faculty.

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GEORGIA SOUTHERN UNIVERSITY -University System of Georgia-Assistant Professor of Geology—Search #64640
Allen E. Paulson College of Science and Technology
Department of Geology and Geography
The Department of Geology and Geography in the Allen E. Paulson College of Science and Technology invites nominations and applications for the position of Assistant Professor of Geology. Georgia Southern University (www.georgiasouthern.edu), a member institution of the University System of Georgia and a Carnegie Doctoral/Research University, is one of Georgia’s premier universities. A residential university serving nearly 20,000 students in fall 2010, Georgia Southern is recognized for providing all of the benefits of a major university with the feeling of a much smaller college. Founded in 1906, the University offers more than 100 campus-based and online degree programs at the baccalaureate, master’s, and doctoral levels through eight colleges. In 2011, Georgia Southern was named the fourth most popular university in the country by U.S. News & World Report’s “Top 20 Most Popular Universities.” The nearly 700-acre park-like campus is located in Statesboro, a classic Main Street community near historic Savannah and Hilton Head Island.

Within this setting, the Department offers undergraduate degree programs in both geography and geology. In addition, the minor in GIS attracts students from a range of disciplines.

Position Description. Reporting to the Department Chair, the Assistant Professor of Geology position requires teaching, research, and service as well as a terminal degree. The successful candidate will have expertise in low-temperature or environmental geochemistry and may come from either specialty. The candidate will be selected based on their fit with the Department’s needs. The individual selected will teach advanced courses appropriate to their discipline, and will share responsibility for courses in environmental geology, physical geology, and associated laboratories. The position is a 9-month tenure-track appointment, and the salary is competitive and commensurate with qualifications and experience. Required Qualifications:

• A PhD in geology or a closely related discipline must be completed by the position starting date of August 1, 2012.
• Research specialty in low-temperature or environmental geochemistry.

Preferred Qualifications:
Other desirable qualifications include research interests in the Atlantic Coastal Plain, geoscience education, or GIS/remote sensing. Prior undergraduate teaching experience is preferred.

Screening of applications begins November 21, 2011 and continues until the position is filled. The preferred start date is August 1, 2012. A complete application consists of a letter addressing the qualifications cited above; a statement of research interests; a statement of teaching philosophy; a curriculum vitae; and the names, addresses, telephone numbers, and email addresses of at least three professional references. Other documentation may be requested. Only complete applications will be
considered. Finalists will be required to submit to a background investigation. Applications and
nominations should be sent to:

Dr. Charles H. Trupe, Search Chair, Search 64640
Department of Geology and Geography
Georgia Southern University
P. O. Box 8149
Statesboro GA 30460
Electronic mail: CHTrupe@GeorgiaSouthern.edu
Telephone: 912-478-0337

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COSMOCHEMISTRY/GEOCHEMISTRY POSTDOCTORAL POSITION AVAILABLE
The Origins Laboratory of the Department of the Geophysical Sciences and Enrico Fermi Institute at the
University of Chicago (http://geosci.uchicago.edu/~dauphas/OLwebsite/OLFrameset1.htm) seeks applicants
for a postdoctoral researcher position in isotope geochemistry-cosmochemistry. Although different
backgrounds will be considered, experience in clean laboratory procedures and multicollector inductively
coupled plasma mass spectrometry (MC-ICPMS) techniques is especially desirable. The main themes that are
being developed are (i) mass-dependent isotope variations for tracing geo-bio cycles and igneous processes, (ii)
stable isotope anomalies for characterizing the heterogeneity of the nebula and identifying new presolar phases,
and (iii) radiogenic isotopes for constraining early solar system chronology. Completion of the Ph.D. is
required. Initial appointment is for one year, renewable up to 2 times contingent upon good progress.
Applications must be received by November 1, 2011; applications received after this date may be considered if
the position is not filled. A resume and the names of three references should be sent to Nicolas Dauphas
(dauphas@uchicago.edu). The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

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The Keck Science Department, which houses the biology, chemistry, and physics faculty for Claremont
McKenna, Pitzer, and Scripps Colleges (three of the five undergraduate Claremont Colleges), seeks a
Physical Geographer who is committed to excellence in teaching and who will develop a vibrant research
program that fully engages undergraduate students. The appointment will be made at the Assistant Professor
level to begin July 2012. Areas of interest include but are not limited to natural hazards, global land-use,
geomorphology/ climate interactions, and remote sensing. The new hire will be an integral participant in the
Mellon Foundation-funded Claremont Colleges Intercollegiate Environmental Analysis Program
(http://ea.pomona.edu/), which also includes faculty from Harvey Mudd and Pomona Colleges. Many Keck
Science faculty actively participate in collaborative research projects with research groups at nearby colleges
and universities, and such collaborations are welcomed for this position. Teaching responsibilities include
participation in the introductory Environmental Science sequence, a course in natural resource geography, and
an upper division course in the candidate's area of specialty. A Ph.D. and a record of scholarly publication are
required. Postdoctoral experience is preferred.

Please apply online at https://webapps.cmc.edu/kecksci/faculty/ by uploading a cover letter, a curriculum vitae,
a description of your proposed research, a statement of your proposed approach to teaching science in a liberal
arts setting, and the names and e-mail addresses of three references. Inquiries regarding the position may be e-
mailed to Professor Donald McFarlane at dmcfarlane@kecksci.claremont.edu. Additional information about the
department may be found at www.kecksci.claremont.edu. Review of applications will begin October 17th,
2011, and the position will remain open until filled.

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The Keck Science Department of Claremont McKenna, Pitzer, and Scripps Colleges is an equal opportunity employer. In a continuing effort to enrich its academic environment and provide equal educational and employment opportunities, the department actively encourage applications from women and members of historically under-represented social groups in higher education.

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Faculty Positions in Sedimentary Geology, Geological Sciences, Indiana University, Bloomington

The Department of Geological Sciences invites applications for one or more tenure-track/tenured faculty positions. We seek a candidate whose research in sedimentary geology complements one or more of our current strengths in sedimentology, geobiology, geochemistry, and tectonics to fill the Robert R. Shrock Endowed Position in Sedimentary Geology at the Assistant or Associate level. Qualified candidates must have a PhD in a field related to sedimentary geology and an established record of excellence in research and teaching at the graduate and undergraduate level. Readiness to teach courses in depositional environments, petroleum geology, or structural geology is an advantage. In the case of an exceptional pool of candidates, a second hire into the Boyce Chair, also with access to endowed research funds, may be possible. Review of applications will begin November 15, 2011 and continue until the position is filled. Indiana University is an equal opportunity/affirmative action employer, and encourages applications from women and minority candidates. Further details are available at http://geology.indiana.edu/department/sedsearch.html.

Please submit a letter of application, a current vita, and the names and addresses of three referees. All enquiries and applications should be addressed to:

Prof. David Polly,
Shrock Search Chair,
Department of Geological Sciences,
Indiana University,
Bloomington, IN 47405-1403

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Tenure-Track Faculty Position in Sedimentary Geology/Low-Temperature Geochemistry - Iowa State University

The Department of Geological and Atmospheric Sciences at Iowa State University invites applications for a tenure-track faculty position at the assistant professor level to begin August 2012. The position will be in one of two broad areas: sedimentary geology or low-temperature geochemistry, with particular emphasis placed on research relevant to paleoclimatology, environmental geochemistry, or contaminant hydrogeology. An essential requirement is the potential of applicants to establish a successful, externally funded research program. Ideally that program would complement existing strengths in the department, including climate modeling, paleoclimatology, glaciology, hydrogeology, geophysics, economic geology, tectonics, and geoscience education. We also encourage interactions with researchers and faculty in other units on campus, such as Agricultural and Biosystems Engineering; Agronomy; Chemistry; Civil, Construction and Environmental Engineering; Ecology and Evolutionary Biology; Natural Resources Ecology and Management; the Iowa Water Center; the Leopold Center for Sustainable Agriculture; and the National Laboratory for Agriculture and the Environment. A commitment to excellence in teaching at the undergraduate and graduate levels is also essential. Information about the Department appears at: http://www.ge-at.iastate.edu/.

Candidates must hold a Ph.D. by the time of appointment. All applications must be submitted electronically at www.iastatejobs.com (search vacancy ID# 110650). Please be prepared to enter or attach a letter of application.
including concise teaching and research statements, curriculum vitae, and the names, addresses, e-mail addresses, and phone and fax numbers of at least three references.

The positions will remain open until filled. Full consideration will be given to those applications received by November 13, 2011. We encourage applications from minorities, women, veterans, and persons with disabilities. Iowa State University is an equal opportunity/affirmative action employer.

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Natural Resource Technology, Inc. (NRT) is seeking an entry-level candidate (0 to 2 years) with a BS/MS degree in environmental engineering, hydrogeology, or environmental science. Our projects include investigation, remediation, and construction oversight at soil, groundwater, and sediment contamination sites; compliance and due diligence assessments; and environmental monitoring for clients such as power companies, industrial corporations, law firms, government, and industry research associations throughout the US. The successful candidate for this position will initially engage in collection and analysis of field data, construction/remediation oversight, and documentation. With experience, this candidate will assume responsibilities for proposals, project planning, and preparation of reports communicating NRT’s observations, evaluations, and conclusions. We routinely work in project teams, comprised of internal and external members, because our projects often transcend multiple engineering and scientific disciplines. This teaming structure requires strong oral and written communication skills as well as the agility to transition from extended field assignments to the office environment. An ideal candidate works well independently and within a team environment. Position: Environmental Engineer, Hydrogeologist, or Environmental Scientist

Position Location: Pewaukee, Wisconsin

Position Start: Fall 2011 or Winter 2012

Position Classification: Full-time Salary

Essential Position Abilities

• Appropriately apply scientific and engineering principles and concepts to area of specialization; able to draw solutions from education and formal training. Experience an asset, but not required.

• Ability to conduct and direct measurements and sample collection including documentation of field tasks, data tabulation, and report preparation.

• Knowledge of federal, state and local environmental regulations and programs is an asset.

• Ability to participate in field assignments requiring travel through the US, primarily in the Midwest.

Basic Qualifications

• BS/MS environmental engineering, hydrogeology, or environmental science related fields.

• 0 to 2 years environmental consulting experience. Wisconsin and/or Illinois regulatory experience a plus.

• OSHA HAZWOPER 40-hour certification and current 8-hour refresher training an asset, not required.

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The Institute of Environmental Science and Technology (ICTA) at the Universitat Autònoma de Barcelona (UAB) invites applications for 1 Fellowship in Marine Palaeoclimatology of 16 Months for an Experienced Researcher (ER) at the Post-Doctoral Level

The fellowship is sponsored by the 7th Framework Programme of the European Community as part of the Marie Curie Initial Training Network “GATEWAYS”.

The ER fellowship is directed towards reconstructing the Late Pleistocene ocean circulation of the Agulhas Current regime off southern Africa and its relation to the climate variability in the Southwest Indian Ocean and beyond. We seek a candidate with expertise in either of the fields of stable isotopes (δ18O, δ13C) and trace element geochemistry (Mg/Ca, Cd/Ca) or radiogenic isotopes. For further information about the GATEWAYS project visit www.gateways-itn.eu
Eligibility. EC Marie Curie ITN recruitment and mobility regulations apply. Eligible for the ER fellowship at the ICTA/UAB are:
• Spanish nationals who have legally resided and had their main activity outside Spain and the EU (i.e., in a non-associated third country) for at least three of the last four years immediately prior to the appointment;
• Non-Spanish nationals who have not resided or carried out their main activity in Spain for more than 12 months in the 3 years immediately prior to the appointment (short stays such as holidays are not taken into account);
• Fellows who at the time of their appointment are within the first 5 years (full time equivalent) of their career, starting from the date when the degree was obtained that was required to embark on their doctoral programme.

Application documents. Applicants who fulfil the above criteria submit by email a letter of intent stating their interest in the GATEWAYS project; their Curriculum Vitae showing, amongst others, their University education background; the names, addresses, email and telephone numbers of two referees who the search committee can contact for letters of reference.

Contact. GATEWAYS Project Office, Universitat Autònoma de Barcelona, Institut de Ciencia i Tecnologia Ambientals, Cerdanyola del Vallès, Spain
Email: pr.gateways.itn@uab.cat
Deadline for applications is the 25th of October 2011

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