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 21, 2011:

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

**Weeks Lecture**

**Dr. Ken Williford**

University of Wisconsin

**Friday, Oct 21st, 2011, 3:30 PM, Weeks Hall – Room AB20**

"Insights into Precambrian biogeochemistry from in situ carbon and sulfur isotope analysis".
The stable isotopes of sedimentary carbon and sulfur are powerful indicators of the emergence and variable expression of microbial metabolisms, and of life itself, in the geologic record. At the scale of individual microbial cells and sedimentary grains (10^{-6} to 10^{-4} m), carbon and sulfur isotopes record information about the degree to which profound changes in the chemistry of early Earth surface environments (e.g. atmospheric oxygenation) were mediated by the microbial biosphere, metabolism and biosynthesis in morphologically ambiguous fossil microbes, and bio- and syngenicity of putative microfossils and amorphous organic matter from early Earth and extraterrestrial samples. Recent developments in secondary ion mass spectrometry (SIMS) enable precise and accurate measurement of carbon and sulfur isotopes at these scales, and the application of these techniques to pyrite deposited during the Great Oxidation Event (~2.4 Ga), to Archean kerogen, and to Proterozoic fossil microbes will be discussed.

Friday, Oct 28, 2011:
Huifang Xu, University of Wisconsin, Department of Geoscience

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

JOB OPENINGS:

• The Department of Environmental Studies at the University of North Carolina Asheville invites applications for a full-time, tenure track position in field-based structural geology with an environmental focus.
• USGS seeks candidates for a full-time permanent research position.
• The Institute of Geophysics and Tectonics of the University of Leeds - Research Fellow in Seismology
• WASHINGTON UNIVERSITY IN SAINT LOUIS - STEVE FOSSETT POSTDOCTORAL FELLOWSHIP IN EARTH AND PLANETARY SCIENCE
  Position in stable isotope geochemistry is opened at the Earth and Atmospheric sciences department of the Universite du Quebec a Montreal.
• Postdoctoral Research Associate in Neutron Scattering: Structure and Dynamics of Fluids at Nanoscale Interfaces -The Ohio State University
• 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

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

**JOB OPENINGS:**

The Department of Environmental Studies at the University of North Carolina Asheville (www.unca.edu/envr_studies) invites applications for a full-time, tenure track position in field-based structural geology with an environmental focus. The position begins at the assistant professor level in August 2012. Responsibilities include teaching structural geology, environmental geology, physical geology, and other courses complementary to the program, such as Introduction to Environmental Science. This faculty member will also contribute to the university-wide Integrative Liberal Studies program (our interdisciplinary liberal arts curriculum required of all undergraduates, including introductory (freshman) colloquia, writing and quantitative intensives, and other interdisciplinary courses), will advise undergraduates, and will develop an active research program that includes opportunities for undergraduate research. The successful applicant will have a strong commitment to excellence in undergraduate teaching and an interest in infusing the undergraduate experience with the skills, aptitudes, and values of the interdisciplinary liberal arts and sciences.

As UNC Asheville is committed to promotion of diversity, the candidate should facilitate a work environment that encourages knowledge of, respect for, and ability to engage with those of other cultures or backgrounds. The candidate should also possess knowledge and understanding of multicultural and diversity issues, and their potential applications to pedagogy, programming, and service activity. Applicants are expected to have a doctoral degree at the time of appointment. Interested candidates should submit a cover letter, curriculum vitae, statement of teaching philosophy/teaching interests, statement of research interests, three letters of reference, and teaching evaluations, if available, to: Dr. William Miller, Department of Environmental Studies, CPO 2330, University of North Carolina Asheville, Asheville, North Carolina 28804-8511. The search committee will begin review of applications on 15 November, 2011. The position is open until filled.

UNC Asheville is an Equal Opportunity/Affirmative Action Employer. E-mail inquiries may be directed to Debra Robbins, Department Administrator, drobbins@unca.edu.

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USGS seeks candidates for a full-time permanent research position.

U.S. citizenship is required.

The U.S. Geological Survey (http://water.usgs.gov/nrp/) seeks candidates for a full-time permanent research position in microbial ecology at the GS-11, GS-12 or GS-13 grades in Reston, Virginia. This is an interdisciplinary position and may be filled under any of several job series: Geologist / Microbiologist / Microbial Ecologist / Soil Scientist. Grade and salary (in the range of $60,000 to $100,000) will be based on education and experience. Prior to starting employment with the USGS, a successful applicant will have demonstrated educational and research accomplishments, through the obtainment of a Ph.D or equivalent doctoral degree, or through equivalent experience and knowledge, in a field related to microbial ecology or environmental
microbiology. Environments of interest include surface water, ground water and soils, in disturbed and pristine terrains. The selected individual will formulate and execute laboratory and field studies in order to determine the identity and characteristics of microorganisms involved in microbial transformations, and to measure reaction rates and pathways of microbial processes in these environments. By characterizing the microbial diversity and functional capability of microbial communities, the ultimate goal of the research is to establish an understanding of microbial processes that impact water quality, ecological habitats, and other natural resources. A full range of observational and experimental techniques in both the laboratory and the field is applied to the research problems. Tools and techniques used include molecular methods, such as qPCR and DNA fingerprinting, microarray technology, and **stable isotope probing techniques**.

The on-line vacancy announcement contains additional information regarding these and other qualifications requirements. The opening date of this vacancy announcement is October 16, 2011. Applications (resumes and questionnaire responses) must be received online BEFORE midnight Eastern Time on the closing date of the announcement (December 1, 2011). It is important that candidates view the Vacancy Announcement in its entirety to be sure that all required documents are submitted. Incomplete application packages cannot be considered.

For further information, please contact: Edward Landa, 703-648-5898, erlanda@usgs.gov, Harry Jenter, 703-648-5916, hjenter@usgs.gov, or Pierre Glynn, 703-648-5823, pglynn@usgs.gov in the Branch of Regional Research, or Aleecia Leyba, 303-236-9573, aleyba@usgs.gov, Human Resources Specialist.

After the opening of the vacancy on or about Oct. 16, 2011, the vacancy announcements should be found on the Office of Personnel Management's USAJOBS website at [www.usajobs.opm.gov](http://www.usajobs.opm.gov). {Please note: The website will be down during the period October 1-12, 2011}.

The USGS is an Equal Opportunity Employer.

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**The Institute of Geophysics and Tectonics of the University of Leeds - Research Fellow in Seismology - Fixed term for 2.5 years**

The Institute of Geophysics and Tectonics of the University of Leeds has a strong international research profile in the geophysical sciences, with particular strengths in Seismology and Tectonophysics. We are seeking a Research Fellow who will work on a multi-disciplinary project (“Deep crustal structure of the North Anatolian Fault Zone and the earthquake cycle”) funded by the UK Natural Environment Research Council, aimed at determining the crustal structure of the North Anatolian Fault Zone in Turkey and its influence on the earthquake cycle of this region.

You will have a PhD in seismology or a closely related area, excellent communication skills, ability to work as part of a team, and familiarity with computerised techniques used in processing broad-band seismological data. You will participate in all stages of a major seismic experiment in Turkey and the management of a large seismic database. You will be expected to publish research papers and to present your research at national and international meetings.

You should be able to commence 1 Feb 2012 or as soon as practicable thereafter.
WASHINGTON UNIVERSITY IN SAINT LOUIS - STEVE FOSSETT POSTDOCTORAL FELLOWSHIP IN EARTH AND PLANETARY SCIENCE

The Department of Earth and Planetary Sciences at Washington University in Saint Louis invites applications for their new Steve Fossett Postdoctoral Fellowship. The Department seeks outstanding candidates who will strengthen and complement existing areas of study, including both terrestrial and planetary geology, geochemistry, and geophysics. Candidates will be encouraged to collaborate directly with Faculty and students within the Department, and will be invited to lead a seminar in their area of expertise. Ideal candidates will have trans-disciplinary interests, and will interact scientifically with a broad spectrum of the Department's members. This competitive postdoc is awarded for a one-year period, which may be extended to a second year. The annual salary is $55,000 with additional research funds of $5,000 per year. Applicants should contact a potential Faculty sponsor to discuss additional arrangements.

Please send resume, statement of research interests, and names and contact information for at least three references to:

Fossett Fellowship Committee
Department of Earth and Planetary Sciences Washington University
Campus Box 1169 One Brookings Drive St. Louis, MO 63130 or via e-mail:
Fossett_Fellowship@levee.wustl.edu

Applications will be considered until the position is filled, but priority will be given to those received before January 15, 2012. Washington University is an equal opportunity/affirmative action employer.

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AU DÉPARTEMENT DES SCIENCES DE LA TERRE ET DE L'ATMOSPHÈRE

POSTE DE PROFESSEUR -GÉOCHIMISTE DES ISOTOPES STABLES

Position in stable isotope geochemistry is opened at the Earth and Atmospheric sciences department of the Université du Quebec a Montreal. The position description is only available in French (sorry). The deadline is approaching soon.

L'UQAM recherche des candidates et candidats qualifiés afin de renouveler son corps professoral et assurer un développement de qualité dans tous les domaines d'activités.

SOMMAIRE DE LA FONCTION :

- Enseignement aux trois cycles universitaires
- Recherche dans le domaine
- Services à la collectivité

EXIGENCES :

- Doctorat spécialisé dans le domaine des isotopes stables légers

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Être en mesure de développer un programme de recherche en géochimie des isotopes stables
Recherche et publications dans les domaines comme l'environnement, l'hydrogéologie, la paléoclimatologie ou la géologie marine
Démontrer un intérêt pour l'enseignement aux trois cycles universitaires
Maîtrise du français parlé et écrit

DATE D'ENTRÉE EN FONCTION: 1er JUIN 2012
TRAITEMENT : Selon la convention collective UQAM-SPUQ
L'Université du Québec à Montréal souscrit à un programme d'accès à l'égalité en emploi. De ce fait, elle invite les femmes, les autochtones, les membres des minorités visibles, des minorités ethniques et les personnes en situation de handicap qui répondent aux exigences du poste à soumettre leur candidature. Nous encourageons les personnes qui s'identifient à l'un ou l'autre de ces groupes à remplir le Questionnaire d'identification à la présente adresse et à le joindre à leur dossier de candidature : www.rhu.uqam.ca/visiteurs/egalite. La priorité sera donnée aux Canadiennes, Canadiens et aux résidentes, résidents permanents. Les personnes intéressées sont priées de faire parvenir un curriculum vitae en français, détaillé, daté et signé, incluant trois lettres de recommandation. Le dossier doit être adressé à :
Monsieur Enrico Torlaschi, directeur
Département des sciences de la Terre et de l'atmosphère
et déposé AVANT LE 31 OCTOBRE 2011, 17 h à :
Madame Sandrine Solignac
Coordonnatrice du GEOTOP-UQAM
solignac.sandrine@uqam.ca
GEOTOP - Université du Québec à Montréal
201, Avenue Président-Kennedy
7e étage, local PK-7150
Montréal (Québec) H2X 3Y7

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Postdoctoral Research Associate in Neutron Scattering: Structure and Dynamics of Fluids at Nanoscale Interfaces - The Ohio State University - School of Earth Sciences

Project Description:
The Subsurface Energy Materials Characterization and Analysis Laboratory - SEMCAL (Dr. David Cole, co-director; http://www.geology.ohio-state.edu/faculty_bios.php?id=171 ), in the School of Earth Sciences invites applications for a Postdoctoral Research Associate position in neutron scattering for a 2 year appointment with the possibility of extension to interrogate the interaction of fluids with mineral substrates (as planar surfaces or nanoporous media). This position will be part of OSU's Sloan Foundation funded Deep Carbon Observatory project targeting "Reduced Carbon in Earth's Crust and Mantle". Studies will focus on fundamental and applied aspects of the interaction of C-O-H fluids (aqueous; non-aqueous) with solids (natural; engineered) across a wide range of length and time scales with the goal to reach a predictive level of understanding of fluid-mediated processes in complex earth and technological systems. Researchers will be able to take advantage of the collaborative interaction established between OSU and neutron scattering researchers in the Geochemistry and Interfacial Sciences Group of the Chemistry Division at Oak Ridge National Laboratory. Emphasis is placed on static and dynamic neutron scattering from ambient conditions to elevated temperatures and pressures to understand the nano-scale properties of free and confined fluid-solid interfaces.

Qualifications:
Candidate must have a Ph.D. in Chemistry, Physics, Materials Sciences, Geochemistry or closely related field. The candidate must have demonstrated experimental skills and experience in one or preferably several neutron scattering techniques (SANS, NR, QENS, NSE, diffraction). Programming skills are desirable. The candidate
should be able to work independently and participate creatively in refining project directions. The candidate must have good oral and written communication skills, and be able to interact effectively with a broad range of colleagues. Applicants cannot have received their Ph.D. more than six years prior to the date of application appointment or must complete all degree requirements before starting their appointment.

Contact:
Applicants should send a CV, description of current research activities and interests, and contact information for at least two references to: Prof. David R. Cole, School of Earth Sciences, The Ohio State University, Columbus, OH 432210-1398 (cole.618@osu.edu). A formal job posting will soon appear in the HR section of the Ohio State University web site. For more information about the School of Earth Sciences, visit our web site at http://www.geology.ohio-state.edu/.

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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, paleoclimatology, 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 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.

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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

For information, contact: Steve Custer, Head, Earth Sciences: scuster@montana.edu; 406 994 6909

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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

Canadian Rivers Institute (www.unb.ca/cri/)

Department of Biology, and Faculty of Forestry and Environmental Management

University of New Brunswick

Fredericton, New Brunswick, CANADA. E3B 5A3.

Email: cunjak@unb.ca

Tel: 506-452-6204

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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.

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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.

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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 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 (lundstrom@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)

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