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 – Spring 2012*

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Faculty Sponsor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Friday, Jan 27, 2012:</strong></td>
<td>Department Welcome Back</td>
<td></td>
</tr>
<tr>
<td><strong>Friday, Feb 03, 2012:</strong></td>
<td>Peter Wilf, Penn State (Host: Geary/Peters)</td>
<td></td>
</tr>
<tr>
<td><strong>Friday, Feb 10, 2012:</strong></td>
<td>Greg Waite, Michigan Tech (Host: DeMets)</td>
<td></td>
</tr>
<tr>
<td><strong>Friday, Feb 17, 2012:</strong></td>
<td>Margaret Fraiser, UW-Milwaukee (Host: Peters)</td>
<td></td>
</tr>
<tr>
<td><strong>Friday, Feb 24, 2012:</strong></td>
<td>Emile Okal, Northwestern University (Host: Tobin)</td>
<td></td>
</tr>
<tr>
<td><strong>Friday, Mar 9, 2012:</strong></td>
<td>Aradhna Tripati, UCLA (Host: Carlson)</td>
<td></td>
</tr>
<tr>
<td><strong>Friday, Mar 16, 2012:</strong></td>
<td>Matt Hurtgen, Northwestern (Host: Peters)</td>
<td></td>
</tr>
</tbody>
</table>
Friday, Mar 25, 2012:
Marin Clark, Univ of Michigan (Host: Goodwin)

Friday, Apr 13, 2012:
BOV

Friday, Apr 20, 2012:
Steve Holbrook, Univ of Wyoming (Host: Tobin)

Friday, Apr 27, 2012:
Tim Masterlark, U. Alabama (Host: Feigl)

Friday, May 4, 2012:
Carl Jacobson, IOWA State (Host: Goodwin)

**CMG meeting, Edinburgh, 18-22 June, 2012**

The next Mathematical Geophysics meeting will take place during 18-22 June 2012 in Edinburgh. The meeting venue will be the National Museum of Scotland, Edinburgh. The overall theme of the meeting will be "Confronting models with data".

The scientific program will have the following seven sessions: 1. Mathematics of planet Earth. 2. Earth observation. 3. Earth system dynamics. 4. Crustal dynamics. 5. Mechanisms of Atmospheric-climate variability and change. 6. Ocean processes: from small scale to global circulation. 7. Rationalising models with observations. 8. Solving geophysical problems.

Several field trips are also planned.

**Two PhD projects on early Precambrian paleobiology at the University of New South Wales, Sydney, Australia.**
1) Relationship of Earth’s oldest life to hydrothermal vent systems; the 3.5 billion-year old North Pole Dome, Western Australia. The North Pole region hosts the oldest fossil life on Earth, as stromatolites in carbonates deposited within a hydrothermally active volcanic caldera. This project aims to establish the relationships between stromatolites and hydrothermal vent systems through detailed field mapping, petrography, geochemistry, and isotope analysis. With Prof. John Valley, U. Wisconsin, Madison.

2) Stratigraphy and paleobiology of stromatolitic carbonate reefs; c. 2.3 Ga Turee Creek Group, Western Australia. This project involves a detailed field mapping study of a series of stromatolitic and deepwater carbonates deposited across the transition from the warm, reducing conditions of the late Archean to the cooler, more oxidized conditions of the Paleoproterozoic. This project will investigate changes in the biosphere across the most fundamental change in Earth history. With Harvard University, UCLA, and IPG (Paris).

Contact: Prof. Martin Van Kranendonk -vmartin@y7mail.com

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JOB OPENINGS:

- UCLA -Department of Earth and Space Sciences -Postdoctoral Scholarship
- Assistant Professor – High Latitude Studies - Oregon State University
- The British Geological Survey has just advertised Stable Isotope Research Geochemist to work in their lab near Nottingham
- The Department of Geology at the University of Otago, New Zealand seeks applicants from any field of geosciences for a confirmation-path position as Lecturer in Geology (US equivalent - tenure track, assistant professor).
- Vacancy at the British Geological Survey - Volcanologist
- The Royal Museum for Central Africa (Belgium) has open a postdoc research position in InSAR volcanology and geodynamics
- The Department of Earth, Atmospheric and Planetary Sciences at the Massachusetts Institute of Technology (MIT) invites applications for the W. O. Crosby Postdoctoral Fellowship
- Saudi Arameo's Exploration and Producing Advanced Research Center (EXPEC ARC) seeks a scientist to manage and grow their stable isotope geochemistry laboratory
- The Department of Geological Sciences at the University of Saskatchewan, is accepting applications for a chair at the Assistant or Associate Professor level in the area of environmental geochemistry
- Victoria University of Wellington seeking outstanding candidates who will complement and enhance our existing strengths in sedimentology, geophysics, geochemistry, volcanology, structural geology, and petrology,
- UC Berkeley Seismological Laboratory: Six new research and technical positions
- Postdoctoral Fellowships - Department of Terrestrial Magnetism
- Post-doctoral Research Associate Program in Geological Sciences, Brown University
Fulltime, 9 month, Assistant/Associate Professor, Department of Geosciences, College of Earth, Ocean, and Atmospheric Sciences at Oregon State University in Corvallis, Oregon

JOB OPENINGS:

UCLA -Department of Earth and Space Sciences -Postdoctoral Scholarship

Applications are invited for a postdoctoral scholarship for study of the solubility of minerals in high-pressure fluids. The project is aimed at better understanding the role of aqueous fluids in Earth's deep volatile cycles, and mass transfer in the mantle and subduction zones. The work will be conducted under the direction of Craig Manning as part of a projects funded by the Deep Carbon Observatory, the University of California, and the National Science Foundation. The position is for two years. Experience using high-pressure experimental apparatus (piston cylinder, multi anvil, diamond cell) is desirable but not required. A CV, description of research interest, and contact information for at least two references should be sent to Craig Manning (manning@ess.ucla.edu). Applications will be accepted until the position is filled. The University of California, Los Angeles is an equal opportunity employer.

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Assistant Professor – High Latitude Studies - Oregon State University

As part of the Provost’s Faculty Investment Initiative, the College of Earth, Ocean, and Atmospheric Sciences (CEOAS) at Oregon State University invites applications for up to three full-time (1.0 FTE), 12-month, tenure-track Assistant Professor positions with focus on high latitude studies.

We seek scholars who will develop and maintain a vigorous, externally funded research program. Areas of interest include, but are not limited to, ocean-ice-atmosphere interactions, permafrost/frozen ground processes and land-atmosphere exchange, biogeochemical cycles, trophic ecology, climate history from sediments, sea-ice processes, glaciology, and the use of remote sensing methods for high-latitude research. The successful candidates will design and teach courses specific to the fields relevant to high latitude studies and will participate in the CEOAS undergraduate and graduate teaching program. Advising and mentoring graduate students and post-doctoral fellows are also expected from the candidates.

The College of Earth, Ocean, and Atmospheric Sciences is internationally recognized as a leader in the study of the Earth as an integrated system. It operates numerous state-of-the art laboratories and two oceanographic research vessels, the 185-foot ocean-going Wecoma and the Elakha, a 54-foot coastal research vessel. The College has an annual budget of more than $50 million, with much of the research support coming from the National Science Foundation, National Oceanic and Atmospheric Administration, National Aeronautics and Space Administration and other federal agencies. It has approximately 104 faculty, 220 graduate students and 613 undergraduate students. Graduate programs include a Master’s degree in Marine Resource Management, and Master’s and PhD degrees in Ocean, Earth and Atmospheric Sciences; Geology; and Geography. The new undergraduate program in Earth Science, together with the Environmental Sciences Undergraduate Program, provide educational and research opportunities for the best undergraduate students, a national honors college for the Earth.

OSU has an institution-wide commitment to diversity, multiculturalism and community. We actively engage in recruiting and retaining a diverse workforce and student body that include members of historically
underrepresented groups. We strive to build and sustain a welcoming and supportive campus environment. OSU provides outstanding leadership opportunities for people interested in promoting and enhancing diversity, nurturing creativity and building community.

Appointment: Incumbent appointed to 12-month appointment is expected to secure other sources of funding to support 7.5 months of his/her full-time salary. Salary is competitive and will be commensurate with experience. CEOAS policy is to confer indefinite tenure when promoted to full Professor. Should indefinite tenure be granted, the appointment will be on a 9-month basis, as are all CEOAS indefinite tenure agreements. Reappointment is at the discretion of the Dean.

The OSU benefit package includes several options for health/dental/life insurance, retirement, as well as a program for reduced tuition for qualified dependent.
http://oregonstate.edu/admin/hr/benefits/potentialhireacademic.pdf

Responsibilities:

70% Research/Scholarship: Establish and maintain an externally funded program of scholarly research in the area of emphasis. Work towards distinction in research as evidenced by national and international recognition through significant contributions to the field of high latitude studies. Publish scholarly work in peer-reviewed, top-ranked journals, conference proceedings and books appropriate for the areas of interest. Disseminate research results by participation at national and international professional conferences and symposia.

25% Teaching: High-quality teaching of graduate courses in the field of expertise. Participation in teaching undergraduate courses offered in the two CEOAS undergraduate degrees, Earth Science and the Environmental Sciences Undergraduate Program. All faculty are expected to mentor and advise graduate students and post-doctoral fellows.

5% Service: Provide service to the college and/or university to sustain and promote the research and educational missions. This position is also expected to participate in service to their research discipline through journal and grant review processes.

Minimum/Required Qualifications:

Ph.D. in oceanography, atmospheric sciences, geology, glaciology or a closely related field.

· A record of significant and innovative research in high latitude study corresponding to the aforementioned areas of interest.

· A strong scholarly potential demonstrated by a record of peer-reviewed publications and a clearly defined research agenda commensurate with academic rank.

· Demonstrated ability or significant potential for establishing a research program supported by extramural funding.

· A strong potential for teaching excellence in the graduate and undergraduate programs of the College of Earth, Ocean, and Atmospheric Sciences.

· A strong potential for mentoring graduate students and post-doctoral fellows.
· Proficiency in oral and written English.
· A commitment to educational equity in a multicultural setting and to advancing the participation of diverse groups and supporting diverse perspectives.

**Preferred Qualifications:**

Two years of professional experience.

Demonstrated record of successful interdisciplinary collaborations.

Experience in writing proposals and teaching experience at the university level are preferred.

A demonstrable commitment to promoting and enhancing diversity.

**Scholarly Outcomes:** Scholarly outcomes for the position are expected to result from 100% of the research duties (70% of total duties) and should be published in peer-reviewed, top-ranked journals, conference proceedings and books appropriate for the areas of interest. Research results should be disseminated by participation at national and international professional conferences and symposia.

**Decision Making Guideline:** Decisions made on a day-to-day basis regarding research, teaching, mentoring and service. Reports to the Dean when necessary and/or appropriate committee as needed.

**Application Closing:** For full consideration, applications must be received by January 31, 2012. Position closing date is February 29, 2012.

**To Apply:** go to jobs.oregonstate.edu/applicants/Central?quickFind=59689 For information regarding the College of Earth, Ocean, and Atmospheric Sciences please visit http://www.coas.oregonstate.edu/ and http://www.geo.oregonstate.edu/

When applying you will be required to attach the following electronic documents:

1. A detailed curriculum vita that includes a list of publications, and three professional references, their email addresses and contact numbers (Upload as 'Other Document' if not included with your vita).

2. A cover letter of application addressing the required and preferred qualifications, statement of current and proposed research interests and a statement of teaching experience and interest (Upload as 'Cover Letter').

**Inquiries** about the position may be directed to Dr. Yvette Spitz by email (yvette@coas.oregonstate.edu), 541-737-3227 (phone) or 541-737-2064 (FAX).

**University and Community:** Oregon State University has always been a place with a purpose – making a positive difference on quality of life and the natural world in Oregon and beyond. Through teaching, applied research, innovation and service, OSU turns ideals into reality with a unique approach characterized by collaboration and strategic focus.

Founded in 1868, OSU is one of only two American universities designated as a Land-, Sea-, Sun- and Space-Grant designations and is the only one in Oregon recognized for its “very high research activity” (RU/VH) by the Carnegie Foundation for the Advancement of Teaching. OSU is Oregon’s largest public research university,
conducting more than 60 percent of the research funded throughout the state’s university system and bringing in a record $250 million in scientific grants and contracts this year.

OSU is located in Corvallis, a community of 53,000 people situated in the Willamette Valley between Portland and Eugene. Ocean beaches, lakes, rivers, forests, high desert, the rugged Cascade and Coast Ranges, and the urban amenities of the Portland metropolitan area are all within a 100-mile drive of Corvallis. Approximately 18,000 undergraduate and 3,800 graduate students are enrolled at OSU, including 3,500 U.S. students of color and nearly 1,100 international students. Students come from all 50 states and nearly 100 countries worldwide.

Oregon State University is an Affirmative Action/Equal Opportunity Employer

The British Geological Survey has just advertised Stable Isotope Research Geochemist to work in their lab near Nottingham

The British Geological Survey (BGS), founded in 1835 is part of the Natural Environment Research Council (NERC), and is the world's longest-established national geological survey and the UKs premier centre for earth science information and expertise. A vacancy has arisen for a highly motivated and enthusiastic Stable Isotope Research Geochemist at our headquarters in Keyworth.

You will join the NERC Isotope Geosciences Laboratory (NIGL) and primarily conduct collaborative research in stable isotope mass spectrometry that comprise fields as diverse as hydrochemistry, pollution, geology, sedimentary processes, fluid processes, and climate-related research areas.

Your work will interface mainly with seven research and technical staff operating eight gas source mass spectrometers and ancillary equipment, but in parallel you will integrate your work with ~10 additional NIGL staff in radiogenic isotopes, geochronology, and plasma ionisation mass spectrometry and additional BGS scientific staff, while developing vibrant collaboration with the UK environmental science sector.

You should be educated to a PhD level in earth, environmental or related sciences, and will have experience in the measurement, research application, and publication of light element (i.e. H, C, N, O, Si, S) stable isotope ratios. While NIGL employs these techniques in a broad range of research topics, you will be expected to take responsibility for hydrochemistry, pollution studies, and surficial and solid earth geochemistry. With a first degree and PhD in earth, environmental or related science, you must also have postdoctoral research experience and outputs (including publication) in light element stable isotope techniques in geochemistry with some diversity in applications in environmental / geological science.

Knowledgeable about innovative developments in this field of research, you will display vision and leadership potential. Duties will involve: providing collaborative isotope research support to projects led by UK University and other NERC institute (especially BGS) scientists; developing and winning funding for related research; active involvement in the running, maintenance, and development of stable isotope analytical systems; training, supervision/mentoring of students and visiting scientists, and working integrally and collegially within the NIGL scientific team. Starting salary will be between £26,180 per annum to £37,120 per annum depending on qualifications and experience. Working hours will be 37 per week excluding lunch breaks. A generous benefits package is also offered, including a company pension scheme, childcare allowance, 30 days annual leave plus 10.5 days public and privilege holidays. Applications are handled by the RCUK Shared Services Centre; to apply please visit our job board at https://ext.ssc.rcuk.ac.uk and complete an online application form. Applicants who would like to receive this advert in an alternative format (e.g. large print, Braille, audio or hard copy), or who are unable to apply online should contact us by telephone on 01793 867003, Please quote reference number IRC39361. When using this website use Job area-Science Location-NERC-British Geological Survey Closing date for receipt of application forms is 25 February 2012.
The Department of Geology at the University of Otago, New Zealand seeks applicants from any field of geosciences for a confirmation-path position as Lecturer in Geology (US equivalent - tenure track, assistant professor). Applicants will be able to take advantage of New Zealand's dynamic geological environment and/or its proximity to the Southern Ocean and Antarctica to develop their research further. Applicants who add value and excellence to the departmental research profile will be considered most highly. See our website for more information www.otago.ac.nz/geology.

Appointees will be expected to maintain a high-level of research activity and to contribute to the departmental research profile postgraduate students, generating research income and participating in the national and international scientific community. Support will be provided to help appointees establish laboratory facilities.

Collegiality is an important requirement of appointees. Teaching and administrative duties will be minimal for the first two years to enable the new lecturer to develop their Otago research profile. Ultimately, appointees should be willing and able to teach in a range of undergraduate papers from 100-level to 400-level, contribute to the teaching of field classes, supervise 300- and 400-level undergraduate projects and contribute to departmental administration and University service.

Applicants must have completed a PhD or equivalent, and should have published research in international, peer-reviewed scientific journals.

Covering letters (<500 words) should outline the professional and personal reasons for applying and a statement of the applicant's fit to the post. In addition to covering letter and CV, applicants must provide an outline (<1000 words) of the research directions they would pursue in Otago (for the initial 3 to 5 years) and a statement (<500 words) of their approach to teaching.

Applicants are encouraged to explore potential research collaborations in advance of application. This can be mediated through Professor David Prior, email david.prior@otago.ac.nz.

The department intends to conduct interviews during the week of 12-16th March 2012. The start date for this post is flexible between July 2012 and the end of 2013.

Applications will close on Monday, 23 January 2012.

Vacancy at the British Geological Survey - Volcanologist

The British Geological Survey (BGS), founded in 1835, is part of the Natural Environment Research Council (NERC). It is the world's longest-established national geological survey and the UKs premier centre for earth science information and expertise.

A vacancy has arisen for a highly motivated and enthusiastic Volcanologist who will either be based at our headquarters in Keyworth or at our offices in Edinburgh.

You will undertake research to further understanding of volcanic systems and processes, working alongside colleagues and partners, principally to help increase UK preparedness for and resilience to volcanic eruptions. You will also contribute to volcanic hazards and risk assessments on a local to global scale (in particular in
support of the Global Volcano Model network). You will communicate your science through papers, reports and presentations to stakeholders from government, industry and academia.

You should have a good honours degree in geology, geophysics, physics or mathematics together with a PhD in Volcano Science. You should have a thorough understanding of volcanic and magmatic processes, and volcanic hazards. In addition you must possess good project management, and team-working skills. An effective communicator, you will be able to explain complex scientific issues to non-scientists / scientists from different disciplines.

Starting salary will be between £26,180 per annum and £29,410 per annum depending on qualifications and experience. Working hours will be 37 per week excluding lunch breaks. A generous benefits package is also offered, including a company pension scheme, childcare allowance, 30 days annual leave plus 10.5 days public and privilege holidays.

Applications are handled by the RCUK Shared Services Centre; to apply please visit our job board at https://ext.ssc.rcuk.ac.uk and complete an online application form. Applicants who would like to receive this advert in an alternative format (e.g. large print, Braille, audio or hard copy), or who are unable to apply online should contact us by telephone on 01793 867003, Please quote reference number IRC39182.

When using this website use Job area-Science
Location-NERC-British Geological Survey

Closing date for receipt of application forms is 3 February 2012.

The Natural Environment Research Council is an equal opportunities employer and welcomes applications from all sections of the community. People with disabilities and those from ethnic minorities are currently under-represented and their applications are particularly welcome. The British Geological Survey is an Investors in People organisation. There is a guaranteed Interview Scheme for suitable candidates with disabilities.

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The Royal Museum for Central Africa (Belgium) has open a postdoc research position in InSAR volcanology and geodynamics


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Crosby fellowship: The Department of Earth, Atmospheric and Planetary Sciences at the Massachusetts Institute of Technology (MIT) invites applications for the W. O. Crosby Postdoctoral Fellowship. We seek exceptional scientists with research interests in geology, geochemistry, or geobiology. Crosby Fellows pursue independent research, but are encouraged to collaborate with one or more researchers in the department. A faculty mentor will be assigned to host the fellow and provide intellectual guidance. Prospective fellows are encouraged to contact members of the department to discuss possible collaborations. The fellowship appointment will be for one year, renewable for a second year, and includes an annual salary of $60,000, a research and relocation allowance of up to $10,000 over two years, and benefits. Applications and three letters of reference are due by January 6, 2012, with an anticipated start date between June 1, 2012 and January 31, 2013. Applicants must have obtained a Ph.D. by the start date of the fellowship, but not more than three years before the start date. Applications and reference letters should be sent separately by email to wocrosby@mit.edu. The application should be submitted as a single PDF file containing a CV, a list of publications, a two-page plan of research to be
conducted during the fellowship, and the names, telephone numbers and email addresses of reference letter writers. We especially encourage applications from women and underrepresented minorities.

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**Saudi Aramco’s Exploration and Producing Advanced Research Center (EXPEC ARC) seeks a scientist to manage and grow their stable isotope geochemistry laboratory.** At present, the lab has two Thermo Fisher mass spectrometers (a Delta Plus XP and a Delta V Advantage), an Isolink CNH GC-combustion system, a Flash elemental analyzer, a Gas Bench II device and a thermal conversion elemental analyzer. These are being used to measure isotope ratios of C, H and N in natural gas, C in crude oil/bitumen/kerogen, C and O in carbonate rocks and H and O in formation waters. The manager will be expected to prepare and run samples within tight project deadlines, train and supervise technical staff, maintain the instruments and ensure the quality of all analytical data. As we are currently working on improved techniques for analyzing drilling mud gas and fluid inclusion gas, an interest in methods development is important. Candidates should have a B.S. or higher degree in science, an excellent command of English and strong diagnostic/trouble-shooting experience with stable isotope ratio instrumentation. Favorable consideration will be given to individuals with interpretive experience, report-writing skills and some knowledge of Isodat script language. The position is in Dhahran, Saudi Arabia, and is expected to fill by summer 2012. EXPEC ARC has over 250 scientists working in geophysics, geology, reservoir engineering, computational modeling, and production and drilling technology. Together we provide advanced technical services to Saudi Aramco’s upstream operations, carry out cutting-edge research, develop innovative technologies and test those technologies in some of the largest, most productive oil and gas fields in the world. Interested candidates should e-mail a statement of interest and their resumé to peter.jenden@aramco.com.

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**The Department of Geological Sciences at the University of Saskatchewan, is accepting applications for a chair at the Assistant or Associate Professor level in the area of environmental geochemistry, with particular focus on mine waste and decommissioning.** The successful candidate will join a University with a strong commitment to water research. There are significant opportunities for collaboration with faculty in other Departments and Colleges, especially the College of Engineering, where a senior IRC chair in this research area will be located.

Initial research funding will be provided by Syncrude, but the successful candidate will apply for an NSERC Associate Industrial Research Chair, and to develop a vigorous, externally funded research program. We seek candidates with a demonstrated record of research addressing fundamental problems in environmental geochemistry who are also committed to quality undergraduate and graduate teaching. A reduced teaching load will be defined at appointment, although teaching in our core undergraduate program will be required. Candidates must have a Ph.D., an established reputation for research, a demonstrated ability to secure research funding and experience with teaching and research supervision.

The College of Arts & Science offers a dynamic combination of programs in the humanities and fine arts, the social sciences and the sciences. There are over 8,000 undergraduate and graduate students in the College and 325 faculty, including 12 Canada Research Chairs. The College emphasizes student and faculty research, interdisciplinary programs, community outreach and international opportunities.

The Department of Geological Sciences in the Division of Science has 16 full-time faculty, including two Canada Research Chairs, two endowed research chairs, one of which is a senior Industrial Research Chair and excellent analytical, and computing facilities. For detailed information about the Department, applicants are encouraged to visit www.usask.ca/geology/.
The University of Saskatchewan is located in Saskatoon, Saskatchewan, a city with a diverse and thriving economic base, a vibrant arts community and a full range of leisure opportunities. The University has a reputation for excellence in teaching, research and scholarly activities and offers a full range of undergraduate, graduate, and professional programs to a student population of about 20,000. The university is one of Canada's leading research-intensive universities.

Applications, including résumé, statement of research interests and teaching philosophy, and three letters of reference, should be sent to:

Search Committee  
Department of Geological Sciences  
College of Arts & Science  
University of Saskatchewan  
114 Science Place  
Saskatoon, SK S7N 5E2, Canada  
Email: jim.merriam@usask.ca  
Fax: 306-966-8593

We will begin reviewing applications after January 20, 2012.

The University of Saskatchewan is committed to employment equity. Members of designated groups (women, people with aboriginal ancestry, people with disabilities and visible minorities) are encouraged to self-identify in their applications. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

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Victoria University of Wellington seeking outstanding candidates who will complement and enhance our existing strengths in sedimentology, geophysics, geochemistry, volcanology, structural geology, and petrology, and who will develop new or maintain existing research and teaching relationships with the Wellington-based Crown Research Institutes. Research interests may include, but are not limited to, energy or mineral resources, basin dynamics, and tectonics or geodynamics.

The successful candidate will be expected to build a vigorous and innovative, externally-funded research program involving graduate students and to participate actively in a comprehensive undergraduate curriculum that spans the breadth of fundamental earth sciences.

The School has a well-funded and diverse Earth Science research program. Facilities available in the School include a world-class geochemistry facility, electron probe microanalysis, luminescence dating, fission track thermochronology, GIS, multichannel seismic reflection equipment and a set of 20 Reftec seismographs for earthquake recording.

Members of the Earth Sciences programme work closely with researchers in Antarctic Research Centre and the Geography programme including joint supervision of graduate students.

Applications close -- 17 February 2012

Victoria University of Wellington is an EEO employer and actively seeks to meet its obligations under the Treaty of Waitangi.
UC Berkeley Seismological Laboratory: Six new research and technical positions

Research of the earthquake source, development and implementation of earthquake early warning

The UC Berkeley Seismological Laboratory (BSL) is pleased to announce six new positions, including post-doctoral and permanent positions. These positions are all to work with the earthquake source physics and earthquake early warning group lead by Prof Richard Allen. The group is working to better understand the physics of large magnitude earthquakes and to develop methodologies for earthquake early warning. The implementation of these methodologies will be tested on California’s real-time geophysical networks, where we will evaluate their current and likely future performance. Earthquake early warning is the rapid detection of earthquakes underway, estimation of the ground shaking hazard they pose, and warning of people in harm’s way. The successful applicants will work on a variety of projects related to early warning and real-time operations at the BSL. These will likely include research of the early phases of rupture nucleation and propagation, the development of seismic- and geodetic-based methods for rapid earthquake characterization, the use of new types of geophysical networks including MEMS-type sensors, the development of delivery tools to provide the warning, and the engagement of warning users.

Funding for all the positions is available beginning January 1, 2012, positions will be open until filled. Additional information about the positions, including the timeline for application evaluation, will be posted on the BSL webpage as it becomes available:

http://seismo.berkeley.edu/seismo.positions.html

To learn more about the early warning project and these positions at BSL please talk to one of the following at the upcoming AGU meeting: Richard Allen, Roland Bürgmann, Doug Dreger, Peggy Hellweg, Ingrid Johanson, Doug Neuhauser.

The six positions are:

1. **Researcher.** This fulltime staff research position is directed toward the development of seismic methodologies for early warning. This is a primarily a research position and will also involve some management of the early warning project. Applicants should have a PhD in geophysics and additional postdoctoral experience is preferred. More details will be posted on the BSL website as they become available.

2. **Academic Program Manager.** This fulltime staff position is focused on development of the BSL Earthquake Research Affiliates (ERA) Program (http://seismo.berkeley.edu/ERA/). The successful applicant will interface with existing ERA members and develop new members. He/she will help guide real-time earthquake information product development, and there is also the possibility of participating in the research and implementation if appropriate. It is anticipated that the successful applicant will have a PhD in science, if not in geophysics. More details will be posted on the BSL website as they become available.

3. **Postdoctoral Fellow in real-time geodesy.** This postdoctoral fellowship is focused on the use of real-time GPS data for the purpose of real-time earthquake information products including earthquake early warning. In addition, up to 25% of the time can be spent on independent research projects. The initial appointment will be for one year. Reappointment for a second and possibly third year is expected but dependent on satisfactory
progress. The review of applications will start January 1, 2012, and continue until the position is filled. Applicants should send a letter detailing their research interests and a CV to applications@seismo.berkeley.edu. Questions about the position should be sent to the same email address.

4. Postdoctoral Fellow in the physics of large earthquakes. This postdoctoral fellowship is focused on study of the physics of large magnitude earthquakes and extraction of key parameters for rapid earthquake information products including earthquake early warning. In addition, up to 25% of the time can be spent on independent research projects. The initial appointment will be for one year. Reappointment for a second and possibly third year is expected but dependent on satisfactory progress. The review of applications will start January 1, 2012, and continue until the position is filled. Applicants should send a letter detailing their research interests and a CV to applications@seismo.berkeley.edu. Questions about the position should be sent to the same email address.

5. Junior Programmer Analyst. A fulltime staff position to support the earthquake early warning project and related real-time operations. More details will be posted on the BSL website as they become available.

6. Senior Programmer Analyst. A fulltime staff position to support the earthquake early warning project and related real-time operations. More details will be posted on the BSL website as they become available.

The specific responsibilities of all the positions are negotiable, and interested applicants should contact Prof. Richard Allen (rallen@seismo.berkeley.edu) to discuss interests. If you would like to receive additional email notifications as position details and application deadlines become available send email to applications@seismo.berkeley.edu.

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Postdoctoral Fellowships - Department of Terrestrial Magnetism
The Carnegie Institution of Washington anticipates openings in the Department of Terrestrial Magnetism for postdoctoral fellows in one or more of the fields of geophysics, geochemistry, cosmochemistry, planetary science, and astrobiology. Details on DTM research staff, laboratory facilities, and ongoing research can be found at www.dtm.ciw.edu under “Research.” Fellowships are normally renewable for a second year. Applications should include a curriculum vitae, description of thesis research, list of publications, and a short (2-3 page) statement of research plans for the fellowship period, plus three letters of recommendation to be sent directly to DTM by those familiar with your work. Completed applications are due 15 January 2012. Women and minority candidates are especially encouraged to apply. AAE/EOE.

Please send applications to:
Department of Terrestrial Magnetism
Carnegie Institution of Washington
5241 Broad Branch Road, NW
Washington, DC 20015-1305
Attention: Fellowships Committee
E-mail submission address: fellowships@dtm.ciw.edu

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

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