

GEOBULLETIN
JAN 29TH, 2010

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 236 by noon on Monday.

Weeks Lecture

Speaker list - Winter/Spring 2010

Date	Speaker	Faculty sponsor
Jan. 29	- Joshua Feinberg	SINGER CONFIRMED
Feb. 5	- Julie Newman	TIKOFF
Feb. 12	- Tim Dixon 12 PM	TOBIN CONFIRMED
Feb. 12	- Andrew Dugmore 4 PM	
Feb. 19	- Roger Summons	JOHNSON CONFIRMED
Feb. 26	- J. F. Gaillard	SAHAI CONFIRMED
Mar. 5	- Carrick Eggleston	SAHAI CONFIRMED
Mar. 19	- Chris Pearson	
Apr. 9	- Robert Gaines	PETERS CONFIRMED
Apr. 16	- John Craddock	GOODWIN CONFIRMED
Apr. 23	- Rose Came	CARLSON
Apr. 30	- BOV/spring banquet	
May 7	- Emily Brodsky	FEIGL CONFIRMED

Joshua Feinberg
Assistant Professor
Department of Geology and Geophysics
Associate Director of the Institute for Rock Magnetism
University of Minnesota
Friday, Jan 29th 3:30 PM. Weeks Hall Room 140

Window into Deep Time: Paleomagnetic applications to outstanding questions about the Precambrian Earth

Paleomagnetic techniques are an essential tool for geophysicists seeking to learn about Earth processes during the Precambrian. From establishing the convective vigor of the Earth's core, to determining the arrangement of tectonic plates and their rate of transport, to providing constraints on the development of the Earth's atmosphere, paleomagnetic techniques are unique in their ability to "see" back into deep time. In order for paleomagnetic data to be reliably interpreted, great care must be taken to select materials whose remanent magnetization remains stable in

GEOBULLETIN
JAN 29TH, 2010

the face of subsequent geologic processes such as burial metamorphism and diagenesis. Using case studies from the Bushveld Complex, the Modipe Gabbro, and the North American mid-continent rift, this talk will describe some of the recent advances in our understanding of the Earth's geodynamo during the Precambrian.

JULIE NEWMAN
Dept. of Geology and Geophysics
Texas A&M University
College Station, TX
Friday, Feb 5th, 3:30 PM. Weeks Hall Room 140

Fabric and texture superposition in upper mantle peridotites, Red Hills, New Zealand

The Red Hills ultramafic massif, New Zealand records multiple deformation events interpreted to have occurred under mantle pressure and temperature conditions. Field relations, mineral compositions and olivine textures (lattice preferred orientations (LPO)) reveal 4 generations of superposed fabrics with evidence for strain localization on at least 2 scales.

These structural relationships suggest that the upper mantle may experience a complex deformational history, and thus acquire a heterogeneous deformational fabric. Furthermore, the LPOs of these rocks do not fully reflect the mesoscopic fabrics. When olivine LPOs are considered within the same (geographic) reference frame, it is apparent that rocks retain evidence of the preexisting LPO from earlier deformation. The possibility of multiple overprinting fabrics in the upper mantle, and the lack of complete resetting of LPO, needs to be considered when interpreting deformation at upper mantle conditions.

FOR UNDERGRADS:

Summer Research at UT Austin The University of Texas at Austin Environmental Science Institute is accepting applications for a summer research program exploring 'Global Changes and Its Impacts'. This program stresses connections between environmental science and policy in the area of Global Change and provides opportunity to explore research in the fields of ecology, geology, hydrogeology, civil engineering, urban planning, GIS, and coastal ecology.

<http://www.esi.utexas.edu/research/reu/info.html>

What: Environmental Science Institute - Research Experience for Undergraduates (REU)

When: June 7 - August 6, 2010

Where: UT Austin

Application Deadline: February 1, 2010

<http://www.esi.utexas.edu/research/reu/info.html#apply>

ESI-REU participants:

- receive \$4,500 stipend plus room and board
- spend ten weeks designing a research project and participating in a faculty-mentored research group
- participate in environmental science seminars, lab work, social outings, and field experiences

GEOBULLETIN
JAN 29TH, 2010

Eligibility:

- Participants must be U.S. citizens or permanent residents
- Students in their sophomore or junior years of college with strong academic credentials are encouraged to apply
- Undergraduates majoring in biology, ecology, geological sciences, civil engineering, marine science, chemistry, or any other environmentally-related discipline are encouraged to apply

The University of Texas at Austin
1 University Station, C9000
Austin, TX 78712
Phone: 512-471-5847
ktk@mail.utexas.edu

Wisconsin Geological and Natural History Survey
Geo Club Day
Saturday, February 6, 2010
at the Wisconsin Geological and Natural History Survey
WGNHS Mt. Horeb Core Repository
11:00 a.m.–2:00 p.m.

Tour the repository—SEE acres of core

Lunch—EAT loads of food

Social networking—MEET fellow Geoclubbites

Location: 211 S. Blue Mounds Street, Mt. Horeb, Wisconsin

RSVP by February 2: Carol McCartney mmccartney@wisc.edu 608.263.7393-Wisconsin Geological and Natural History Survey

JOB OPENINGS

- [Grand Teton National Park -Park Ranger Naturalist Intern](#)
- [The Geosciences laboratory in Montpellier opens 3 faculty permanent positions in 2010 in the domains of structural geology, tectonics and petrology](#)
- [University of Western Australia's University Postdoctoral Research Fellowship \(UPRF\) application round is now open.](#)
- [Department of Geology, University of Wisconsin -Oshkosh, seeks full-time, tenure-track assistant or associate professor starting Sept. 1, 2010](#)
- [The Aquatic Sciences division of the Department of Biological and Environmental Science at the University of Jyväskylä, Finland seeks a student to study the feeding migration ecology of Baltic salmon and to work towards a PhD degree.](#)
- [Junior-Professor for Experimental High - Pressure Research -\(approximately equivalent to the rank of an assistant professor / lecturer\) at the Institute for Mineralogy.](#)
- [The Department of Geology and Geological Engineering at South Dakota School of Mines and Technology invites applications for a 12-month position as Department Head at the Associate or Professor level.](#)
- [The Department of Civil and Environmental Engineering and the Laboratory for Atmospheric Research -\(LAR\) at Washington State University invite applications for a senior faculty position](#)
- [The National Research Council of the National Academies sponsors a number of awards for graduate, postdoctoral and senior researchers at federal laboratories and affiliated institutions](#)

GEOBULLETIN

JAN 29TH, 2010

- Candidates are sought for a 'Chaire d'Excellence' post in volcanology at the Laboratoire Magmas et Volcans (LMV) in Clermont-Ferrand, France, funded jointly by Blaise Pascal University and the Institut de Recherche pour le Développement (IRD)
- TWO POSTDOC POSITIONS WITHIN MICROSEISMIC MONITORING - NORSAR is an independent geoscientific research foundation established in 1968, specializing in software solutions and research activities within applied and pure seismology.
- The University of Wisconsin-Stout, Wisconsin's Polytechnic University, invites applications for a tenure track position for Assistant Professor beginning August 2010
- Tenure-Track Position in Geology -The Department of Geological Sciences and Engineering at Missouri University of Science and Technology
- Post Doctoral Research Associate -Illinois State Geological Survey -Institute of Natural Resource Sustainability - University of Illinois at Urbana-Champaign
- Director General - The International Centre for Environmental and Nuclear Sciences (ICENS)
- Visiting Assistant Professor – Geosciences -Denison University
- The Earth Institute and Lamont-Doherty Earth Observatory at Columbia University invite applications for the Marie Tharp Fellowship for Women
- University of Arizona - Faculty Position in Economic Geology and Mineral Resource Sustainability -The Department of Geosciences at the University of Arizona
- Mineralogy/Petrology -University of Wisconsin Oshkosh - Department of Geology seeks full-time, tenure-track assistant or associate professor starting Sept. 1, 2010
- Chair position in Environmental Change in the School of Geography & Geosciences, University of St. Andrews, UK.

JOB OPENINGS

Grand Teton National Park -Park Ranger Naturalist Intern - Working in the field of natural history interpretation consists of positions that deal directly with park visitors. After completing a training session, the work involves answering questions at visitor centers and providing trip planning help at an information desk, presenting short guided walks and tours, leading children's program and helping provide information to individuals you may encounter while completing special projects.

Compensation: Paid

When: Summer 2010

Where: Grand Teton Park, WY

Who: Anyone interested

Deadline: March 1, 2010

Location of Job Description: L&S Career Services BuckyNet Contact Info: Andrew Langford;
<mailto:Andrew_langford@nps.gov>Andrew_langford@nps.gov; 307-739-3401

The Geosciences laboratory in Montpellier opens 3 faculty permanent positions in 2010 in the domains of structural geology, tectonics and petrology. Montpellier is a city of 250000 inhabitants, located in the sunny south of France, by the Mediterranean. It is a major university city (>50 000 students). Géosciences Montpellier is an active research department with 75 researchers and 30 PhD students, supported by 45 technical and administrative staff, and many analytical and experimental facilities (<http://www.gm.univ-montp2.fr/>).

Official qualification for University positions is needed in France and the deadline is gone (October 26) but starting from this year, foreigners can apply if they occupy similar positions in their countries.

For any further details, address your questions to [Serge Lallemand](#) (head of Geosciences Montpellier) .

1 lecturer position in HT-HP Petrology

Geosciences Montpellier is seeking to appoint a Lecturer in "High-temperature, high-pressure Petrology" (tenured position, Maître de Conférences) starting from September 2010.

Applicants should be primarily concerned with the petrological characterisation of melt-rock interactions in the mantle. Ideally, research activities of applicants should combine petrological characterisation of mantle rocks both at the field and microscopic scales, microanalyses, and thermodynamical modelling applied to open HT-HP systems.

GEOBULLETIN

JAN 29TH, 2010

Teaching duties include the responsibility for the Igneous and Mantle Petrology classes and fieldwork from the 2nd to the 5th year (Master). The successful candidate will join the Mantle & Interfaces group, a large multidisciplinary research group (23 researchers, 9 technical staff, and 12 postdocs and PhD) focused on the study of the dynamics of the mantle (lithospheric and convective) and its interactions with the crust, oceans and core (<http://www.gm.univ-montp2.fr/spip/spip.php?rubrique44>).

Contact : [Jean-Louis Bodinier](#)

1 Professor of Geosciences (Structure, ductile tectonics)

Geosciences Montpellier invites applications for a tenure-track position as Professor in the department of Geosciences at the University of Montpellier, southern France, beginning September 2010. Candidates should have a strong field and theoretical background in structural geology and solid foundations in ductile tectonics. They must have a demonstrated ability to analyse deformational structures in ductile regime and competences in metamorphic petrology. It is expected that the research activities of the successful candidate will complement some aspect of our research interests focusing on the evolution of mountain belts. Competences in tectonic, thermo-mechanical modelling and geophysics will be appreciated to improve our knowledge of lithospheric deformation in convergent zones.

The successful candidate will be expected to teach introductory geology and structural geology at the Licence and Master level, and to participate in service functions of the teaching Department. Duties will also include organisation and participation to field excursions and supervision of senior theses.

The successful candidate will join the Dynamique de la Lithosphère group, a research group (12 researchers, 4 technical staff, and 5 postdocs and PhD) working on processes controlling the lithosphere-asthenosphere interactions in subduction zones and the dynamics of mountain ranges with specialization in structural geology, petrology, geochronology, marine geophysics and modelling. Contact : [Patrick Monié](#)

1 lecturer position in Metamorphic Petrology and P-T-d-t paths

[Geosciences Montpellier invites applications for a tenure-track position \(Maître de conférences\) with specialization in metamorphic mineralogy/petrology starting from September 2010. We seek a geologist with good expertise in metamorphic petrology and significant field experience. In particular, the candidate is expected to provide constraints on P-T-d-t paths in mountain belts at different space and time scales. The applicant is also expected to contribute to the different research projects of the Department \(Taiwan, Tibet, Patagonia, Mediterranean alpine ranges...\) and to develop research programs that include some focus on the geodynamic behaviour and evolution of the lithosphere.](#)

Teaching duties will include mainly courses in mineralogy and petrology from the 2nd (Licence) to the 5th year (Master) and organisation and participation to field trips.

The successful candidate will join the Dynamique de la Lithosphère group, a research group (12 researchers, 4 technical staff, and 5 postdocs and PhD) working on processes controlling the lithosphere-asthenosphere interactions in subduction zones and the dynamics of mountain ranges with specialization in structural geology, petrology, geochronology, marine geophysics and modelling. Contact : [Patrick Monié](#)

University of Western Australia's University Postdoctoral Research Fellowship (UPRF) application round is now open.

If you have anybody in your lab that would be interested in applying for a UPRF focussed around the NanoSIMS and/or IMS 1280 facilities, please bring this to their attention. The Fellowships are quite prestigious and therefore the application process is quite competitive. For more information, please follow the link below:

<http://www.research.uwa.edu.au/future-researchers/fellowship>

Dr Matt Kilburn

Assistant Professor/NanoSIMS manager

Centre for Microscopy, Characterisation and Analysis (M010)

University of Western Australia

35 Stirling Highway

Crawley 6009 WA Australia

+61 (0)8 6488 8068 office -- +61 (0)8 6488 8082 nanosims lab -- +61 (0)8 6488 2766 IMS 1280 lab

GEOBULLETIN
JAN 29TH, 2010

Mineralogy/Petrology-University of Wisconsin Oshkosh , Department of Geology seeks full-time, tenure-track assistant or associate professor starting Sept. 1, 2010. Specialty areas should complement existing faculty expertise and might include (but not limited to) mineralogy, volcanology, metamorphic petrology, and economic geology. Ph.D. required; prior college teaching experience preferred. Successful candidate will be a hard rock geologist who investigates field relationships as a fundamental component of his/her research and who is committed to undergraduate education, including advising students and developing a research program involving students. Teaching responsibilities include introductory courses, field trips, and mineralogy or petrology. Ability to teach economic geology and geochemistry desirable.

Submit letter of application, concise statement of teaching and research interests and experience, curriculum vitae, and undergraduate and graduate transcripts (original or copy) by February 15, 2010 to Dr. William Mode, Chair, Department of Geology, University of Wisconsin Oshkosh, Oshkosh, WI 54901. Have three current letters of reference sent directly to Department by that date. Employment requires criminal background check. The UW Oshkosh is an EO/AAE and encourages women and minorities to apply.

The Department of Geology is a University of Wisconsin System Center of Excellence. It has eight full-time faculty members and about 70 undergraduate majors. The Department has a strong commitment to undergraduate instruction, which is supported by excellent facilities and equipment. For additional information see www.uwosh.edu/departments/geology/.

PhD position in aquatic ecology - Jyväskylä, Finland

The Aquatic Sciences division of the Department of Biological and Environmental Science at the University of Jyväskylä, Finland (www.jyu.fi/bioenv/en/divisions/wet), seeks a student to study the feeding migration ecology of Baltic salmon and to work towards a PhD degree. The work will be carried out in close collaboration with national and international partners and we are seeking a highly motivated person capable of working independently but with a positive attitude to work in a team.

The student will be working in association with an Academy of Finland postdoctoral project awarded to Mikko Kiljunen which aims to distinguish the main feeding areas used by Baltic salmon migrating back to Finnish rivers using multiple intrinsic markers such as stable isotopes, contaminants and fatty acids, found naturally in sea water and in the diet of salmon. Archived and newly sampled tissues of ascending and sea-migrating salmon, as well as water samples, will be determined for the markers using the latest techniques in Finland and in overseas laboratories. Comparing data from different areas of the Baltic to tissue data obtained from ascending individual salmon will enable estimation of salmon feeding migration paths and investigate year to year variation in migratory connectivity in feeding areas. The project has the four following specific objectives: 1) To find potential fisheries management strategies for wild and reared Baltic salmon populations. 2) To determine to what extent migration patterns vary year to year basis and in investigate the consequences of this variation for conservation of wild salmon stocks. 3) To investigate effect of female migration patterns on high variability in they fry survival. 4) To evaluate links between migratory connectivity and salmon dietary status.

The position will start as early as possible in 2010, so applicants must have, or expect to obtain very soon, a Masters Degree (or equivalent qualification from a non-Finnish university) in an appropriate subject. Applicants should also have appropriate English language skills for international research and the motivation to undertake and complete the planned research. Candidates with a degree in natural sciences and a background in ecology or environmental science are encouraged to apply. Some experience of laboratory work, sampling and knowledge of statistical testing is required. Experience in stable isotope analysis and/or fatty acid analyses would be an advantage but is not essential since full training in these techniques will be provided. Candidates must be willing to spend at least a month at a collaborating laboratory in Austria to conduct the fatty acid analyses.

The student will be funded by the Maj and Tor Nessling Foundation and will receive a tax-free grant of 1525 EUR/month, including social security payments, without the social security payments, the grant is 1343 EUR/month. Free form applications in English should include a CV and contact information of two referees. Applications should be submitted by 24 January 2010.

Questions about the position and submission of the application by email to:

Dr. Mikko Kiljunen

Aquatic Sciences

Department of Biological and Environmental Science P.O.Box 35,

FI-40014, University of Jyväskylä Tel. +358 14 260 4231 Mobile. +358 440 696 186

GEOBULLETIN
JAN 29TH, 2010

Skype: mikko2402 Email: mikko.j.kiljunen@jyu.fi

Junior-Professor for Experimental High - Pressure Research
(approximately equivalent to the rank of an assistant professor / lecturer) at the Institute for Mineralogy.

The successful candidate should have a PhD degree in a relevant field of science that was obtained not longer than six years ago. The position is not tenure track a priori, but possibility of getting tenure, subject to evaluation of performance, is not excluded. The Junior-Professor will have a teaching obligation of four hours per week per semester at the B.Sc and M.Sc levels within the Geosciences curriculum of the department.

The ideal candidate should have a research record in experimental high-pressure research, especially with the piston-cylinder and/or multi anvil apparatus, applied to geochemical or petrological problems of the Earth's interior. It is expected that the successful candidate will be able to acquire external research funding. At the time of appointment, proficiency in German is a plus but not a requirement. The University of Münster is well equipped with high pressure laboratories (cold-seal, piston-cylinder and 800 t Multi-anvil apparatus), gas mixing furnaces, preparation labs, and a variety of analytical facilities such as EMP, SEM, Excimer LA-ICPMS, TEM). Further information can be found at: www.uni-uenster.de/Mineralogie/en/index.html

The Westfälische Wilhelms-University Münster is an equal opportunity employer and is committed to raising the proportion of women scientists in academic positions. Consequently, we actively encourage applications from suitably-qualified women. Women with the qualifications and disciplinary expertise required will be preferentially considered. We also welcome applications from candidates with severe disabilities who, with suitable qualifications, will be preferentially considered. Applications with a C.V., including teaching experience and publication list, copies of degree certificates, and a statement of past and future research interests, should be made by Feb 15th, 2010 to the Dean of the Faculty of Geosciences: Dekanat des Fachbereichs 14 -Geowissenschaften
Westfaelische Wilhelms-Universitaet Muenster
Robert-Koch-Str. 26-28
48149 Muenster ,Germany preferably by e-mail as a single pdf file to: dekangeo@uni-muenster.de

The Department of Geology and Geological Engineering at South Dakota School of Mines and Technology invites applications for a 12-month position as Department Head at the Associate or Professor level. The successful applicant should have a background in geology and/or geological engineering, a record of academic or industrial leadership, and a history of successful research in a field that complements existing department strengths. The Department Head is expected to lead departmental growth in the areas of enrollment, research, industry relations, and fundraising, in addition to managing faculty, staff, and the academic programs. Some teaching is expected. The department offers two undergraduate and three graduate degrees in geology, geological engineering, and paleontology, with eleven faculty, 90 undergraduate students and 45 graduate students. A Ph.D. in Geology, Geological Engineering, or a closely related field is preferred. Twelve-month salary range will be commensurate with background and experience.

The university is in the center of a diverse geological terrain. The Black Hills uplift lies within the northern Rocky Mountains, contains an historical gold mining region, and is flanked by the paleontology-rich Badlands and the petroleum-rich Williston and Powder River basins. Our Black Hills Natural Sciences Field Station offers a variety of geology, engineering, paleontology, and ecology field camps in the Black Hills, Turkey, and India. A number of facilities augment the natural laboratory, including a rock mechanics laboratory, GIS/remote sensing laboratory, a biogeochemistry facility, and an Engineering and Mining Experiment Station with a variety of analytical capabilities. The department and the Museum of Geology are completing a new building for a Paleontology Research Center to house its collection of 300,000+ specimens. The developing Sanford Underground Science and Engineering Laboratory at the former Homestake Gold Mine is close by and provides numerous opportunities for underground research and engineering design.

The School of Mines is a public state university offering baccalaureate, masters, and doctoral degrees in science and engineering with a student population of approximately 2,200 traditional and non-traditional learners representing 40 states and 34 countries. The university is located at the foot of the beautiful Black Hills in Rapid City, South Dakota's second largest city. Twenty-five miles from Mount Rushmore, Rapid City has a relatively mild climate and the Black Hills offer numerous opportunities for summer and winter outdoor experiences. For more information regarding Rapid City and the university, visit: <http://visitrapidcity.com/> and www.sdsmt.edu.

GEOBULLETIN
JAN 29TH, 2010

The School of Mines is committed to recruiting and retaining a diverse workforce. To apply for this position, applicants must apply on-line at <http://sdmines.sdsmt.edu/sdsmt/employment>. If you need an accommodation to the on-line application process, please contact Human Resources (605) 394-1203. Review of applications will begin March 1, 2010, and will continue until the position is filled.

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

The Department of Civil and Environmental Engineering and the Laboratory for Atmospheric Research (LAR) at Washington State University invite applications for a senior faculty position open at the associate or full professor level with a start date of August 16, 2010. Candidates are sought with an interest in atmospheric chemistry, biogeochemical cycling, or boundary layer meteorology at urban, regional or global scales. The successful candidate is expected to have an established research program involving field, laboratory and/or modeling studies. The ability to work collaboratively within our group and with outside institutions is a key requirement. The selected applicant will be expected to teach graduate and undergraduate air quality and engineering courses, direct graduate student research, and maintain an extramurally funded research program. An earned Ph.D. in a relevant engineering or science field is required. The Laboratory for Atmospheric Research (<http://www.lar.wsu.edu>) has a strong reputation for examining problems related to regional atmospheric chemistry and air quality using a combination of approaches, including instrument development, field observations, and numerical modeling. There are eight faculty in LAR, and the group collaborates with WSU faculty and outside scientists on a broad range of topics. In particular, LAR has a strong emphasis upon the interaction of atmospheric chemistry, natural ecosystems, and human activities at scales ranging from urban to regional to global. This includes ground-based and satellite borne remote sensing and air quality issues related to agriculture. LAR is also a focal point for measurement and modeling studies supported through the regional NW-AIRQUEST consortium which includes active participation by federal, state, and local air quality agencies throughout the Northwest

(<http://www.nwairquest.wsu.edu>). The LAR has recently initiated a new component to our graduate program Entitled the Atmospheric Policy Trajectory (APT) which aims to provide our science and engineering students with additional training in policy and communications. The LAR is also an active partner in a new NSF IGERT program entitled Nitrogen Systems: Policy-oriented Integrated Research & Education (NSPIRE).

Founded in 1890, Washington State University is a comprehensive research, land-grant institution with a total student enrollment of approximately 20,000. WSU is one of the largest residential universities in the West, and is located in Pullman, WA, about 75 miles south of Spokane. The Department of Civil and Environmental Engineering is one of five departments within the College of Engineering and Architecture. The Department has an active research program with approximately \$5 million in external annual funding. The Department maintains teaching loads in undergraduate and graduate instruction at attractive levels in order to allow time for research development and scholarly activities. Additional information about the Department is available at <http://www.ce.wsu.edu/>.

Applications will be accepted until the position is filled, screening will begin February 1, 2010. Send Curriculum vitae, statement of research and teaching interests, and names and contact information for four references to:

Dr. Brian Lamb

ATTN: LAR Search

Department of Civil and Environmental Engineering

Washington State University

P.O. Box 642910 ,Pullman, WA 99164-2910

WSU is committed to excellence through diversity, has faculty friendly policies including a partneraccommodation program, and a NSF ADVANCE Institutional Transformation grant to increase the advancement of women faculty in science, engineering and math (see <http://www.excelinse.wsu.edu/>.)

WASHINGTON STATE UNIVERSITY IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EDUCATOR AND EMPLOYER. Protected group members are encouraged to apply.

The National Research Council of the National Academies sponsors a number of awards for graduate, postdoctoral and senior researchers at federal laboratories and affiliated institutions. These awards provide generous stipends (\$42,000 - \$75,000 per year for recent Ph.D. recipients and higher for additional experience; Master's level stipends are \$38,000 per annum), and the opportunity to do independent research in some of the best-equipped and staffed laboratories in the U.S. Research opportunities are open to U.S. citizens, permanent residents, and for some of the laboratories, foreign

GEOBULLETIN

JAN 29TH, 2010

nationals. We ask your assistance in informing students and faculty in your department of these opportunities by copying this message to each one. Detailed program information, including instructions on how to apply online and a list of participating laboratories, is available on the NRC Research Associateship Programs Web site at: www.national-academies.org/rap

Questions should be directed to the NRC at 202-334-2760 (phone) or rap@nas.edu.

There are four review cycles annually. Deadline dates for 2010 are: February 1, 2010, May 1, 2010, August 1, 2010, November 1, 2010. Applicants should begin a dialogue with prospective Advisers at the lab as early as possible, before their anticipated application deadline.

Candidates are sought for a 'Chaire d'Excellence' post in volcanology at the Laboratoire Magmas et Volcans (LMV) in Clermont-Ferrand, France, funded jointly by Blaise Pascal University and the Institut de Recherche pour le Développement (IRD). The LMV is the largest volcanological research laboratory in France (70 permanent and 30 postdoctoral/postgraduate personnel), specializing in physical volcanology, experimental petrology and high-T geochemistry.

Techniques include ground-based and satellite-based remote sensing (thermal IR, DOAS, Doppler radar, InSAR), broadband seismology, electromagnetism, numerical modelling, high-T, ultra-high P (multi-anvil press) and analogue experimentation, textural and melt inclusion characterization, and isotopic analysis (Sr, Nd, Pb, Os, U-series). Analytical facilities include EMPA, SEM, FTIR, LA-ICP-MS and TIMS.

The IRD is the French overseas research organization, the volcanology group of which is integrated into the LMV. IRD volcanologists carry out research on volcanic systems and hazards in developing countries (notably South America) in partnership with local scientists and observatories. The successful candidate will integrate into the LMV IRD volcanology group, set up collaborative projects with IRD partner countries, supervise graduate students, and carry out research at the international level. He/she will also be required to depart on regular long-term missions of at least several months to partner countries in order to establish collaborations and do research. The post comes with an annual teaching load of 64 hours at undergraduate or postgraduate levels, either in France or abroad. The person would be required to master French within a year of arrival.

We are seeking a young volcano scientist with a strong international reputation. The post will be attributed at the Maitre de Conference level (equivalent to lecturer or assistant Professor) for 5 years, renewable once to a maximum of 10 years. It will be accompanied by a salary bonus of at least 4000 euros and assured annual research funds of 10,000-20,000 euros for the duration of the 'chair'. Once the 'chair' expires, the post will revert to a normal permanent university lectureship, and the person will be expected to pass to professorial level.

Candidates are in the first instance requested to send a short CV, a letter of interest and the names of three referees to Tim Druitt (T.Druitt@opgc.univ-bpclermont.fr) and Jean-Luc Le Pennec (lepennec@ird.fr), before the end of January. Formal application of short-listed candidates will follow this spring. Candidates familiar with the French application system should note that 'qualification' at the national level is no longer required for overseas candidates already occupying lectureship positions in other countries.

TWO POSTDOC POSITIONS WITHIN MICROSEISMIC MONITORING -- NORSAR is an independent geo-scientific research foundation established in 1968, specializing in software solutions and research activities within applied and pure seismology. NORSAR operates some of the world's largest seismological observatories, and has more than 40 years of experience in seismological data processing and analysis. NORSAR now offers two PostDoc positions within the field of microseismic monitoring. One is related to microearthquakes in geothermal reservoirs, the other is related to CO₂ injection and storage. Both projects will address earthquake location methods. Read more about NORSAR on <http://www.norsar.no/>.

PROJECTS, ROLES, AND TASKS

Within the EU-project GEISER (Geothermal Engineering Integrated Mitigation of Induced Seismicity in Geothermal Reservoirs) NORSAR offers a 2-year PostDoc position on the analysis of microseismic events. In this project the candidate will work with microseismic data sets from geothermal reservoirs. The development of a seismic velocity inversion method with application to microseismic data is the main objective. The tasks will also include an improvement of automatic microseismic

GEOBULLETIN

JAN 29TH, 2010

event analysis such as source parameter determination and location methods.

Within the SafeCO2 project (Safety Monitoring of CO2 Storages Using Microseismicity and 4D Seismic Modelling) NORSAR offers a 3-year Post Doc position. In this project a new location technique that combines phase picking with migration-based methods will be further developed and applied to microearthquake data. The results will be linked with interpretation of 4D seismic modeling and boundary element stress field computations, where the candidate will also be involved in and is expected to get familiarized with.

QUALIFICATION AND TERMS

Both candidates need to have programming skills and sound education in general seismological concepts. A PhD in geosciences, physics or mathematics is required for both positions. The candidates will work in an international team with English as working language.

Both positions will remain open for applications until filled. Candidates may be requested to pass professional selection procedures. Applications should be received as soon as possible. For additional information please contact:

Dr. Volker Oye, NORSAR, P.O. Box 53, NO-2027 Kjeller, Norway

Tel: +47-63805900; E-mail: volker.oye@norsar.no

Applications with documentation of competence and experience (full CV) should be sent electronically to Ms. Winnie Lindvik <winnie@norsar.no>.

The University of Wisconsin-Stout, Wisconsin's Polytechnic University, invites applications for a tenure track position for Assistant Professor beginning August 2010. A Ph.D. in Geology, Geoscience Education, Geotechnical Engineering, Physics, or a closely related field is required when contract starts. Applicants should have a strong potential and commitment to undergraduate teaching. Duties will include teaching introductory geology, soil mechanics, and soil conservation courses. An interest and ability to teach introductory courses or laboratories in physics is expected. Seeking external funding for scholarly activities is also desirable. UW-Stout is a laptop campus and willingness to use instructional technology in the classroom is required. Construction of a new science building is expected to be complete by September 2010. Additional information can be found at <http://www3.uwstout.edu/physics/>. Applicants should send, via an attachment to an email (in Word or PDF format), a letter of application (with contact information for three references), vita, one page teaching statement, one page research plan, and all undergraduate and graduate transcripts (unofficial acceptable for initial application) to Dr. Alan Scott, Search Chair, at scotta@uwstout.edu. Complete applications must be received by February 15th, 2010, at 5pm CST. The University of Wisconsin-Stout values diversity and strives to attract qualified women and minority candidates. EO/AA.

Tenure-Track Position in Geology -The Department of Geological Sciences and Engineering at Missouri University of Science and Technology (which was known as University of Missouri-Rolla prior to 1/1/2008) invites applications for a nine-month, tenure-track faculty position in the Geology and Geophysics Program to begin August 23, 2010. The position is intended at the assistant professor level, but appointment to associate professor level may be considered for qualified applicants.

Outstanding candidates in one or more of the following fields are encouraged to apply: petroleum geology, clastic or carbonate sedimentology, sequence stratigraphy, and basin analysis. The Department currently has 18 full-time faculty, about 300 undergraduate and 70 graduate students with established B.S., M.S., and Ph.D. programs in Geology & Geophysics, Petroleum Engineering, and Geological Engineering. The successful applicant will contribute to the existing departmental excellence in teaching and mentoring of graduate and undergraduate students, scholarships, externally funded research programs, and service in various levels. We seek applicants who can complement our current program strengths in petroleum exploration, remote sensing/GIS, seismic stratigraphy, palynology, biostratigraphy, environmental geochemistry, petrology and tectonics, and earthquake seismology. More information about the Department can be found at <http://gse.mst.edu>. Questions regarding this position should be directed to the chair of the search committee, Dr. Stephen S. Gao (sgao@mst.edu). A Ph.D. is required at the time of employment. The application should include a complete curriculum vita, statements of research and teaching interests, and the names and contact information of three referees. Review of the applications will begin on 2/1/2010 and continue until the position is filled. Please send application to:

Human Resource Services, Reference Number **00050313**, Missouri University of Science & Technology, 300 W. 13th Street, 113 Centennial Hall, Rolla, MO 65409-1050. HRS email address: hrsinfo@mst.edu

GEOBULLETIN
JAN 29TH, 2010

Missouri S&T is an AA/EOE and does not discriminate based on race, color, religion, sex, sexual orientation, national origin, age, disability, or status as Vietnam-era veteran. Females, minorities, and persons with disabilities are encouraged to apply. The Missouri University of Science and Technology is responsive to the needs of dual-career couples. *Missouri S&T participates in E-Verify. For more information on E-Verify, please contact DHS at 1-888-464-4218.*

Post Doctoral Research Associate - Illinois State Geological Survey -Institute of Natural Resource Sustainability - University of Illinois at Urbana-Champaign

We are seeking an individual to assist in the monitoring, verification, and accounting program of a field investigation to sequester CO₂ in geologic formations.

Responsibilities: The successful individual will integrate, interpret, and assist in collecting multi-disciplinary field monitoring data at sequestration sites; deploy existing field techniques and develop new techniques to monitor for CO₂ leakage into the shallow environment and atmosphere; contribute and/or lead efforts to create figures, text, and tables for progress reports, symposium presentations, journal manuscripts, and proposals for future funding; lead efforts in oil characterization laboratory to conduct tests such as minimum miscible pressure to support CO₂ enhanced oil recovery research efforts in the Illinois Basin; represent the ISGS and the Midwest Geological Sequestration Consortium at professional meetings and present papers and posters at the meetings; assist in organizing and maintaining laboratories within the Geochemistry Section that will be used during project; and train and supervise students.

Qualifications: Required: Ph.D. in geochemistry, soil chemistry, geology, environmental engineering, petroleum engineering, or related discipline. Employment as a post doctoral research associate requires the completion of a Ph.D. no more than five years prior to the beginning of the employment start date. Field and laboratory experience in conducting research with gaseous, water, and/or geologic materials. Skills in word processing, spreadsheet, database management, and graphics software. Demonstrated ability to work independently, prioritize, organize, and handle heavy workloads with multiple deadlines. Excellent written communication skills with demonstrated ability to produce comprehensive technical reports. Good communication skills to establish friendly, open, and clear communication with others. Ability and willingness to effectively contribute as part of a team. Ability to train and supervise the work of students. Preferred: Knowledge of geologic sequestration science. Experience in integrating and interpreting large spatial and temporal data sets. Experience in environmental monitoring. Experience with geostatistical software, geographic information systems, and relational databases.

The work of this position takes place in an office, chemical laboratory, and in the field. Must be able to sit for extended periods of time working at a computer, using a keyboard and mouse, and using repetitive hand motions. May be exposed to chemical odors and fumes. Must comply with requirements for personal protective equipment and safety regulations. Must be willing and able to perform field work in both rural and urban settings, some of which may be under less than ideal conditions (inclement weather, remoteness and moderate physical exertion). Must have ability to travel overnight for up to one work week at a time. Must be able to lift and manipulate field equipment and other items weighing up to 50 pounds.

This is a temporary full-time 12-month position. It is likely that position will be extended beyond one year depending on funding and programmatic need. The starting date is negotiable after the closing date. Salary is commensurate with experience. To ensure full consideration, applications must be received by **March 1, 2010**. Qualified candidates must submit a letter of application which details qualifications noted above, résumé, list of publications, working e-mail address, and the names, addresses, phone numbers, and e-mail addresses of three professional references to:

Lori Walston, Human Resources, Illinois State Geological Survey
615 East Peabody Drive, Champaign, IL 61820 – 217-244-2401
walston@isgs.illinois.edu
www.isgs.illinois.edu

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Post Doctoral Research Associate -Illinois State Geological Survey -Institute of Natural Resource Sustainability

GEOBULLETIN
JAN 29TH, 2010

University of Illinois at Urbana-Champaign

We are seeking an individual to conduct laboratory geochemical investigations with geologic materials and carbon dioxide as related to scenarios involving the geologic sequestration of CO₂. In particular, conduct interaction studies using high-pressure, high-temperature reaction vessels to identify the reaction mechanisms, kinetics, and solid-phase products that are likely to occur in saline sandstone and carbonate reservoirs, and with siltstone caprocks at potential sequestration sites in the Illinois Basin.

Responsibilities: The successful individual will conduct laboratory interaction studies with geologic core samples and brine solutions using high-temperature, high pressure reaction vessels; prepare core samples and post-reaction products for chemical and mineralogical characterization; develop, test, and refine laboratory methods and procedures in support of the evolving interaction studies; contribute to data interpretation and creates figures, text, and tables for progress reports, symposium presentations, journal manuscripts, and proposals for future funding; conduct analytical determinations of project samples using laboratory instruments such as an ion chromatograph; represent the ISGS at professional meetings, and present papers and posters at the meetings; assist in organizing and maintaining laboratories within the Geochemistry Section that will be used during project; and train and supervise students.

Qualifications: Ph.D. in geochemistry, soil chemistry, physical chemistry, or related discipline. Employment as a post doctoral research associate requires the completion of a Ph.D. no more than five years prior to the beginning of the employment start date. Laboratory experience in conducting research with water samples, and geologic materials such as rock, soil, or clay samples. Experience in analyzing research samples using laboratory instruments. Skills in word processing, spreadsheet, database management, and graphics software. Demonstrated ability to work independently, prioritize, organize, and handle heavy workloads with multiple deadlines. Excellent written communication skills with demonstrated ability to produce comprehensive technical reports. Good communication skills to establish friendly, open, and clear communication with others. Ability and willingness to effectively contribute as part of a team. Ability to train and supervise the work of students.

The work of this position takes place in an office, chemical laboratory, and in the field. Must be able to sit for extended periods of time working at a computer, using a keyboard and mouse, and using repetitive hand motions. May be exposed to chemical odors and fumes. Must comply with requirements for personal protective equipment and safety regulations. Must be willing and able to perform field work, some of which may be under less than ideal conditions (inclement weather, remoteness and moderate physical exertion). Must be able to carry field equipment and sample containers as needed during field work.

This is a temporary full-time 12-month position. It is likely that position will be extended beyond one year depending on funding and programmatic need. The starting date is negotiable after the closing date. Salary is commensurate with experience. To ensure full consideration, applications must be received by **March 1, 2010**. Qualified candidates must submit a letter of application which details qualifications noted above, résumé, list of publications, working e-mail address, and the names, addresses, phone numbers, and e-mail addresses of three professional references to:

Lori Walston, Human Resources, Illinois State Geological Survey -- 615 East Peabody Drive, Champaign, IL 61820
217-244-2401 walston@isgs.illinois.edu
www.isgs.illinois.edu

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Director General - The International Centre for Environmental and Nuclear Sciences (ICENS)

Expressions of interest and nominations are being sought for the chief scientific and administrative officer of ICENS. The mission of ICENS (<http://www.icens.org>) is the interdisciplinary application of science and technology to Jamaica's development.

The scientific agenda emphasises integrated research programmes based on environmental geochemistry and because of the extraordinary levels of several elements in certain Jamaican soils, the present focus is on elemental transfers and potential consequences thereof in the system:

SOILS ► FOOD ► PEOPLE.

GEOBULLETIN

JAN 29TH, 2010

This programme offers research opportunities in, for example, soil and environmental geochemistry, plant animal and human nutrition and public health.

The Centre is located on the Mona Campus of the University of the West Indies. The research equipment includes a SLOWPOKE 2 nuclear research reactor, a KeveX EDX-771 energy-dispersive X-ray fluorescence spectrometer, a very high sensitivity total reflection x-ray fluorescence spectrometer; and a Perkin Elmer OES OPTIMA 7000 DV. Excellent computer facilities are available.

ICENS is a member of COMSATS and is also a satellite centre of the Trace Element Institute of UNESCO.

The person being sought will have an excellent record of achievement in a related field and be willing to consider a 3-5 year initial contract. Emoluments are negotiable to some extent and a number of allowances including housing are paid. Return economy airfares are provided for appointee, spouse, and up to 3 dependent children. Assistance with payment for baggage is available. Further details can be obtained by email at: icens@uwimona.edu.jm, by telephone at (876) 935 8288 or by mail addressed to: Search Committee c/o Ms. Verna Lumsden, ICENS, 2 Anguilla Close, University of the West Indies Mona, Kingston 7, Jamaica.

Visiting Assistant Professor – Geosciences -Denison University --The Department of Geosciences at Denison University invites applications for a 1-year appointment for the 2010-2011 academic year. The area of specialization is open. Primary teaching responsibilities will be introductory sections of physical geology and an intermediate level environmental geology course. In addition, the possibility exists to teach an upper-level course in the candidate's area of expertise. A completed Ph.D. at time of appointment is desirable but ABD will be considered. Our department stresses a balance of classroom, field and laboratory experiences for our majors, and we seek a colleague who will contribute to all of these components of our undergraduate curriculum. Denison is a selective liberal arts college strongly committed to and supportive of excellence in teaching and active faculty research that involves undergraduate students. Submit application materials electronically at <https://employment.denison.edu>. Please include a cover letter; separate teaching and research statements; a vita; academic transcripts or list of geosciences coursework; and contact information for three references. Please contact Dr. Tod Froking, Dept. Geosciences, Denison University, Granville, OH 43023; (740) 587-6217; froking@denison.edu or visit <http://www.denison.edu/academics/departments/geosciences/> for more information about the position and department. Post application materials by January 30, 2010 for full consideration. Denison is an affirmative action/equal opportunity employer. To achieve our mission as a liberal arts college, we continually strive to foster a diverse campus community, which recognizes the value of all persons regardless of religion, race, ethnicity, gender, sexual orientation, disability, or socio-economic background.

Marie Tharp Fellowship for Women Scientists - Overview and Application Information: 2010-2011
For Residency in 2010-2011; Application Deadline: March 15, 2010 ---**Overview:** The Earth Institute and Lamont-Doherty Earth Observatory at Columbia University invite applications for the Marie Tharp Fellowship for Women. This fellowship provides up to \$30,000 to qualified women scientists to spend three months at Lamont-Doherty Earth Observatory (or related units) to conduct research. Fellows will have an opportunity to work with faculty, research staff, post docs, and graduate students during their fellowship. Marie Tharp Fellows will be appointed Adjunct Research Scientists at Columbia. Each fellow is expected to participate in EI/LDEO activities and make a scientific presentation during her residence. This award was started during the five-year, \$4.2 million National Science Foundation ADVANCE award, given to the Earth Institute at Columbia University over the period 2004-2009. The goal of this program is to promote the recruitment, retention, and advancement of women and minorities in the sciences, and to cultivate an environment that attracts, fosters, and promotes women leaders in science.

Background: The fellowship is named after Marie Tharp, who was the first to map details of the ocean floor on a global scale. She published the pivotal interpretation of mid-ocean ridges that was crucial to the eventual acceptance of the theories of plate tectonics and continental drift. Tharp based her work on data from sonar readings obtained by Maurice Ewing and his team. Piecing together data from the late 1940s and early 1950s, she and colleague Bruce Heezen discovered a 40,000-mile underwater ridge girdling the globe and established the foundation for the conclusion that the sea floor spreads from central ridges and that the continents are in motion with respect to one another—a revolutionary geological theory at the time. Years later, satellite images proved Tharp's maps to be accurate. Tharp came to Columbia in 1948. She then moved to the Lamont

GEOBULLETIN

JAN 29TH, 2010

Geological Observatory (now the Lamont-Doherty Earth Observatory), where she began work on mapping the ocean floor. Her map of the ocean floor is still a foundation for research and education in the ocean sciences.

Who Is Eligible to Apply for a Marie Tharp Fellowship? The competition is open to junior and mid-career women scientists in the earth sciences. Since the purpose of the Marie Tharp Fellowship is to bring promising women scientists to Columbia, faculty (full-time and adjunct) and researchers at Columbia are not eligible to apply. Applicants must hold a Ph.D. There are no restrictions on nationality; however, applicants must be authorized to work in the U.S.

What Does the Fellowship Entail? The duration of the Marie Tharp Fellowship is for a period of three months. Fellows are encouraged to visit for three consecutive months, but they may choose to take their fellowship in separate monthly visits. The fellowship must be taken in residence at one of the earth science units of the Earth Institute (see end for complete list of eligible units). The fellowship will provide up to \$30,000 for support of the fellow during the three-month period.

Budget: Fellows can use this award to pay salary, research expenses and travel, up to a total of \$30,000 over a three-month period. The following maximum limits are proposed: Salary \$20,000; Research Expenses \$25,000; Travel: \$5,000. In case of compelling reasons, the fellow may submit a written request to the LDEO Directorate to waive one or more of these limits. Requests will be reviewed on a case-by-case basis.

Application Procedure. Each applicant must submit a three-page proposal describing how she would use her time and with whom at Lamont-Doherty Earth Observatory / Earth Institute she would like to work. It is strongly recommended that applicants contact their collaborators prior to submission. The proposal must be accompanied by a *curriculum vitae*, a proposed budget, and two letters of reference. To prepare the budget please use the guidelines given above. All application materials must be submitted by March 15, 2010 via email to Dr. Kuheli Dutt at Kuheli.Dutt@columbia.edu. **All materials must be submitted as a single combined PDF document. Incomplete applications will not be considered.** References may be either included in the combined document or directly emailed to Kuheli.Dutt@columbia.edu

Selection Criteria. All proposals will be reviewed by a committee of scientists and administrators at EI and LDEO. The criteria for selection will be based on scientific excellence and potential contribution to LDEO / EI research activities. The following specific points will be considered: Quality of scholarly record as evidenced by publications and reference letters; Feasibility and quality of the proposed research as evidenced by the research proposal and reference letters; Relevance of the proposed research to the LDEO/EI Research activities as evidenced by the research proposal.

Marie Tharp Fellows will be notified of their appointment by April 15, 2010.

For further information, please see http://www.earth.columbia.edu/advance/mt_fellowship.html
http://www.ldeo.columbia.edu/ldeo/dir/academic-affairs-diversity/Funding_Opportunities.html

Contact: Dr. Kuheli Dutt, Assistant Director for Academic Affairs & Diversity

Lamont-Doherty Earth Observatory, Columbia University

61 Route 9W, Palisades, NY 10964-8000

Email: Kuheli.Dutt@columbia.edu Website: <http://www.ldeo.columbia.edu/academicaffairs>

The Department of Geosciences at the University of Arizona seeks to hire a tenure-track faculty at the Assistant or Associate Professor level in the area of economic geology with a commitment to interdisciplinary work in the general area of mineral resource sustainability. The position has been created as part of a campus-wide initiative on the sustainability of mineral resources with support from multiple state, federal, industry and non-governmental organizations. The Department is seeking an individual who is able to work with diverse students and colleagues, and who has experience with a variety of teaching methods and curricular perspectives. The successful candidate is expected to actively engage in multidisciplinary research and teaching through the Department of Geosciences, the new School of Earth and Environmental Sciences, the partnerships and initiatives of the Lowell Institute for Mineral Resources and related professional programs. The candidate's research should be original and address significant geological and/or geochemical questions related to mineral resources. Approaches can be field, lab or theoretical and could involve settings from surficial to magmatic, scales from microscopic to global, topics from basic science to applications and policy. (UA Job Number 44141, www.arizona.edu; review of applications will begin on January 15 and continue until the search is completed)

In addition to a cover letter, CV, and statement of teaching and research interests, please submit up to five reprints of published work and arrange for three letters of recommendation to be sent to:

GEOBULLETIN
JAN 29TH, 2010

The Economic Geology Search Committee
Department of Geosciences
University of Arizona
1040 East 4th Street
Tucson, AZ 85721-0077 U.S.A. or by e-mail to: egsearch@email.arizona.edu

Mineralogy/Petrology -University of Wisconsin Oshkosh - Department of Geology seeks full-time, tenure-track assistant or associate professor starting Sept. 1, 2010. Specialty areas should complement existing faculty expertise and might include (but not limited to) mineralogy, volcanology, metamorphic petrology, and economic geology. Ph.D. required; prior college teaching experience preferred. Successful candidate will be a hard rock geologist who investigates field relationships as a fundamental component of his/her research and who is committed to undergraduate education, including advising students and developing a research program involving students. Teaching responsibilities include introductory courses, field trips, and mineralogy or petrology. Ability to teach economic geology and geochemistry desirable.

Submit letter of application, concise statement of teaching and research interests and experience, curriculum vitae, and undergraduate and graduate transcripts (original or copy) by February 15, 2010 to Dr. William Mode, Chair, Department of Geology, University of Wisconsin Oshkosh, Oshkosh, WI 54901. Have three current letters of reference sent directly to Department by that date. Employment requires criminal background check. The UW Oshkosh is an EO/AAE and encourages women and minorities to apply.

The Department of Geology is a University of Wisconsin System Center of Excellence. It has eight full-time faculty members and about 70 undergraduate majors. The Department has a strong commitment to undergraduate instruction, which is supported by excellent facilities and equipment. For additional information see www.uwosh.edu/departments/geology/.

**Chair position in Environmental Change in the School of Geography & Geosciences, University of St. Andrews, UK.
Chair in Environmental Change**

As part of a continuing programme of expansion, we invite applications for a Chair in Environmental Change. You will have a strong international reputation, an outstanding record of innovative and internationally-recognised research and publication, and a track record of substantial funding success. You will play a major role in the leadership and development of the School's well-established Environmental Change Research Group, and development and enlargement of our Graduate School. No restriction is placed on area of expertise, but we seek to enhance and diversify our research in Earth surface process and biogeochemistry, and encourage applicants with interests in ecosystem processes, hydrology, glaciology, biosphere-atmosphere exchange, process-based environmental modelling or stable isotope biogeochemistry. Candidates with an outstanding record in Quaternary palaeoenvironmental reconstruction and/or palaeoceanography will also be considered. Preference will be given to candidates with research interests cognate to those of existing staff, and those whose research has policy relevance and/or has links with our expanding programme in Sustainable Development.

It is anticipated that a linked lectureship appointment will be made following the Chair appointment.

Informal enquiries to [Professor Paul Boyle](#) (Head of School) or [Professor Colin Ballantyne](#).

Please quote ref: SK099/09 --Closing date: 12 February 2009

Application forms and further particulars are available from Human Resources, University of St Andrews, The Old Burgh School, Abbey Walk, St Andrews, Fife KY16 9LB, (tel: 01334 462571, by fax 01334 462570 or by e-mail Jobline@st-andrews.ac.uk). The advertisement, further particulars and a downloadable application form can be found at <http://www.st-andrews.ac.uk/employment/>.

The University is committed to equality of opportunity.
The University of St Andrews is a charity registered in Scotland (No SC013532)

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