GEOBULLETIN
FEB 12TH, 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
Feb. 12 -	Tim Dixon 12 PM and 3 PM	TOBIN CONFIRMED
Feb. 12 -	Andrew Dugmore 4 PM	THURBER CONFIRMED
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 -	OPEN	
Apr. 16 -	John Craddock	GOODWIN CONFIRMED
Apr. 23 -	Rose Came	CARLSON
Apr. 30 -	BOV/spring banquet	
May 7 -	Emily Brodsky	FEIGL CONFIRMED

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WEEKS LECTURE

TIMOTHY H. DIXON

University of Miami
NSF MARGINS Program Distinguished Lecturer

Friday, Feb 12th Noon, AB20 Weeks hall

Slow Earthquakes in the Costa Rica Subduction Zone

Subduction zones, where oceanic plates are pushed under the leading edge of continental plates along ocean trenches, produce Earth's largest earthquakes and most tsunamis. The pattern of strain release

during earthquakes, where the leading edge of the continental plate jumps towards the ocean by several meters or more, is related to the slow build-up of strain accumulation during the interseismic period, which may last for hundreds of years. New GPS technology permits this slow pattern of strain accumulation to be measured. Studies of strain accumulation may give clues to the nature of future earthquakes, leading to improved understanding of the seismic process and improved forecast of seismic hazard. However, GPS data at a number of subuction zones indicates that not all accumulated strain is released during earthquakes; slow, aseismic slip events with durations of days – months are increasingly recognized as a major component in the strain release budget. In this talk I will describe a new GPS and seismic network that is being installed in northern Costa Rica to monitor such events, and describe preliminary results from the first three years of operation. We have already observed one slow slip event, in May 2007. Maximum surface offsets were approximately 2 cm, occurring over a duration of several weeks, corresponding to an ~ M 6.5 earthquake if all of this strain had been released rapidly. Maximum slip was centered near the down-dip edge of the conventionally defined seismogenic zone. How these data are collected, analyzed and interpreted will be discussed, as well as implications for future earthquakes and improved understanding of the earthquake process.

TIMOTHY H. DIXON

Friday, Feb 12th 3:00 PM, Room 140, Weeks hall

New GPS results on accelerating uplift and ice melting in Greenland

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WEEKS LECTURE

ANDREW J. DUGMORE

Professor of geosciences
Geography, School of Geosciences,
University of Edinburgh

Friday, Feb 12th, 4:00 PM. Weeks Hall, Room AB20

Well adapted but still extinct: lessons in human ecodynamics from the Viking settlement of the North Atlantic

In Greenland we have the apparent paradox of more than four centuries of Norse sustainable practice and successful adaptation to climate change coupled with ultimate failure. In Iceland and the Faroe Islands the Norse settlement endured, but in the case of Iceland long-term settlement success was associated with extensive landscape degradation. We propose that the choices made in Norse Greenland to develop their farming system with a rising level of connection and intensification of marine resource utilization could have created an elegant solution to global changes that increased the short-term effectiveness of adaptation and minimized landscape impacts, but at a cost of reduced resilience in the face of unexpected variation. In

effect, their concentration on marine mammals for subsistence and a highly integrated communal approach to both subsistence and economic activity (the harvesting and processing of prestige goods, particularly ivory) was effective in the short term, could be refined to cope with a degree of change but ultimately proved to lack resilience; results that contrast with developments in Iceland and the Faroe Islands.

WEEKS LECTURE

ROGER SUMMONS

MIT

Friday, Feb 19th, 4:00 PM. Weeks Hall, Room 140

The Cloud Paradigm: Geostable molecules as proxies for surface oxygenation

Over the past fifty years geoscientists have struggled to understand how and when Earth's surface became habitable to complex, intelligent life. One of the prevailing scenarios, first articulated by Cloud, Holland and Walker, proposes that there was an initial anoxic or very low O_2 atmosphere. Although photosystem II appeared relatively early there was an extended period of imbalance between sources & sinks of O_2 through pervasive feedback between biosphere, atmosphere, hydrosphere & lithosphere. Ultimately O_2 accumulated in the atmosphere to near its present level at about 540Ma. Life evolved concurrently. This talk examines some of the evidence for and against this idea based on the distributions of isotopic and molecular fossils and what these can tell us about the antiquity of oxygen-dependent biochemical pathways.

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2010 Geologic Photo Contest

Sponsored by the Undergraduate Geo Club

What:

A photo contest for you to show off that plethora of geology related photos to people who actually care.

Who can participate:

Anyone and everyone

How long does this go on:

Submissions must be in by April 25th 2010

Official Rules:

You may only enter 2 photos per category, ten photos total. All submissions must have the accompanying information:

Name of photographer, Category, Subject (what are you or who are you photographing), When, Where the photo was taken.

Categories:

- Close up of geologic feature
- Black and White
- Group Photo

- Landscape
- Other – geology related – (Lab photos)

***How to Submit a photo:**

Please submit all photos electronically through e-mail. Please only submit one e-mail per category which can contain both submissions for that category. Please title the Subject line of your e-mail with your last name and the category in which you would like to submit. Make sure you have all the accompanying information with your submission (Name of photographer, Category, Subject (what are you or who are you photographing), When & Where.). This information can either be in the body of the e-mail or in an attached text file. We will not except submissions without this information (have to give credit where credit is due). Submissions can be sent either to Reba Heiden at rmheiden@wisc.edu or Lynsey Spaeth at lspaeth@wisc.edu.

Prizes:

At the end of the semester, all photos will be displayed publicly in Weeks Hall and will be judged based on category criteria through a voting process held in the beginning of May.

Prizes are yet to be determined, however winning photos will be combined into a annual calendar or poster calendar and sold for the holiday season through GeoClub. Winners will receive a calendar at no cost.

*Prize donations, for the contest, will be greatly appreciated.

***Please be aware that by submitting a photo you agree to the public display and free usage of the photo by the UW Undergrad GeoClub.**

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JOB OPENINGS

- Mineralogy/Petrology -University of Wisconsin Oshkosh -Department of Geology seeks full-time, tenure-track assistant or associate professor.
- Electron Microprobe Technician (SENCR-MIC) - The Southeastern North Carolina Regional Microanalytical and Imaging Center (SENCR-MIC), a collaborative research center between Fayetteville State University and the University of North Carolina at Pembroke, is seeking applications for a Laboratory/Research Technician
- Bruce Museum, Greenwich, CT (www.brucemuseum.org), seeks a Curator of Science
- PhD position in Quaternary Geology, with topic "Boreal ecosystem from the glacial period to the Holocene in N Europe" -at the Department of Geosciences and Geography, University of Helsinki, Finland
- Faculty position at Department of Geosciences, National Taiwan University
- The Community Foundation for Southwest Washington , in cooperation with the U.S. Geological Survey's David A. Johnston Cascades Volcano Observatory (USGS, CVO), invites applications for the 2010 Jack Kleinman Volcano Research Grants Program
- The Department of Geoscience at the University of Nevada Las Vegas is seeking candidates for a tenure-track position in terrestrial climate science
- 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
- 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.
- Candidates are sought for a 'Chaire d'Exellence' 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 Developpement (IRD)

JOB OPENINGS

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/.

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Electron Microprobe Technician (SENCR-MIC) - The Southeastern North Carolina Regional Microanalytical and Imaging Center (SENCR-MIC), a collaborative research center between Fayetteville State University and the University of North Carolina at Pembroke, is seeking applications for a Laboratory/Research Technician. The successful candidate will be responsible for training and scheduling users on the center's new JEOL JXA 8530F Hyperprobe and JSM 6510 LV-SEM as well as the day to day operations of the center. The successful candidate will also teach courses relating to use of the instrument and have the opportunity to conduct independent research, time permitting.

Qualifications: Master's degree (PhD preferred) in geological sciences, material sciences, chemical engineering or related field. Experience in electron microprobe analysis is preferred. The successful candidate must possess outstanding oral and written communication skills.

For additional information on the facility see: www.sencr-mic.org. To apply, complete the online application process (https://jobs.uncfsu.edu) by electronically submitting a cover letter, CV, statement of research interests and the names/address of three references (PDF required). For questions about the position, contact Dr. Steven Singletary, ssingletary@uncfsu.edu, 910.672.2079.Review of applications will begin on March 31, 2010 and continue until the position is filled. FSU is an AA/EOE.

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Bruce Museum, Greenwich, CT (www.brucemuseum.org), seeks a Curator of Science responsible for its permanent collection encompassing all aspects of natural history, with particular strengths in birds, minerals, shells and local mammals. The curator develops and implements 2-4 temporary science exhibitions each year at the Bruce Museum in Bruce Park. S/he documents and interprets the permanent collection. The curator will also be part of a team planning a new coastal Long Island Sound Environmental Studies and Seaside Center at Greenwich Point.

Additional responsibilities include: serving as liaison between the Museum and an advisory Science Committee; serving on the Collection Committee that acquires specimens; supervising a part-time science curatorial assistant, volunteers and interns; managing the department budget and restricted funds.

This is a FT, exempt position. A working knowledge of curatorial practices and the natural sciences are required. Fluent writing and speaking skills are a must. The ability to handle collection objects without supervision and to travel is essential. Extensive independent judgment and authority for decision making is required. This dynamic individual will also foster and advise local collectors and cultivate donors and sponsors. A Master of Science with thesis in a natural science field and 3 years previous curatorial experience are required, PhD preferred. Salary commensurate with experience; the Museum offers a competitive benefits package.

Send cover letter and resume to: Kathy Reichenbach, Bruce Museum, 1 Museum Drive, Greenwich, CT 06830 or kreichenbach@brucemuseum.org. Applications will be reviewed as they are received.

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PhD position in Quaternary Geology, with topic "Boreal ecosystem from the glacial period to the Holocene in N Europe" -at the Department of Geosciences and Geography, University of Helsinki, Finland

The position is financed by the Academy of Finland
Project description: The aim of the project is to use key palaeoecological techniques for reconstructing the vegetation history near the ice-marginal region in central Russia and from there towards Fennoscandia, with special emphasis on investigating the potential occurrence of glacial and late-glacial tree populations near the ice sheet margin and their subsequent spreading patterns. The project aims to use novel approaches for estimating vegetation cover (also in terms of biomass) and to integrate the new data with existing palaeoclimatological and fossil mammal records to generate a more holistic view on the glacial, late-glacial and Holocene environment in the region. The project is strongly linked to other on-going international programs and collaboration.

Terms of employment: The duration of the contract will be about 3.5 years, depending on the date the PhD student will start. The monthly salary will be about 2000 E. The position is a full-time research position, including a 5% commitment for teaching or departmental responsibilities.

Qualifications: The candidate is expected to have MSc. or equal in earth sciences (geology, geography) or relevant biological sciences (paleontology, palaeoecology). The candidate is expected to have a good idea of the main methods, issues, and concepts of Quaternary geology, palaeoecology and palaeoclimatology and basic skills of computing, including basic GIS techniques. Candidate must be self-motivated, committed and internationally oriented. The project will include fieldwork in central Russia and northern Europe and ability to operate in the field is an important prerequisite.

Applications must include a curriculum vitae, a brief letter explaining the motivation for applying for the position, as well as a description of future goals. Please include the name and contact information of one or two referee persons in the application.

Location: The candidate will be located at the Department of Geosciences and Geography, University of Helsinki. The department has about 60 employees and about 60 post-docs and PhD students.

Planned starting date: 1.6. – 1.7.2010 (can be negotiated)
Final date for applications: 15.3.2010

For further information, contact: **Heikki Seppä**, Professor of Quaternary Geology
Department of Geosciences and Geography, P.O. Box 64, FI-00014, University of Helsinki, Finland
Phone: +358-9-191 50820
E-mail: heikki.seppa@helsinki.fi
Homepage: http://www.helsinki.fi/science/palaeoclim/

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Faculty position at Department of Geosciences, National Taiwan University

The Department of Geosciences at NTU is seeking active scientists to fill one faculty position starting from 1st August, 2010 or 1st February, 2011. The position is open to all fields in geosciences, but those who have strong background in the field of geochemistry and capability of setting up and leading an AMS (accelerator mass spectrometry) lab will receive more favored consideration. Applicants are requested to submit the following documents: CV, list of publications, three to five reprints of refereed publications (one of which shall be designated as representative paper and must be published after 1st August, 2007), plans for teaching and research, and names of three potential referees to Professor Wen-Shan Chen, Chairman of Department of Geosciences, National Taiwan University, No. 1, Sec. 4, Roosevelt Rd., Taipei 106, Taiwan. Also, please email the above material to Professor Tsanyao Frank Yang, the Convener of the searching committee, at tyyang@ntu.edu.tw <mailto:styyang@ntu.edu.tw .

Deadline for application: 28th February, 2010. Web site: http://www.gl.ntu.edu.tw/

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Announcing the 2010 Jack Kleinman Grants for Volcano Research--The Community Foundation for Southwest Washington , in cooperation with the U.S. Geological Survey's David A. Johnston Cascades Volcano Observatory (USGS, CVO), invites applications for the 2010 Jack Kleinman Volcano Research Grants Program. The program is intended to perpetuate and memorialize the attributes embodied by Jack Kleinman, a USGS employee who died in a kayaking accident in 1994, to promote collaborative projects on volcanoes among USGS and university researchers, and to further the educational and outreach mission of the USGS. Stipends of $500 to $2,000 are available to senior undergraduates and graduate students who are conducting research in volcanology, preferably in the Cascade Range, Aleutian volcanic arc, Hawaii , Yellowstone, or Long Valley caldera. The funds are intended to defray the costs of conducting field studies, including such items as travel to the field area, living expenses while in the field, supplies, or analytical services. Applicants need not be U.S. citizens.

Consideration in the selection of grant recipients will be given to the characteristics that best defined Jack Kleinman: exuberance, integrity, reliability, loyalty, and the abilities to relish challenge, inspire enthusiasm in others, and delight in the natural world. An example of the scope of work envisioned is a field project involving geologic, geochemical, or geophysical investigation in one of the volcanic areas listed above. A strong emphasis on fieldwork is highly desirable. Involvement of a faculty adviser or cooperation with a staff member at CVO, Alaska Volcano Observatory (AVO), Hawaiian Volcano Observatory (HVO), Long Valley Observatory (LVO), or Yellowstone Volcano Observatory (YVO) is strongly recommended. Contact information and summaries of current research at the observatories are available at http://volcanoes.usgs.gov/ . To promote projects of mutual interest, collaboration with a USGS scientist at an observatory or elsewhere is given considerable weight in the selection process. Successful applicants are encouraged to present their results as part of the Kleinman Seminar Series at one of the USGS facilities and to publish their work in an appropriate research journal.

Applicants should submit: (1) a short (3-5 pages) project description including objectives, strategy, and anticipated products, including a budget any other sources of support for the project; and (2) two letters of recommendation, including at least one from a current academic adviser or instructor. The application and letters should address explicitly how the project meets the selection criteria listed above. Send application and supporting letters in PDF or Microsoft Word format to kleinmangrants@comcast.net with "KLEINMAN 2010" in the subject line. Applications will be evaluated by a panel of USGS/CVO staff members. The Community Foundation for Southwest Washington will make final decisions on the number and dollar amounts of the grants. The deadline for receipt of applications is March 1, 2010 . Selections will be announced by April 1, 2010.
Additional information about educational outreach at USGS/CVO, including the Kleinman grants program, is available at http://vulcan.wr.usgs.gov/Outreach/ .

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Assistant Professor, Geoscience - The Department of Geoscience at the University of Nevada Las Vegas is seeking candidates for a tenure-track position in terrestrial climate science. We are searching for a process-oriented scientist whose research will link climate science to changes in hydrologic processes, primarily, as well as to changes in critical zone, ecological, and surface geological processes. Possible research foci include evaluating the impact of anthropogenic climate change and natural climate variability on water resources and ecosystems in the desert southwest, and understanding past hydroclimate variability. The successful candidate is expected to build a sustained, externally-funded research program that incorporates a strong field component that is relevant to the Great Basin/Mojave Desert Region. The ability to collaborate with a broad range of other faculty members across UNLV, as well as UNR and DRI, is highly desirable. This position will benefit from new research infrastructure, including state-of-the-art laboratory facilities in stable isotope geochemistry, soils, hydrology and GIS; the Center for Urban Water Conservation; NSF
EPSCoR Climate Change monitoring transects in the Great Basin; and the NSF EPSCoR Climate Change project team. Duties of this position will include the supervision of graduate students seeking MS and PhD degrees in Geoscience, instruction of introductory courses in the areas of Climatology and Earth Science, and upper-division/graduate instruction in the candidates' specialty. The position will be at the Assistant Professor level, and requires that the candidate hold a PhD degree in the Geosciences or a related field at the time of appointment (expected to be August, 2010). This hire will be initially funded by a

major NSF EPSCoR grant focused on Climate Change, and the successful candidate will be expected to participate in that program.

Review of applications will begin February 16th, 2010, and continue until the position is filled. For details, see http://jobs.unlv.edu or call 702-895-2894. AA/EEO Employer.

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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.govAndrew_langford@nps.gov; 307-739-3401

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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 the 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 Conferences) 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.
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 conferences) 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 rangesŠ..) 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**

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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

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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/.

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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

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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.
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.

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Candidates are sought for a 'Chaire d'Exellence' 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 Developpement (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.

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