

GEOBULLETIN

FEB 19TH, 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. 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

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 O₂ atmosphere. Although photosystem II appeared relatively early there was an extended period of imbalance between sources & sinks of O₂ through pervasive feedback between biosphere, atmosphere, hydrosphere & lithosphere. Ultimately O₂ 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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WEEKS LECTURE

JEAN-FRANÇOIS GAILLARD

NORTHWESTERN UNIVERSITY, IL

*Department of Civil and Environmental Engineering, Department of Earth and Planetary Sciences, and
Center for Catalysis and Surface Sciences*

Friday, Feb 26th, 3:30 PM. Weeks Hall, Room 140

METALS IN AQUATIC ENVIRONMENTS: SPECIATION AND BIOAVAILABILITY

Georg Bauer – Georgius Agricola – documented early on that mining and smelting operations had some undesirable effects on the environment. Since then, our unbounded need for Earth resources and our continuous release of metals to the environment is slowly, but surely, affecting our biological and chemical surroundings. This talk will focus on the biogeochemical processes that contribute to the chemical and microbial evolution of contaminated sediments. An emphasis will be placed on the use of molecular tools to probe the interconnection between the chemical speciation of metals and their bioavailability.

The sediments of lake DePue, a backwater lake on the Illinois River, were contaminated by the operation of a Zinc smelter. Inspection of sediment particles by Analytical Electron Microscopy reveals that Zn is associated with Fe, P, and S. Bulk analysis of sediments by X-ray Absorption Spectroscopy (XAS) provides quantitative information about Zn, *i.e.*, the various coordination environments in which Zn is involved. The effect of metal stress on the microbial populations present in these sediments was investigated by assessing microbial abundance and measuring microbial activity through sulfate reduction rates. A weak relation was found between metal concentrations and microbial biomass, but the most striking result was that very high rates of sulfate reduction were measured although it was very difficult to isolate sulfate reducing bacteria (SRB). T-RFLP - terminal restriction fragment length polymorphism – analysis of the microbial consortia present in these sediments showed a greater diversity among Archea than Bacteria. These results beg the question: which group is actually responsible of the use of sulfate as an electron acceptor. ZnS precipitation was found in the upper part of the sediment suggesting that the common sequence of diagenetic reactions is severely altered in some environments. Results of Zn bioavailability assessed using a whole cell microbial biosensor correlate well with the measurement of the electro-labile fraction of Zn by voltammetry. These findings provide a context for better delineating the relationships between metals and microbes in perturbed/extreme environments where chemical and microbial speciation plays a key role in framing the evolution of the system.

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.

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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 accept 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 an 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.**

JOB OPENINGS

- The Departments of Geological Sciences and Science Education at Central Washington University invite applications for a full-time, tenure-track position at the Assistant/Associate Professor.
- Volcano Seismologist, Montserrat Volcano Observatory
- Summer of Applied Geophysical Experience (SAGE) 2010 -The SAGE program is a three-week graduate and advanced undergraduate course of instruction and research in exploration geophysics based in Santa Fe, New Mexico, USA
- 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
- Grand Teton National Park -Park Ranger Naturalist Intern
- 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.

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- 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 Developpement (IRD)

JOB OPENINGS

The Departments of Geological Sciences and Science Education at Central Washington University invite applications for a full-time, tenure-track position at the Assistant/Associate Professor level beginning September 16, 2010. The faculty member will hold a joint appointment between the two departments. Responsibilities include teaching science methods and appropriate geological sciences courses and developing a program of scholarship that incorporates undergraduate and Master-level graduate students. Applicants in all disciplines of research in geological sciences are invited to apply. A Ph.D. in Geological Sciences or closely related field with experience/potential for developing science education programs OR a Ph.D. in Science Education with coursework equivalent to a Master's Degree in Geological Sciences is required. For more information visit www.geology.cwu.edu or www.cwu.edu/~scied. To apply go to <https://jobs.cwu.edu>. Screening begins 3/19/10 and continues until position is filled. Central Washington University is located in Ellensburg, population 17,000, which provides one of the finest living environments in the Pacific Northwest. AA/EOE/Title IX Institution.

Volcano Seismologist, Montserrat Volcano Observatory -From: Richard Robertson Richard.Robertson@sta.uwi.edu

The Seismic Research Centre (www.uwiseismic.com) seeks a volcano seismologist to join the volcano monitoring team at the Montserrat Volcano Observatory (www.mvo.ms). The successful candidate will be responsible for leading the monitoring and research efforts at the MVO in the area of seismology.

Qualifications are listed at <http://sta.uwi.edu/jobs/details.asp?view=&id=570&fontSize=>, and include experience in seismology and seismic monitoring, authorship of scientific publications, and contributions that have advanced the field of volcano seismology. Completion of a Ph.D. is desirable, but not required. The post is offered on a three year fixed term, full-time basis with the option of extension.

Applicants should follow the procedure outlined at <http://sta.uwi.edu/jobs/procedure.asp?fontSize=> to be considered. If you have additional questions about the position, please contact Richard Robertson at 868-662-4659 or email: Richard.Robertson@sta.uwi.edu.

Summer of Applied Geophysical Experience (SAGE) 2010 -The SAGE program is a three-week graduate and advanced undergraduate course of instruction and research in exploration geophysics based in Santa Fe, New Mexico, USA. We acquire, process and interpret reflection/refraction seismic, MT/EM, GPR, gravity & magnetics data at a shallow archeological site and at the sedimentary basin scale in the Rio Grande rift. The Los Alamos branch of the Institute of Geophysics and Planetary Physics (IGPP) is sponsoring SAGE for its 28th year. The core program (all students) will be held Sunday, June 20 (arrival on Saturday, June 19), through Sunday, July 11, 2010. The cost will be \$450, of which \$100 is due with the application. International applicants: please e-mail georgia@lanl.gov for payment instructions.

We particularly encourage applications from qualified:

- 1) students who are U. S. citizens or Permanent Residents (PR) who will have completed their *junior* year and the requisite physics and math before SAGE,
- 2) U. S. *graduate* students in all stages of their careers, and
- 3) International students and Professionals.

Continued support from the U. S. **National Science Foundation Research**

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Experience for Undergraduates (REU) program will allow us to extend SAGE extra days for undergraduate students who are U. S. citizens/PR. For students qualifying as US/PR undergraduates, SAGE will begin on Thursday, June 17 (arrival on Wednesday, June 16). For these students, stipend and travel support will be automatic if accepted, and the \$450 fee will be waived. For *all* students, SAGE will extend through evening dinner on Sunday, July 11, 2010. Departure will be Monday morning, July 12, for most students.

Students should have a quantitative background and some introduction to geophysics, though they need not be geophysics majors. We particularly welcome math/physics majors and other students considering careers in geophysics. As an example, students should have successfully completed a minimum of one year (two semesters or three quarters) of physics (through Electricity & Magnetism) and a minimum of three semesters of calculus (four preferred). Structural geology and/or introductory geophysics are recommended but not required.

Please note that the application deadline for SAGE 2010 is 5:00 PM MDT on Friday, March 26. Evaluations will begin the following week. We require a letter of interest, two references, proof of insurance, and complete transcripts (informal OK). **See the SAGE web site for application and reference forms, and more detailed information.**

If you have questions or need more information, please call the IGPP office at (505) 663-5291 or e-mail Georgia georgia@lanl.gov. For further details and a description of the program, please refer to <http://www.sage.lanl.gov>.

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/.

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.

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 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

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E-mail: heikki.seppa@helsinki.fi
Homepage: <http://www.helsinki.fi/science/palaeoclim/>

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/>

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, and 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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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

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.

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.

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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 (lepenec@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.

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