GEOBULLETIN

OCTOBER 31ST 2014

*GeoBulletin is distributed weekly, by E-mail. Contributions are requested!
If you have a news item, a request, an announcement etc. email it to geodept@geology.wisc.edu or leave it at the office, Room 225 by Noon on Wednesday.

WEEKS LECTURE – FALL 2014

Date	Speaker	Institution	Host

WEEKS LECTURE

Jay Zambito
WGNHS

Oct 31st2014, Friday, 3:30 PM, Room AB20 ~ Weeks Hall

Frac Sand and Related Natural Resources in Wisconsin

Wisconsin has some of the best frac sand in the world, and since 2011 the state has seen a large increase in frac sand mines, processing plants, and rail loading facilities. This talk will provide information on what frac sand is, how it is used, why and how it is being mined in Wisconsin, its connection to other natural resources, and research being

undertaken at the WGNHS related to frac sand.			
7-Nov-14	**Jessi Meyer**	**G360 / Univ. of Guelph**	**Cardiff (F)**
14-Nov-14	**Francis Macdonald**	**Harvard University**	**Peters (F)**
21-Nov-14	**James Eldrett**	**Shell**	**Meyers(F)**
5-Dec-14	**Larry Band**	**UNC-Chapel Hill (GSA Birdsell-Dreiss Distinguished Lecturer)**	**Wang/Bahr**
12-Dec-14	**NONE (AGU)**		

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JOB OPENINGS:

- Employment/Research Opportunities at the Wisconsin Geological and Natural History Survey
- Lab Manager at Victoria University of Wellington
- Osu Boone Pickens School of Geology -Full Time Geochemistry Laboratory Coordinator
- Petrology-Economic Geology Position, California State Univ Chico
- Tenure-Track Faculty Position – Sedimentary Geology: Sedimentary Basin Analysis, Sedimentology and Stratigraphy -Department of Geosciences- Western Michigan University
- PhD-project in soil science: ‚Mechanistic understanding of soil functions by submicron scale analyses with NanoSIMS'
- Tenured or Tenure-Track Professor Position in Petrology - UT Austin
- The Department of Earth Sciences at IUPUI has an immediate opening for a full-time position as instrumentation/academic specialist.
- The Department of Earth Sciences at IUPUI invites applications for a tenure-track faculty member at the Assistant Professor
- Dolan Integration Group (DIG) has immediate openings for a Stable Isotope Laboratory Technician and Project Data Technician.
- The Department of Earth Sciences at Dalhousie University (Halifax, Nova Scotia, Canada) is accepting applications for two positions,

- Postdoctoral Scholar in stable isotope geochemistry, California Institute of Technology
- Five positions in Geology in University of Brunei Darussalam
- Tenured or Tenure-Track Professor *in Igneous and/or Metamorphic Petrology*
- Environmental biogeochemistry/Geobiology—Dartmouth College

JOB OPENINGS:

Employment/Research Opportunities at the Wisconsin Geological and Natural History Survey

As part of ongoing geologic mapping projects in Wisconsin, the WGNHS is recruiting undergraduate geology majors (or recent graduates) to participate in stratigraphic, sedimentological and geochemical studies of new bedrock drill cores and field samples, and compilation of subsurface datasets. See below for two different ways to get involved:

1) Lab Assistant *(Student Employee or Limited Term Employee, $10/hr min., 30-40 hrs/week, 6 months)***:**

Responsibilities of this position include processing, sampling and archiving geologic materials at the WGNHS Research Collections and Education Center in Mount Horeb. Some specific tasks involve: creating powdered samples for carbon isotope analysis, handheld XRF analysis, sample dissolution and heavy liquid separation for conodont biostratigraphy.

Please contact Pat McLaughlin (patrick.mclaughlin@wgnhs.uwex.edu 608-262-8658) for more details.

2) Directed Study Credit *(with the possibility for developing the research into a Senior Thesis Project)***:**

Research opportunities exist in stratigraphic, sedimentological and geochemical study of Wisconsin Paleozoic units associated with ongoing mapping efforts. Studies include Devonian paleoecology, Silurian reef trends on the margin of the Michigan Basin, sequence stratigraphy of Upper Cambrian frac sand units, depositional and tectonic history of Precambrian quartzites, and more.

Please contact Jay Zambito (jay.zambito@wgnhs.uwex.edu 608-262-3385) for more details.

These positions provide practical experience in a variety of areas important to employers in natural resource development and environmental studies, including: rock description, strategic sampling, data analysis, geologic mapping, etc. This is also a great way to learn about possible employment opportunities with the WGNHS as a field assistant or drill site geologist for next summer's field season.

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Lab Manager at Victoria University of Wellington

We have an exciting opportunity for someone with both research and ICP instrument experience to join the School of Geography Environment and Earth Sciences as Laboratory Manager. The position is full-time and permanent, with the successful applicant helping to maintain and develop our world-class suite of geoanalytical instruments, while undertaking independent research in geochemistry. The applicant will have opportunities to submit research grants, attend conferences and publish papers in their discipline.

Victoria University of Wellington is New Zealand's #1 ranked university for research excellence and was also ranked first in New Zealand in Earth Sciences.

Information about the Geochemistry Laboratory can be found here:
http://www.victoria.ac.nz/sgees/research/facilities/geochemistry-lab
(Note - we will soon be installing a new top-of-the-line Resonetics 193 nm Excimer laser-ablation system in addition

to our suite of ICP instruments).

Information about the SGEES can be found here:http://www.victoria.ac.nz/sgees

For more information about the position, or to submit an application, go to:
http://www.victoria.ac.nz/about/careers/current-vacancies (Job Posting 314, Deadline for applications November 30th, 2014)

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Osu Boone Pickens School of Geology -Full Time Geochemistry Laboratory Coordinator

The Boone Pickens School of Geology at Oklahoma State University has an opening for a full time Laboratory Coordinator.

Duties: Day to day operation and maintenance of instrumentation for isotopic and geochemical analyses of geological and environmental samples. The major equipment includes a Thermo Delta V Plus IRMS interfaced with an EA and a TC/EA, 2 multipurpose vacuum lines, a PerkinElmer Optima™ 2000 DV Inductively Coupled Plasma/Optical Emission Spectrometer, a Dionex Ion Chromatography System (ICS-3000), a Shimadzu 20A HPLC, a Perkin Elmer Clarus 500 Gas Chromatograph, a Perkin Elmer Autosystem XL Gas Chromatograph, a UIC Inc. CM 5014 coulometer, a LECO SC632 TOC and S Analyzer and an ICP-MS to be purchased in the fall. The individual will oversee installation and receive training for new equipment, assist in developing analysis methods, and train students and researchers to run samples. The individual should have knowledge of sample analysis, processing, and reporting of data. We are interested in an individual who can analyze gases, liquids and solids of geological and environmental relevance.

Qualifications: We desire an individual with a Bachelor's degree (PhD preferred) in geological sciences (or a closely related scientific or engineering field). This individual should have experience in operating instruments, managing a lab, working with students, and should be well versed in software operation and minor programing. The individual should be highly committed, of high personal integrity, have excellent written and oral communication skills, and be able to contribute to scientific papers and proposals.

More information about the Boone Pickens School of Geology can be found on the web at http://geology.okstate.edu/; more information about the geochemistry facilities can be found under the 'Geochemistry Laboratory' heading at http://geology.okstate.edu/researchfacilities/ research-facilities.

Please submit application, a cover letter, CV/resume, detailed description of previous laboratory experience, and names and contact information for three scientists. Qualified applicants please apply online at https://jobs.okstate.edu; if assistance is needed, contact OSU Human Resources at 405-744-7401. Position subject to availability of funds. Early start date is October 29, 2014.

Oklahoma State University is an Affirmative Action/Equal Opportunity/E-verify employer committed to diversity and all qualified applicants will receive consideration for employment and will not be discriminated against based on race, color, religion, sex, sexual orientation, gender identity, national origin, disability or protected veteran status. OSU is a VEVRAA Federal Contractor and desires priority referrals of protected veterans for its openings. OSU Stillwater is a tobacco-free campus

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Petrology-Economic Geology Position, California State Univ Chico

Petrology or Economic Geology: The Department of Geological and Environmental Sciences at California State University, Chico is searching for a tenure track Assistant or Associate Professor to start August, 2015. We seek an enthusiastic Petrologist or Economic Geologist to contribute to the hard-rock foundation of our B.S. Geology and M.S.

Geoscience programs. The new faculty member will join nine full-time faculty, additional collaborative faculty in other departments, and a growing team of part-time faculty with diverse talents. Chico's location provides diverse teaching and research opportunities for hard rock petrology with nearby access to a variety of metamorphic and igneous terrains as well as active and historic mining districts. The position requires a Ph.D. in Geology or equivalent field. The full position announcement and application information are available athttp://www.csuchico.edu/geos/documents/Petrology_Position.pdf.
Review of applications will begin on November 14, 2014 and continue until the position is filled. EOE/M/F/VET/DIS

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Tenure-Track Faculty Position – Sedimentary Geology: Sedimentary Basin Analysis, Sedimentology and Stratigraphy -Department of Geosciences- Western Michigan University

The Department of Geosciences at Western Michigan University is a growing center for geologic and environmental research, and invites applications for a tenure-track faculty position in Sedimentary Geology; with emphasis in sedimentary basin analysis, sedimentology, and/or stratigraphy/sequence stratigraphy beginning August 2015. The position will be filled at the Junior Faculty level (Assistant/Associate Professor). Candidates should have a strong record of research and teaching, and must have received their Ph.D. in Geology, or a related field, at the time of appointment. The successful candidate will assist in enhancing the diversity on campus through demonstrated commitment to diversity and inclusion.
The successful candidate expected to establish a vigorous externally-funded research program in the field of Sedimentary Geology is central to the successful applicant's professional responsibilities. Professional responsibilities also comprise teaching undergraduate and graduate classes including, but not limited to: Historical Geology, undergraduate and graduate courses in sedimentology and stratigraphy. Industry experience related to subsurface geology is advantageous since this experience has been important in attracting and supervising graduate students. The Department has a strong tradition of both applied and basic Geosciences research highlighted by work in the areas of Environmental Geology/Hydrogeology, Geochemistry/Isotope Geochemistry, Tectonics, Remote Sensing, and Sedimentary Geology/ Sedimentary Basin Analysis. Research with a focus on applied geosciences through the years in Michigan has resulted in the development of the Michigan Geological Repository for Research and Education (MGRRE), the premier subsurface geological research and data repository for studies related to the Michigan basin, and the recent transfer (through legislative initiative) of the Michigan Geological Survey to Western Michigan University.
The Department of Geosciences at Western Michigan University (one of the top-100 public universities in the United States) is fully committed to the priorities of a "discovery driven, learner centered, and globally engaged" university. The department is one of the most research active units at WMU, has a substantial student population, confers BS, Masters and PhD degrees, and supports the general education mission of the College of Arts and Sciences and the University.
The Carnegie Foundation for the Advancement of Teaching has placed WMU among the 76 public institutions in the nation designated as research universities with high research activities. Please visit www.wmujobs.org. The appointment process at Western Michigan University requires that each applicant submit a comprehensive vita or set of placement credentials and arrange for the transmittal of at least three recent letters of recommendation. Expected start date is Fall 2015. Open until filled. WMU is an Affirmative Action/Equal Opportunity Employer consistent with applicable Federal and State Law. All qualified applicants are encouraged to apply.

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PhD-project in soil science: Mechanistic understanding of soil functions by submicron scale analyses with NanoSIMS'

We offer a 3-year PhD-position at the Chair of Soil Science of the Technische Universität München (www.tum.de / www.soil-science.com) within a DFG-funded project. The group of Prof. Ingrid Kögel-Knabner is located at Freising-Weihenstephan, nearby Munich in southern Bavaria. The announced position includes a salary according to TV-L E13 (65%), corresponding to the German TV-L system (Tarifvertrag für den Öffentlichen Dienst der Länder). The anticipated starting date is January or February 2015.

Description:

Soils are highly heterogeneous structures in which organic and inorganic as well as living and non-living building blocks are interacting to form biogeochemical interfaces. While processes at these interfaces are occurring at the micro- or submicron-scale, they are reasoned to influence the behaviour of soils at the global scale. Consequently, analytical methodologies with a high resolution are required in order to investigate these processes with the final goal to mechanistically understand BGI formation. Among spectroscopic methodologies nano scale secondary ion mass spectroscopy (NanoSIMS) is a relatively young technique and has only been used in soil science during the last decade.

While NanoSIMS measurements in soils are currently providing excellent qualitative data on various soil processes, a leap towards producing quantitative data remains to be made. For approaching this topic we aim to combine NanoSIMS analyses with atomic force microscopy (AFM) in order to enable scaling to bulk scale measurements, such as C/N analyses or nuclear magnetic resonance (NMR) data. Samples for these experiments will range from simple laboratory microcosm systems in the beginning to soils from field experiments in a later stage of the project.

This position gives an opportunity to use cutting edge technologies, such as NanoSIMS and AFM, in an internationally renowned group focusing on the fate and stabilisation of soil organic matter.

Requirements:

Applicants should have a M. Sc. degree in physics, chemistry, geosciences, geoecology, biology, environmental sciences or a related discipline. Candidates with experience in microscopic techniques like secondary ion spectroscopy, epi-fluorescence, scanning and/or transmission electron microscopy (SEM, TEM) are highly welcome. Experience with sample preparation and (geo-) statistical modelling approaches will be highly beneficial. The candidate should be highly motivated, team-oriented and willing to work with advanced analytical techniques.

Applications:
A single pdf-file including letter of motivation, a CV, the contact data of 2 referees, and a statement of research interests should be sent by email to Dr. Christian Schurig (christian.schurig@wzw.tum.de) until November 24th 2014. Evaluation of the application will start soon after the deadline. For questions concerning your application feel free to contact christian.schurig@wzw.tum.de.

Tenured or Tenure-Track Professor Position in Petrology - UT Austin

The Department of Geological Sciences in the Jackson School of Geosciences at The University of Texas at Austin seeks to hire a faculty member in the field of igneous and/or metamorphic petrology. We seek an outstanding scientist who will establish an innovative, world class, externally funded research program in the petrological evolution

of the Earth's crust and/or mantle. The field of interest is open, but preference will be given to candidates who would complement and interact with our existing strengths in structural and metamorphic evolution of the lithosphere, magmatic processes, and/or mantle dynamics.

We seek a candidate who will take advantage of the existing geochemical analytical capabilities of the Jackson School, and in particular the electron microprobe, scanning electron microscopes, laser ablation single and multi collector ICP-MS, TIMS, stable isotope laboratories, and High Resolution Computed X-Ray Tomography facility, as well as interact with and possibly utilize the existing experimental petrology and high-pressure mineral physics laboratories. The search is open rank, with a preference for those at the Assistant Professor level. A Ph.D. is required by the **expected start date (August 22, 2015)**.

The Department of Geological Sciences is part of The Jackson School of Geosciences (JSG), which also includes two research units, the Institute for Geophysics and the Bureau of Economic Geology. The JSG is home to more than 190 research scientists and faculty members, and one of the largest combined graduate and undergraduate enrollments of any major Earth science program in the country. At JSG, petrology is a part of the Solid Earth and Tectonic Processes research theme and the Petrology and Mineral Physics discipline.

Review of applications will begin December 31, 2014, and continue until the position is filled. **All interested applicants should submit a cover letter, CV, research statement, teaching statement, and complete contact information for three letters of reference via e-mail to dgs@jsg.utexas.edu.** Questions regarding the search may be addressed to the head of the search committee, **Dr. James Gardner, at gardner@jsg.utexas.edu**.

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The Department of Earth Sciences at IUPUI has an immediate opening for a full-time position as instrumentation/academic specialist. The Instrumentation and Academic Specialist will manage research instrumentation, provide departmental laboratory safety compliance, and support teaching. The primary purpose of this position is to provide assistance to the Department and faculty through oversight of the Earth Science research infrastructure, with particular focus on managing and maintaining the efficient operation of the Department's instruments (e.g. GCs, HR-ICP-MS, GC-MS, gas-source irMS, ICP-ES, CHN analyzer, and computer interfaces). The instrumentation support provided by the specialist will include handling all of the maintenance, training and scheduling for both a new and existing XRD shared among multiple departments. The Academic Specialist will also help to provide general laboratory research support, such as user training and overseeing sample preparation and analyses as well as troubleshooting and maintenance of other instruments. Laboratory support also includes ensuring departmental and building safety by serving as laboratory safety coordinator. In addition, this position will provide teaching support including maintaining the rock and mineral collections for course instruction as well as helping students to coordinate laboratory and field activities. Finally, the Academic specialist may be responsible for providing general departmental support by performing administrative and other miscellaneous tasks such as coordinating maintenance of vehicles, equipment and property. This is a full-time position, renewable on a 12-month basis. Analytical and instrumentation experience is required. Applicants must have an M.S. degree or higher in earth science, environmental science, chemistry, biology or a related field. Electronics, mechanical, and gas line plumbing expertise is desirable.

Applicants should include a cover letter, resume and the names and contact information of at least three people. Applicants should submit these materials, in a single PDF file, to the Academic/instrumentation specialist Search Committee at cjchouin@iupui.edu. Applications for this position may also be addressed to this committee and mailed to the Department of Earth Sciences, IUPUI, 723 West Michigan Street, Indianapolis, IN, 46202-5132. Review of applications will begin October 27th and continue until position is filled.

We are a growing department that offers undergraduate degrees in geology and environmental science, the M.S. in geology, and an interdisciplinary Ph.D. degree in Applied Earth Sciences (http://earthsciences.iupui.edu/). The department has 12 faculty with active research programs in aqueous, stable isotope and microbial geochemistry, biogeosciences, paleoclimatology and global change, medical geology, terrestrial surface and hard rock geology, planetary geology, glacial geology and geomorphology, hydrology, and remote sensing. State-of-the-art geochemistry labs are equipped with stable isotope ratio mass spectrometers, a cavity ring down spectrometer, GC-MS, ICP-MS, ICP-OES, electrochemical equipment, chromatographs (IC, GC, and HPLC), and a multisensor core scanner. IUPUI is home to the Integrated Nanosystems Development Institute (http://indi.iupui.edu/) that houses modern SEM and XRD facilities shared by Earth Sciences faculty.

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The Department of Earth Sciences at IUPUI invites applications for a tenure-track faculty member at the Assistant Professor level with experience in mineralogy and/or nanoparticle sciences as applied to solid earth systems or environmental geosciences and human health. A Ph.D. in earth sciences or closely related field received prior to August 2015 is required and postdoctoral experience is desirable. Candidates should have a strong research record, an interest in multidisciplinary research, the ability to initiate and sustain an externally funded research program, and a commitment to both undergraduate and graduate mineralogy education. Field-based research and teaching programs are important and preference will be given to individuals who can interface with interdisciplinary research teams in earth sciences as well as chemistry, biology and public health. Applicants for the tenure track position should submit a letter of application, curriculum vitae, statement of research interests, statement of teaching interests, and the names and contact information of at least four references. Interested individuals are encouraged to submit their application as a single PDF file to ibsz100@iupui.edu.

We are a growing department that offers undergraduate degrees in geology and environmental science, the M.S. in geology, and an interdisciplinary Ph.D. degree in Applied Earth Sciences (http://earthsciences.iupui.edu/). The department has 12 faculty with active research programs in aqueous, stable isotope and microbial geochemistry, biogeosciences, paleoclimatology and global change, medical geology, terrestrial surface and hard rock geology, planetary geology, glacial geology and geomorphology, hydrology, and remote sensing. State-of-the-art geochemistry labs are equipped with stable isotope ratio mass spectrometers, a cavity ring down spectrometer, GC-MS, ICP-MS, ICP-OES, electrochemical equipment, chromatographs (IC, GC, and HPLC), and a multisensor core scanner. IUPUI is home to the Integrated Nanosystems Development Institute (http://indi.iupui.edu/) that houses modern SEM and XRD facilities shared by Earth Sciences faculty.

Applications for this position may also be mailed to the committee at Department of Earth Sciences, IUPUI, 723 West Michigan Street, Indianapolis, IN, 46202-5132. Review of applications for the mineralogist position will begin December 1, 2014 and continue until the position is filled.

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Postdoctoral Scholar in stable isotope geochemistry, California Institute of Technology

We seek applicants for a postdoctoral fellowship in stable isotope geochemistry in the Division of Geological and Planetary Sciences at the California Institute of Technology. The successful applicant will conduct experiments examining the kinetics of isotope exchange in organic compounds and analyze 'clumped' and position-specific isotopic compositions of experimental products and related natural materials using prototype high-resolution gas source isotope ratio mass spectrometers. Preference will be given to applicants with significant hands-on experience working with high performance mass spectrometers of any kind, and/or experience designing and performing experiments at high

temperature and pressure. Experience with light-element stable isotopes and/or organic chemistry is desirable but of secondary importance.

The successful applicant must have received a Ph.D. degree before beginning the appointment. Applicants able to start by January 5th, 2015, or as soon as possible thereafter, are preferred. The initial appointment will be for 1 year, with expectation of renewal for a second year following a progress review.

Interested applicants should send a CV, publication list, and the names and contact information for 3 references to:

John Eiler
Division of Geological and Planetary Sciences
California Institute of Technology
Pasadena, CA
91125
eiler@gps.caltech.edu

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Dolan Integration Group (DIG) has immediate openings for a Stable Isotope Laboratory Technician and Project Data Technician.

Located in Boulder, Colorado, DIG is a geochemical consulting and laboratory services company providing innovative solutions to companies and individuals actively exploring, developing or producing unconventional oil & gas resources. Our Oil and Gas clients range from smaller independent operators to major integrated companies. DIG also serves environmental firms and government agencies. DIG runs a state-of-the-art GC-IRMS laboratory for the analysis of hydrocarbon gases.

The positions in brief:
Stable Isotope Laboratory Technician – The position entails daily operation of the GC-IRMS laboratory. Duties include, but are not limited to, sample analysis, instrument maintenance and troubleshooting, data management, QA/QC, and data reporting.

Project Data Technician - responsible for day-to-day project data entry, data movement and data deliverables. Projects and tasks may include but are not limited to data collection and integration, map production, GIS spatial analysis and database manipulation.

Position details, desired qualifications, and application instructions can be found on our careers page:
http://www.digforenergy.com/about-dig/careers/

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The Department of Earth Sciences at Dalhousie University (Halifax, Nova Scotia, Canada) is accepting applications for two positions, as follows:

1. Chair of Department (Associate or Full Professor, with tenure); initially a 5-year term, renewable on review. All areas of expertise will be considered, but experience in Marine Geoscience is an advantage. Applications will be reviewed starting 30 November; appointment date is 1 July 2015.

2. Assistant Professor in Geophysics, Sedimentology, or Geochemistry (probationary tenure-track). This is a reposting of a position advertised earlier in the year. We have been asked to readvertise the position with a new starting date of 1 July 2016. Applicants for the previous ad will be considered at their request. Applications will be reviewed starting 15 March 2015; appointment date is 1 July 2016.

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Five positions in Geology in University of Brunei Darussalam

The Physical and Geological Sciences, Faculty of Science, University of Brunei Darussalam seek five new Faculty members in Engineering Geology, Marine Geology, Hydrogeology, Environmental Geology and Reservoir Modelling. For details regarding the positions, please see http://www.ubd.edu.bn/general/careers/faculty-of-science/ or contact Head of Department Dr Basilios Tsikouras at basilios.tsikouras@ubd.edu.bn.
Apologies for the strict deadline, but we think that application after that will be also accepted

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Tenured or Tenure-Track Professor *in Igneous and/or Metamorphic Petrology*
Department of Geological Sciences ◆ Jackson School of Geosciences
The University of Texas at Austin
The Department of Geological Sciences in the Jackson School of Geosciences at The University of Texas at Austin seeks to hire a faculty member in the field of igneous and/or metamorphic petrology. We seek an outstanding scientist who will establish an innovative, world class, externally funded research program in the petrological evolution of the Earth's crust and/or mantle. The field of interest is open, but preference will be given to candidates who would complement and interact with our existing strengths in structural and metamorphic evolution of the lithosphere, magmatic processes, and/or mantle dynamics. We seek a candidate who will take advantage of the existing geochemical analytical capabilities of the Jackson School, and in particular the electron microprobe, scanning electron microscopes, laser ablation single and multi collector ICP-MS, TIMS, stable isotope laboratories, and High Resolution Computed X-Ray Tomography facility, as well as interact with and possibly utilize the existing experimental petrology and high-pressure mineral physics laboratories. The search is open rank, with a preference for those at the Assistant Professor level. A Ph.D. is required by the **expected start date (August 22, 2015)**.
The Department of Geological Sciences is part of The Jackson School of Geosciences (JSG), which also includes two research units, the Institute for Geophysics and the Bureau of Economic Geology. The JSG is home to more than 190 research scientists and faculty members, and one of the largest combined graduate and undergraduate enrollments of any major Earth science program in the country. At JSG, petrology is a part of the Solid Earth and Tectonic Processes research theme and the Petrology and Mineral Physics discipline.
Review of applications will begin December 31, 2014, and continue until the position is filled. **All interested applicants should submit a cover letter, CV, research statement, teaching statement, and complete contact information for three letters of reference via e-mail to dgs@jsg.utexas.edu.** Questions regarding the search may be addressed to the head of the search committee, **Dr. James Gardner, at gardner@jsg.utexas.edu**.

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Environmental biogeochemistry/Geobiology—Dartmouth College

The Department of Earth Sciences at Dartmouth College invites applications for a junior rank tenure-track position in the general areas of biogeochemistry and geobiology. We especially welcome applications from candidates with research interests that include microbially-mediated biogeochemical interactions in processes of mineralization, weathering, and sequestration of contaminants; hydrocarbon formation and degradation; biogeochemical cycling in fluvial and/or cold environments, including river-channel, floodplain, and lacustrine ecosystem response to environmental change. Particular attention will be given to candidates who combine a focus on understanding

fundamental processes with state-of-the-art laboratory and/or field research programs that complement and contribute to ongoing research activities in the Department as well as in Dartmouth's Geisel School of Medicine and Thayer School of Engineering. The successful candidate will continue Dartmouth's strong traditions in graduate and undergraduate research and teaching. Teaching responsibilities consist of three courses spread over three of four ten-week terms.

The Department of Earth Sciences is home to 11 tenured and tenure-track faculty members in the School of Arts and Sciences, and enjoys strong Ph.D. and M.S. programs and outstanding undergraduate majors. To create an atmosphere supportive of research, Dartmouth College offers new faculty members grants for research-related expenses, a quarter of sabbatical leave for each three academic years in residence, and flexible scheduling of teaching responsibilities.

Dartmouth College, a member of the Ivy League, is located in Hanover, New Hampshire (on the Vermont border). Dartmouth has a beautiful, historic campus located in a scenic area on the Connecticut River. Recreational opportunities abound all year round. To learn more about Dartmouth College and the Department of Earth Sciences, visit http://www.dartmouth.edu/~earthsci.

To submit an application, send curriculum vitae, statements of teaching and research interests and objectives, reprints or preprints of up to three of your most significant publications, and the name, address (including street address), e-mail address and fax/phone numbers of at least three references to:

Environmental Biogeochemistry/Geobiology Search Committee
Department of Earth Sciences
Dartmouth College 6105 Fairchild Hall
Hanover, NH 03755
e-mail: earth.sciences@dartmouth.edu

Applications received by November 7, 2014 will receive first consideration. The appointment will be effective July 1, 2015.

Dartmouth is an equal opportunity/ affirmative action employer with a strong commitment to diversity. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, persons of color, persons with disabilities, veterans or any other legally protected group.

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