

GEOBULLETIN
OCTOBER 24TH 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
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WEEKS LECTURE



Tomochika Tokunaga
The University of Tokyo

**Oct 24th2014, Friday, 3:30 PM, Room AB20 - Weeks
Hall**

**Land subsidence and subsurface environmental changes in the Tokyo Metropolitan
Area, and possible groundwater management for urban sustainability**

The subsurface environments at the Tokyo Metropolitan Area have been changing dramatically in accordance with the change of groundwater condition and the continuous increase and heavy usage of underground space. Because of the complex interaction between the change of the groundwater environments and human activities, we have

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experienced a variety of problems which have very often affected negatively to our society. This presentation describes the temporal changes of the groundwater environments and associated problems at the Tokyo Metropolitan Area from 1920s until present. Then, the new techniques which are considered to be usable for strategic management of groundwater resources/subsurface environment are presented. Transferring our experiences at the Tokyo Metropolitan Area to presently developing and expanding urban cities in the similar geological/hydrogeological settings is crucial to achieve sustainable developments of urban geosphere.

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.

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7-Nov-14	Jessi Meyer		Cardiff (F)
14-Nov-14	Francis Macdonald	Harvard University	Peters (F)
21-Nov-14			
5-Dec-14	Larry Band	UNC-Chapel Hill (GSA Birdsell-Dreiss Distinguished Lecturer)	Wang/Bahr
12-Dec-14	NONE (AGU)		

JOB OPENINGS:

- 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

- PhD position in magmatic-hydrothermal geochemistry
- Postdoc positions available at Lawrence Livermore National Laboratory
- Reposting of advertisement Oregon State University--Earth Systems History, Assistant Professor
- Tenure-track Assistant Professor-Mineralogy/Petrology-Western Washington University
- Temple University-Tenure Track Positions In Remote Sensing and Geomaterials
- AGI/Schlumberger Fellowship in Geoscience Communication
- Faculty Position in Solid Earth Science – University of Minnesota, Duluth

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JOB OPENINGS:

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.**

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

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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.

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.

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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

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.

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

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)**.

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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.

[Faculty position available - The Department of Geology and Geological Engineering at the South Dakota School of Mines & Technology](#)

Assistant, Associate or Professor -Geology & Geological Engineering

The Department of Geology and Geological Engineering at the South Dakota School of Mines & Technology invites applications for a nine-month tenure track position in Geological Engineering with an expertise in groundwater. The position will be filled at the Assistant, Associate, or Full Professor level. An earned doctorate in geological engineering or a closely related engineering discipline is required by the anticipated August 2015 start date. Preference will be

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given to candidates that are, or are eligible to become, licensed professional engineers. The successful candidate will develop and teach undergraduate and graduate courses in groundwater and related fields, develop and maintain a strong externally funded research program that complements department strengths, and advise undergraduate and graduate students. The department offers B.S., M.S., and Ph.D. degrees in Geology and Geological Engineering, and an M.S. degree in Paleontology. Nine-month salary range is commensurate with background and experience. For questions about this position, contact J. Foster Sawyer, Search Chair, at Foster.Sawyer@sdsmt.edu.

Established in 1885, the South Dakota School of Mines & Technology is a technological research university located in Rapid City, South Dakota. The School of Mines is a public university offering bachelor's, master's, and doctoral degrees in engineering and science. Known for our academic rigor, we maintain a 14:1 student-to-faculty ratio. Our students benefit from immersive learning experiences including undergraduate research, co-ops/internships, and numerous nationally competitive engineering teams. Our graduates have a 98% placement rate and an average starting salary of \$65,600. Our Research Programs are concentrated in four areas: Energy and Environment; Materials and Manufacturing; STEM Education; and Underground Science. The School of Mines enrolls more than 2,700 students from 45 states and 39 countries. Rapid City is the state's second largest city (with an urban population of 70,812 and metropolitan population of 141,431) and is nestled at the foot of the beautiful Black Hills. Mount Rushmore, the Badlands National Park and Crazy Horse Memorial are all within an hour of the University. Rapid City enjoys a relatively mild climate and offers year-round recreational opportunities, including, hiking, bicycling, skiing, snowboarding, fishing, and hunting, to name a few. For more information about the School of Mines and Rapid City, visit: www.sdsmt.edu and <http://visitrapidcity.com/>.

The School of Mines is committed to recruiting and retaining a diverse workforce and offers an excellent comprehensive benefits package including paid medical and life insurance for our employees, as well as medical, dental and vision coverage for spouses and dependents; retirement plans; paid holidays; and a generous vacation and sick day allowance. Individuals interested in this position must apply online at <http://www.sdsmt.edu/employment>. Human Resources can provide accommodation to the online application process and may be reached at (605) 394-1203. Review of applications will begin January 14, 2015, and will continue until the position is filled. Employment is contingent upon completion of a satisfactory background investigation.

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.

PhD student opening at the University of Bern in magmatic-hydrothermal geochemistry

Applications are invited for a PhD position that aims at quantifying the element distribution and Mo isotope fractionation between residual melt and exsolving hydrothermal fluids employing miarolitic cavity samples from subvolcanic intrusions. Focus is on the Torres del Paine igneous system, Patagonia, that documents - at excellent outcrop conditions - diverse features of fluid saturation. Central will be the analysis of fluid and melt inclusions, and minerals, employing laser-ablation ICP-MS, electron probe and possibly ion probe, and Mo isotope ratio determination uses MC-ICP-MS techniques. The data set of element distribution coefficients and isotope ratio fractionation factors will greatly improve our understanding on element enrichment processes at the magmatic-hydrothermal transition and shall provide a comprehensive assessment on redox-sensitive, heavy stable isotope fractionation processes at these hot temperatures. Such data are fundamental for better constraining how magmatic volatiles transport chemical components and isotopic signals between magmatic and hydrothermal environments. We seek a person with strong interest in petrology/hydrothermal geochemistry and analytical methods. An MSc in Earth Sciences and good communication skills in English are prerequisites. Experience with field work in rugged mountain terrains and fluid and melt inclusions is desirable. The Institute of Geological Sciences houses an electron probe (JEOL JXA8200), LA-ICP-MS, MC-ICPMS, TIMS, SEM-EDS and RAMAN, besides basic infrastructure. In-house research groups include those investigating rock-water interaction, metamorphic petrology and isotope geochemistry. Visit the institute at

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<http://www.geo.unibe.ch/english/index.htm>. The position is fully funded for three years, including benefits for social security. This PhD project forms part of a large, long-term research project in collaboration with the University of Lausanne (Switzerland). Applications should include a CV with details about research experience, educational and personal motivation to conduct this PhD project, abstract and graduation date (or planned date) of MSc thesis, and address of at least three referees who have agreed to provide references if requested. Send only complete applications as one pdf file, preferably by e-mail. Evaluation of applications will start on November 1st, 2014, and continue until filled. The project starting date should be January, 2015.

Contact and further information (preferably by e-mail):

Dr. Thomas Pettke
University of Bern,
Institute of Geological Sciences,
Baltzerstrasse 1+3,
CH-3012 Bern, Switzerland
Email pettke@geo.unibe.ch
www.geo.unibe.ch/people/pettke

Postdoc positions available at Lawrence Livermore National Laboratory

The Chemical Sciences Division at Lawrence Livermore National Laboratory is inviting applications to postdoctoral researcher positions for participation in two potential research projects.

The first project involves development of durable, high strength ceramic composites and cermets with mechanical properties that are tailored to a variety of applications (including cutting, grinding, and armor). Qualified candidates should have strong experimental skills and experience handling, consolidating, or sintering powders using powder mills, gas controlled furnaces, and large volume presses.

The second project involves the study of hydrogen diffusion and electrical conductivity in mantle minerals. Qualified candidates should have strong experimental skills and experience with gas controlled furnaces, and large volume presses. Experience measuring hydrogen in nominally anhydrous minerals using FTIR or SIMS is also highly desirable.

Please send inquiries to Dr. Josh Kuntz (kunt2@llnl.gov) or myself (dufrane2@llnl.gov). Further details and applications can be found at <https://careers.llnl.gov/> under posting # 12442. The positions are available immediately.

Posting of advertisement Oregon State University--Earth Systems History, Assistant Professor. For full consideration, apply by Nov. 3, 2014. GSA Annual Meeting contacts listed below

Earth Systems History, Assistant Professor: applications are invited by the College of Earth, Ocean, and Atmospheric Sciences at Oregon State University in Corvallis, Oregon. The position terms can be 9-month, 1.0 FTE (full time equivalent) faculty position, or 12-month position at 0.75 FTE. For either, grant funds can augment the university-provided salary. Conduct research and teach in the area of sedimentary geology, focusing on the use of pre-Quaternary sedimentary records as a basis for investigation of solid earth, oceanic, atmospheric, and surficial processes and interactions. Areas of expertise may include: paleoclimatology, past ocean and atmospheric chemistry and circulation, and tectonic and/or geodynamic influences on earth surface processes. Duties: teach undergraduate courses in earth history, stratigraphy and sedimentology, geology field methods, and graduate courses in area of specialty; establish an

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externally funded program of scholarly research; and college/university service. Requires a PhD geology, oceanography, or a closely related field; record of significant and innovative research that uses the sedimentary record to explore Earth Systems History; strong scholarly potential; potential for establishing a research program; potential to contribute to the teaching excellence in the undergrad/graduate programs; potential for mentoring; and proficiency in English. See **job posting:** <http://oregonstate.edu/jobs/> #0012926. For full consideration apply by 11/03/2014. Closing date: 12/15/2014.

Member of the Faculty Search Committee will be attending GSA Vancouver, Oct. 18-22, and can answer questions (Meet at OSU Geology Booth #245 in the Campus Connection area in the Exhibit Hall)

If interested in meeting, please contact

John Dilles dillesj@geo.oregonstate.edu
Eric Kirby eric.kirby@geo.oregonstate.edu

Tenure-track Assistant Professor-Mineralogy/Petrology-Western Washington University

Western Washington University invites applications for a tenure-track Assistant Professor starting September 2015, with research and teaching specialties in mineralogy or petrology. Western Washington University is a nationally recognized, public, masters-granting institution located in the Pacific Northwest at the base of the North Cascade Mountains. We seek a colleague whose research interests could include metamorphism and the dynamics of orogenic systems, low-temperature alteration processes, generation of ore deposits, or planetary geology. Required qualifications for the position include 1) a PhD in an appropriate Earth Science field at the time of appointment, 2) the ability to develop a high-quality undergraduate teaching program including courses in Mineralogy and Optical Petrography, and contribute to field courses such as Field Camp or Field Petrology, 3) the ability to establish an externally-supported research program, 4) the ability to involve students in research, 5) the ability to contribute to the graduate (MS) degree program, 6) ability to work with a diverse student body and 7) a demonstrated capacity to pursue important problems in the Earth sciences using field-based and quantitative techniques. Preferred qualifications include postdoctoral experience, college-level teaching experience in the courses listed above, ability to teach Introductory Geology, and potential to develop local field research projects. The ideal candidate will engage in collaboration within the Geology Department and the Advanced Materials Science and Engineering Center (AMSEC) and will enhance without duplicating existing departmental strengths in igneous petrology/volcanology, field geology, geomorphology, geophysics, tectonics, geoscience education, and planetary geology, as well as emerging directions in engineering geology and ore-forming systems. For more information see <http://geology.wwu.edu/dept/> and <http://www.wwu.edu/amsec/>.

Interested candidates must apply online. To see a full position description and log in to WWU's Electronic Application System for Employment (EASE), please go to <https://jobs.wwu.edu/JobPosting.aspx?JPID=6211>. Applications must include a cover letter outlining teaching and research experience and accomplishments with specific reference made to the required and preferred qualifications described above. The application should also include a C.V., graduate school transcripts, as well as goals and plans for teaching and research at WWU. The names and contact information for letters of reference from four persons familiar with the candidate's research and teaching must be provided; one of these references must be from outside the applicant's current institution. Review of all application materials will begin on January 5, 2015; position is open until filled. Questions regarding this position should be directed to the search committee chair, Liz Schermer (liz.schermer@wwu.edu) or the Geology Department chair, Bernie Housen (bernard.housen@wwu.edu).

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Temple University-Tenure Track Positions In Remote Sensing and Geomaterials

The Department of Earth and Environmental Science is entering a period of growth with a newly launched Ph.D. program. To achieve this growth, the department seeks to fill two tenure-track faculty positions to begin in August 2015. One of the positions will be in the area of REMOTE SENSING. A second position will be in the area of GEOMATERIALS. Exceptional candidates holding a Ph.D. are encouraged to apply at any level (assistant, associate, or full professor). Mentoring of undergraduate and graduate students and securing external funding are expected. Applicants must have a Ph.D. in a relevant science discipline.

REMOTE SENSING: We especially encourage applicants with a focus on the analysis of Earth using airborne or satellite remote sensing platforms, expertise in digital signal processing for geoscience applications, and the use of satellite data for understanding climate change. This appointment will complement existing expertise in geophysics, hydrogeology, structural geology, geomorphology, and planetary geology, and make use of the new high-performance computing cluster. Applicants should be able to teach undergraduate and graduate courses including Remote Sensing and Physical Geology.

GEOMATERIALS: Of particular interest are applicants with a focus on energy as well as earth science, and with expertise in mineralogy and petrology that crossover to material science. The candidate should investigate crystalline, glassy, or melt geomaterials with a goal of understanding the atomic-scale characteristics that lead to macroscopic properties in earth sciences. The individual is expected to use a combination of field or experimental based data collection and modeling approaches. This appointment will complement existing expertise on the properties of nano-minerals and geochemistry within EES as well as materials research conducted through super-computing, engineering, chemistry, and physics utilizing a variety of in place instrumentation and the newly formed Temple University Energy Frontier Research Center. Applicants should be able to teach undergraduate and graduate courses including Mineralogy and Petrology.

Applications should first email a letter of intent to the appropriate Search Committee Chair. REMOTE SENSING applicants should send a letter of intention to apply and any inquiries to **Alexandra Davatzes, Chair, Search Committee**, alix@temple.edu, whereas GEOMATERIALS applicants should email **Nick Davatzes, Chair, Search Committee**, davatzes@temple.edu. Applicants should upload a CV, statement of teaching goals, a research plan, names and addresses of at least three references, and selected reprints via the following website: <http://ees.cst.temple.edu/>. We request application material be submitted by **December 1, 2014**. Temple University is a state-related research-intensive institution with an undergraduate enrollment of more than 27,000 and nearly 10,000 graduate and professional students. More information about our department is available at <http://www.temple.edu/geology/>. Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community (AA, EOE, M/F/D/V). The department specifically encourages applications from women and minorities.

AGI/Schlumberger Fellowship in Geoscience Communication

The American Geosciences Institute is accepting applications for the AGI/Schlumberger Fellowship in Geoscience Communication. The successful candidate will play a leading role in AGI's Critical Issues program, a new initiative to make relevant geoscience information more accessible to decision makers at all levels. The program is supported through AGI's Center for Geoscience Education and Public Understanding.

The fellowship offers a superb opportunity to link the geoscience community and our understanding of the Earth to decision-making processes throughout the country.

Primary duties and responsibilities will include:

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- Developing geoscience-based content for the Critical Issues website, including fact sheets, webinars, and other information products
- Working with technical experts to ensure the accuracy and impartiality of information products
- Promoting the program's products and services to decision makers and geoscientists via meetings, webinars, conferences, social media, and other channels
- Providing input on the program's direction, planning, and communications strategy
- Providing regular status reports on fellowship activities and achievements

The fellowship is a 6- to 12-month appointment, based at AGI headquarters in Alexandria, VA. The fellowship carries a stipend of \$4,000 per month.

Qualifications

The successful candidate will be a highly creative communicator who is proficient in traditional and new media and can deliver geoscience information effectively and efficiently to targeted audiences. We seek applicants with excellent writing and graphical skills who have experience in web content development and social media, in addition to a broad geoscience background. Enthusiasm and team spirit are essential. Candidates should have completed or be currently pursuing a Master's or higher degree.

Application Procedures

Interested candidates should submit:

- Cover letter with the names and contact information of three references
- Brief statement of purpose, which should outline why you are interested in the fellowship, what you would bring to the fellowship, and what you hope to gain from the fellowship (maximum 1,000 words)
- Résumé or curriculum vitae

Please submit materials as a single Word document (.doc or .docx) or PDF (.pdf) using our online submission form. For more information please visit <http://bit.ly/AGISchFellowship>.

All application materials are due on October 26, 2014.

The starting date for the Fellowship will be based on the schedule of the successful candidate, but is expected to be in January or February 2015.

Inquiries only to cipinfo@agiweb.org. Please use the subject line "AGI/Schlumberger Fellowship."

AGI is an equal opportunity employer and especially welcomes applications from women and minorities.

Faculty Position in Solid Earth Science – University of Minnesota, Duluth

The [Department of Earth and Environmental Sciences](#) at the [University of Minnesota Duluth](#) anticipates hiring a new tenure-track faculty member to begin August of 2015. We seek a broadly-based earth scientist who will complement our existing teaching and research strengths in crustal geology, resources, surficial processes, sedimentology, paleoclimatology, hydrogeology, planetary geology, and geophysics. Fields of expertise may include, but are not limited to, mineral science, petrology, economic geology, fluid-rock interactions, geodynamics, tectonics, and early Earth history. This is a tenure-track faculty position with responsibility for teaching, research and service to the University. Appointment at the Assistant Professor level is preferred, but applicants with appropriate qualifications may be considered at the Associate Professor level.

Expected essential qualifications for the position are: 1) completion of a Ph.D. in earth science by July 1, 2015, from a regionally-accredited university or equivalent program; 2) expertise in mineral science, which may include mineralogy, petrologic applications of mineralogy, geochemistry, economic geology, or mineral physics; 3) potential

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for acquiring external research funding; 4) an established or emerging research publication record; 5) experience in teaching, which may include teaching assistantships; and 6) excellent written communication skills. Essential qualifications for an appointment as Associate Professor also include: 7) college- or university-level teaching experience; 8) a demonstrated record of scholarship in peer-reviewed publications; 9) scientific leadership and creativity; and 10) the proven ability to support the University's commitment to equity and diversity. Preferred qualifications for all candidates are expected to include an interest in interdisciplinary research, collaboration with individuals of diverse backgrounds, and in attracting undergraduate and graduate students who traditionally are underrepresented in the geosciences; candidates must also demonstrate excellent oral communication and interpersonal skills. Currently, our faculty teach three courses per year. The successful candidate will teach a core geology majors' course in Mineralogy, including optical mineralogy, plus other introductory- to graduate-level courses each year. The candidate will also be expected to develop an externally funded research program that involves both undergraduate and graduate students.

Duluth is a vibrant small city with exceptional outdoor, recreational and cultural opportunities. We offer BA and BS degrees in geological and environmental science, the MS degree in geology, and the PhD degree in earth sciences in cooperation with the University of Minnesota-Twin Cities campus. Detailed information about our undergraduate and graduate programs is available at www.d.umn.edu/dees/index.html. Opportunities exist to develop research collaborations with other faculty and researchers, and with the robust resource or environmental industries in the region, including a new University of Minnesota MnDRIVE-funded Initiative in Sustainable Mining at UMD (see <http://mndrive.umn.edu> and <http://www.d.umn.edu/scse/initiatives>).

Pending a formal job posting by the University, review of applications is expected to begin on January 5, 2015 and will continue until the position is filled. We anticipate that the position will be posted in the next couple of weeks. For further information regarding this position, please contact [Dr. John Goodge \(jgoodge@d.umn.edu\)](mailto:jgoodge@d.umn.edu), Chair of the Earth Science Faculty Search Committee. **Department faculty will be available at the GSA meeting in Vancouver to discuss this position, answer questions and provide information about our program; please contact Prof. Goodge directly if interested in scheduling a meeting time in Vancouver.**

The University of Minnesota is an equal-opportunity educator and employer, and we encourage individuals from underrepresented groups to apply.

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