

GEOBULLETIN
SEPTEMBER 26th, 2008

Our traditional department group photo will be taken at 12:30 (note new time) on Tuesday Sept 30 in the courtyard. Please gather at 12:25. It only takes about 5 minutes.

Everyone is invited: faculty, emeritus faculty, grad students and undergrad majors, all staff, post-docs, researchers, visiting faculty and scientists, etc.

If you are part of the Weeks family this year, please come.

Geobulletin is distributed weekly, on Friday by E-mail. Contributions are requested! Anything and everything (well almost) that you want to see in print. If you have a news item, a request, an announcement etc. email it to geodept@geology.wisc.edu. or leave it at the reception desk, Room 236 by noon on Wednesdays.

LECTURE SCHEDULE ---- All lectures (unless otherwise noted) are held on Fridays at 3:30 PM in AB20 (Laudon Lecture Hall). Coffee & cookies are served in the lobby starting at 3:15 PM.

FALL 2008 WEEKS LECTURE SCHEDULE

- September 26 ----- Reserve for Alumni event and BOV
- October 3 -----
- October 10 ----- Glenn Spinelli --- New Mexico Tech
- October 17 ----- John Tarduno --- University of Rochester
- October 24 ----- Donald Mkhonto - UW
- October 31 ----- Rick Law – VPI
- November 7 ----- Peter Mozely – New Mexico Tech
- November 14 ----- Steve Wojtal – Oberlin College
- November 21 ----- Joseph Licciardi --- University of New Hampshire
- November 28 ----- Thanksgiving Recess
- December 5 ----- David Deamer
- December 12 ----- Stephen Hasiotis
- December 19 -----

Dr. Heather Sheldon has a PhD opportunity for students completing their BS or MS degrees, working for CSIRO at the University or Western Australia.

PhD scholarship: Structural remobilisation of NiS deposits

Location: CSIRO Exploration & Mining and the University of Western Australia

Applications are invited for a CSIRO Postgraduate Scholarship in the research area "structural remobilisation of komatiite-hosted Nickel-sulphide deposits", a three year postgraduate appointment co-hosted by Dr Steve Barnes and Dr Heather Sheldon of CSIRO Exploration & Mining, and Professor Klaus Regenauer-Lieb and Dr Florian Fuisseis of the School of Earth and Geographical Sciences at the University of Western Australia (UWA). This PhD project will use microstructural analysis, experiments and numerical models to explore the remobilisation of komatiite-hosted NiS mineralisation into shear zones. The project will contribute to NiS exploration by improving our understanding of NiS remobilisation, and thus our ability to predict the location of remobilised deposits.

CSIRO is Australia's leading research organisation with over 6,500 staff located across the country. Our purpose is to deliver great science and innovative solutions for industry, society and the environment by igniting the creative spirit of our people. CSIRO recognises the need to link with Australian Universities to ensure that we have emerging talent in areas critical to Australia's future. CSIRO's Postgraduate Program provides enhanced opportunities in science and engineering for outstanding graduates enrolling each year at Australian tertiary institutions as full-time Post Graduates for research leading to the award of a PhD.

For further details or to apply please refer to

https://recruitment.csiro.au/asp/job_details.asp?RefNo=2008%2F1050

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POSITION OPENINGS:

- The Saskatchewan Isotope Laboratory, University of Saskatchewan, Canada, seeks a full-time isotope technician/analyst.
- A position open in the Department of Geosciences, University of Arkansas-Fayetteville for an assistant professor with emphasis in structural geology and tectonics.
- **TENURE-TRACK POSITION IN SEISMOLOGY--**Geophysical Institute, Geology & Geophysics Department
University of Alaska Fairbanks
- Applications are invited for a scientist to work within the Bloomsbury Environmental Isotope Facility (BEIF), a joint research facility of the Departments of Earth Sciences, Geography and Chemistry, University College London
- **JOIN KINROSS GOLD!**Grads can apply for the Generation Gold Program and gain valuable experience and training w/ attractive compensation and benefits. Summer internships are available for undergrads.
- 6 jobs to offer at the GFZ German Research Centre for Geosciences within a national wide project dealing with CO2 storage .
- The Department of Geosciences at Denison University invites applications from candidates with a background in mineralogy, petrology and high-temperature geochemistry for a tenure-track position (assistant professor) to begin in Fall 2009.
- The Department of Geology at the University of South Florida seeks a Visiting Assistant Professor in Geochemistry for 2009.
- The University Of Western Australia-Lecturer (Ref: 2519) -Metamorphic Petrology/Geochemistry, School Of Earth And Geographical Sciences -5 year appointment with further employment dependent on funding and progress
- The Department of Geology & Geophysics at Louisiana State University invites applications for two tenure-track Assistant Professor positions to begin Fall semester 2009
- Postdoctoral openings at Lawrence Livermore Laboratory, including experimental geophysics, hydrology, seismology, and atmospheric research areas
- A 3 year postdoc research position here working with me on fracture issues related to natural gas production in the Rockies.
- Picarro would like to hear from potential applicants for the following Applications Specialist position. The Applications Specialist will play a crucial role in applications and methods development for isotopic ratio analysis of a variety of samples using Picarro's novel Wavelength Scanned Cavity Ringdown Spectroscopy (WS-CRDS) system.

POSITION OPENINGS:

The Saskatchewan Isotope Laboratory, University of Saskatchewan, Canada, seeks a full-time isotope technician/analyst, with primary duties on stable isotope instruments, and secondary duties providing technical and operational support on thermal ionisation and plasma multicollector instruments. Experience in gas source mass spectrometry is desirable. Cross-training on the solid source and plasma source instruments will be provided on-the-job, if necessary. The laboratory has 4 gas source mass spectrometers with peripherals including EA, TC/EA and Kiel IV, in addition to two thermal ionization instruments (one a Triton), a multi-collector plasma Neptune, and a trace metal clean lab. Activities of the Laboratory are inherently multidisciplinary.

Duties include the preparation of a wide variety of samples for stable isotope analysis of H, C, N, O and S; performing analyses of samples on mass spectrometers; operation of robotic microsampling devices; troubleshooting and maintenance of equipment; QA/QC; purchase ordering; communication with clients and invoicing; and training. The incumbent will work together with researchers, staff and students to develop new protocols as necessary and to implement quality control of all data produced by the isotope activities of the facility, in particular, the stable isotopes.

The successful candidate will have a technical diploma or degree in chemistry or the earth sciences, will work under the supervision of a laboratory manager and will assist in the training of students and visitors. Good communication and people skills are essential so as to guide the analytical activities of diverse users.

Previous experience in an established research laboratory with demonstrated knowledge of lab safety regulations and procedures, general lab safety, WHMIS training, weighing and gas ratio mass spectrometry is desirable. Careful, neat work behaviour, ability to work well under pressure, to face multiple deadlines and interruptions and to manage time and resources effectively are essential. Computer competency in MS Office (Word, Excel) is required. The position is full-time and, although initially a 12-month contract, it is renewable annually. Salary will be commensurate with experience.

Please send cover letter and CV to:Dr William Patterson (email bill.patterson@usask.ca)Saskatchewan Isotope Laboratory

Applicants with questions regarding this position may call or email:

Dr. Chris Holmden (email chris.holmden@usask.ca) or
Dr. Bruce Eglington (email : bruce.eglington@usask.ca)

Further information on the activities of the Saskatchewan Isotope Laboratory may be obtained from any of the above individuals and from the Laboratory's web site (<http://sil.usask.ca>).

We have a position open in the Department of Geosciences, University of Arkansas-Fayetteville for an assistant professor with emphasis in structural geology and tectonics beginning in the fall 2009. We would appreciate it if you would post the attached position notice. If you know of someone who is qualified please encourage them to apply. If they have questions about the position I would encourage them to contact Dr. Glen Mattioli, Search Committee Chair.

TENURE-TRACK POSITION IN SEISMOLOGY

Geophysical Institute, Geology & Geophysics Department
University of Alaska Fairbanks

Applications are invited for a tenure-track faculty position in seismology at the University of Alaska Fairbanks. We are looking to hire a seismologist who will complement our existing strengths in seismology, with expertise in one or more of the following fields: seismotectonics, earthquake source mechanics, or wave propagation and earth structure, with components of observational seismology in his/her area of interest. This position is a joint appointment between the Department of Geology and Geophysics and the Geophysical Institute. The successful candidate must be capable of maintaining a strong, externally funded research program, and demonstrate an ability to teach graduate and undergraduate level courses in seismology and/or geophysics. The appointment will be made at a level appropriate to the experience of the successful candidate.

Applicants must hold a Ph.D. degree in Geosciences or a related physical science field at the time of appointment. For application materials, please apply online at www.uakjobs.com. You may access this position directly by using the quick link; www.uakjobs.com/applicants/Central?quickFind=63890. In addition to UA Applicant Forms you will need to submit a letter of application, curriculum vitae, and names and contact information of 3 professional references, statement of professional goals, including research interests and experience. If you have any questions regarding this position, please contact Dr. Douglas Christensen (search committee chair), Geophysical Institute, University of Alaska Fairbanks, Tel: (907)

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474-7426 or e-mail: doug@giseis.alaska.edu. For application concerns contact Farra Smith, (907) 474-6010.

Screening of applications for this position will begin October 10, 2008 and continue until this position is filled. For detailed information about the Department of Geology and Geophysics and the Geophysical Institute, applicants are encouraged to visit our web pages (www.uaf.edu/geology/ and www.gi.alaska.edu).

The University of Alaska Fairbanks campus has approximately 6,000 students, and is located in Fairbanks. With a local population of more than 80,000, Fairbanks offers the sophistication of medium-sized cities while maintaining the atmosphere of smaller, more personal towns. The Geophysical Institute is one of several research institutes on campus which employs about 50 faculty with expertise in everything from Space Physics to Tectonics. Within the Geophysical Institute, the Alaska Earthquake Information Center (AEIC) records nearly 500 seismic stations located throughout the region, and locates up to 20,000 earthquakes in Alaska each year. The Alaska Volcano Observatory (AVO) is another major program within the Geophysical Institute and the Arctic Region Super Computer Center (ARSC) is located nearby. These diverse intellectual and data resources offer many opportunities for collaboration within and between disciplines. The University of Alaska Fairbanks is an Equal Opportunity/Affirmative Action Employer

Applications are invited for a scientist to work within the Bloomsbury Environmental Isotope Facility (BEIF), a joint research facility of the Departments of Earth Sciences, Geography and Chemistry, University College London. The successful candidate will undertake and publish their own isotope-based research, where appropriate in collaboration with other laboratory users, and will to act as laboratory manager for the facility. It is expected that the postholder's research profile will render them suitable for inclusion in the RAE or its successor, the REF.

An experienced candidate with a BA/BSc and PhD in any appropriate branch of science, plus practical laboratory experience including using isotope ratio mass spectrometers, is sought. The candidate must have a proven track record in research involving the application of stable isotopes in the Earth and/or Environmental Sciences and the ability to attract research funding.

The post-holder will also be expected to manage the daily running of the laboratory, in collaboration with technical staff, to help in sample preparation and undertake stable-isotope measurements and data reduction, to aid in the training of staff in stable-isotope mass spectrometry techniques, and to undertake their own research.

Funding for the post is available for 5 years, with a starting date of 1 December or as soon as possible thereafter. The appointment will be made on UCL's grade 8: £34,793 - £41,545 p.a. (depending on the applicant's qualifications and experience) plus £2,649 p.a. London Allowance. Informal inquiries can be made to Professor Jonathan Holmes (email j.holmes@ucl.ac.uk).

Application forms can be downloaded from http://www.ucl.ac.uk/hr/docs/download_forms/job_app.doc. Further information can be found at <http://www.ecrc.ucl.ac.uk/content/view/413/38/>. Applications, including a covering letter, completed UCL application form, detailed CV, list of publications and the name and addresses of 3 referees, should be sent to Leisa Clemente, Dept. Earth Sciences, UCL, Gower Street, London, WC1E 6BT by post.

UCL taking action for equality.

The closing date for applications is 10th October 2008

JOIN KINROSS GOLD!

Grads can apply for the Generation Gold Program and gain valuable experience and training w/ attractive compensation and benefits. Summer internships are available for undergrads.

Additional information available in the department office. Interested students should contact generationgold2008@kinross.com and request information well in advance of the Nov. 5 application deadline.

We do have 6 jobs to offer at the GFZ German Research Centre for Geosciences within a national wide project dealing with CO2 storage and we would like you to apply or distribute this offer further. The joint research project lighthouse CLEAN CO2 Largescale EGR in the Altmark Natural gas field is planned as a scientific program accompanying the „Enhanced Gas Recovery“ (EGR) project within the second largest natural gas field in Europe the Altmark gas field. Within the framework of the investigation, use and protection of the underground the following jobs will be filled: Research Scientist, Geophysicist or Physicist, Chemist or Geochemist, Research Scientist or Public Relation Manager, and 2 PhD positions.

Job Vacancies in the CLEAN Altmark Project

The Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences is the national Research Centre for Geosciences in Germany and a member of the Helmholtz Association.

The joint research project lighthouse CLEAN – CO2 Largescale EGR in the Altmark Natural gas field is planned as a scientific program accompanying the „Enhanced Gas Recovery“ (EGR) project within the second largest natural gas field in Europe – the Altmark gas field. Furthermore, this project will be a major step forward towards large scale onshore storage of CO2 and to support in that way the definition of national and international standards. Within the framework of the investigation, use and protection of the underground the following positions will be filled: The Section 5.1 "Environmental Geotechnique" in Department 5 "Geoengineering" invites applications for a position as **Research Scientist** to support the project coordinator to implement and document this national joint project in cooperation with 16 institutions from industry and academia.

Tasks:

Beside project management own scientific work with the focus on integrated monitoring concepts is expected. In the context of the project reports, scientific presentations and publications need to be delivered.

Qualifications:

- Master in geology, geophysics, physics, chemistry, biology or engineering and PhD.
- Experience in the implementation and coordination of scientific projects.
- Experience in the field of resources management, reservoir management or mining.
- Good command of English language.

Salary according to TVöD 13/14 depending on qualification. Duration of the position is initially limited until the 30.06.2011.

Contact: Prof. Dr. Frank Schilling (frank.schilling@gfz.potsdam.de) Further, the Section 5.1 "Environmental Geotechnique" in Department 5 "Geoengineering" invites applications for a position as **Geophysicist or Physicist** for the scientific management of the seismic monitoring at the location Altmark. This project is closely linked to further projects of CO2 storage at GFZ.

Tasks:

Project coordination of active and passive seismic monitoring (VSP/MSP and microseismic monitoring) and processing and interpretation of VSP/MSP measurements. In the context of the project reports, scientific presentations and publications need to be delivered.

Qualifications:

- PhD or equivalent and a strong background in Earth Sciences, geophysics, physics.

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- Experiences in performing and interpretation of seismic measurements in particular borehole measurements like Vertical Seismic Profiling (VSP) and Moving Source Profiling (MSP).
- Computer and programming skills.
- Good command of English language.

Salary according to TVöD 13□14 depending on qualification. Duration of the position is initially limited until the 30.06.2011.

Contact: Dr. Rüdiger Giese (ruediger.giese@gfz-potsdam.de) Further, the Section 5.1 "Environmental Geotechnique" in Department 5 "Geoengineering" invites applications for a position as **Chemist or Geochemist** for the scientific support and development of chemical modules for computer programs applied for coupled numerical reservoir simulations.

Tasks:

Comparison of chemical modules connected to computer models for coupled simulation of deformation, fluid flow, heat transfer, transport and chemical reactions. Development of up scaling methods to transfer laboratory results to the reservoir scale. In the context of the project reports, scientific presentations and publications need to be delivered.

Qualification:

- Master in chemistry, geochemistry, geophysics, physics, engineering oder mathematics preferably with PhD.
- Experience with geochemical processes of water rock interactions.
- Experience in application of geochemical simulation programs..
- Programming skills
- Good command of English language.

Salary according to TVöD 13□14 depending on qualification. Duration of the position is initially limited until the 30.06.2011.

Contact: Dr. Michael Kühn (michael.kuehn@gfz-potsdam.de) Further, the Section 5.1 "Environmental Geotechnique" in Department 5 "Geoengineering" invites applications for a position as **Research Scientist or Public Relation Manager** for the leadership of the information centre at the CLEAN□Altmark site.

Tasks:

The activities cover the conception and setting up of the information centre as well as the production of descriptive exhibits and brochures in close co□operation with the scientists of the entire joint project CLEAN Altmark. Co□ordination of the installation of an internet□based, virtual information platform to educate the public about the Altmark project in particular and the EGR technology and CO2 storage in general.

Qualification:

- Master and PhD in geosciences, geoengineering or journalism preferably with relation to reservoir engineering or reservoir geophysics.
- Experience in the co□ordination of joint projects.
- Scientific experience and advanced presentation skills.
- Good command of English language.

Salary according to TVöD EG 14.

Duration of the position is limited from 01.09.2008 to 31.08.2011. Contact: Prof. Dr. Frank Schilling (frank.schilling@gfz-potsdam.de)

The Section 5.2 "Geothermics" in Department 5 "Geoengineering" invites applications for a **PhD position (m/f)** for the development and field testing of a new thermal borehole measurement technique in order to investigate the transport behaviour of gases and fluids within the reservoir rock.

Tasks:

Design of a combined fiber□optic and electrical logging cable. Plan and perform laboratory tests and field experiments. Carry out and interpret borehole temperature measurements. Carry out coupled thermohydraulic simulations. In the context of the project reports, scientific presentations and publications need to be delivered.

Qualifications:

- Diploma or masters degree in geophysics, geology (with a strong focus on applied geosciences), or a related field
- Experience in borehole logging and heat and fluid transport
- Interest in field and laboratory work, as well as numerical simulation
- Ability to work in an interdisciplinary team.

Payment: EG 13 TVöD

Working hours: 19.5 hours/week

Duration: until 30.6.2011

Contact: Dr. Jan Henniges (jan.henniges@gfz-potsdam.de)

The Section 3.2 " Deformation and Rheology " in Department 3 "Geodynamics" invites applications for a **PhD position (m/f)** for the investigation of microseismicity induced by storage of CO2.

Tasks:

The successful candidate is invited to perform active research on microseismicity induced during storage of CO2. The investigation performed by him or her aims at analyzing microseismicity data acquired by a downhole seismic array. Objectives of the programme include identifying hypocenter locations of microseismic events, analysis of source characteristics and cluster analysis. Further tasks include analysing the spatiotemporal evolution of seismicity as well as determining faulting mechanisms and their inversion for the stress tensor. In the context of the project reports, scientific presentations and publications need to be delivered.

Qualifications:

- Diploma or masters degree in geophysics or physics with strong background in seismology.
- Experience in the analysis of fully digitized waveforms.
- Programming skills for processing of seismological data desirable (preferably C, MATLAB).
- Willingness to participate in geophysical field campaigns and to work in an interdisciplinary team.

Payment: EG 13 TVöD

Start: 2009□01□01

Duration: 2 years (with the option of a one year extension)

Working hours: 19.5 hours/week

Contact: Prof. Dr. Dresen (dre@gfz-potsdam.de) or PD Dr. Bohnhoff (bohnhoff@gfz-potsdam.de)

The Department of Geosciences at Denison University invites applications from candidates with a background in mineralogy, petrology and high-temperature geochemistry for a tenure-track position (assistant professor) to begin in Fall 2009. We seek a broadly trained scientist to teach Physical Geology, Earth Materials, Igneous/Metamorphic Petrology and other courses that complement our program. The ideal candidate should be committed to teaching excellence in a liberal arts setting, have a strong field background, have broad interests beyond their specialty, and be able to provide a balance of classroom, field and laboratory experiences for our students.

A Ph.D. at the time of appointment is required. Denison is a highly selective liberal arts college strongly committed to, and supportive of, excellence in teaching and active faculty research that involves undergraduate students.

All application materials will be handled electronically at <https://employment.denison.edu>.

Please include a letter of application; statements of your approaches to teaching and research in a liberal arts setting; a vita; academic transcripts; and contact information for three references.

Please contact Dr. Tod Frolking, Department of Geosciences, Denison University, Granville, OH 43023; (740) 587-6217; frolking@denison.edu for more information about the position. Application materials should be posted by October 15, 2008 for full consideration. We

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encourage early applications, we would like to meet with candidates attending GSA, October 6- 8, and invite finalists to campus in early November. Denison University is an Affirmative Action, Equal Opportunity Employer. In a continuing effort to diversify our Campus Community, we strongly encourage women and people of color to apply.

The Department of Geology at the University of South Florida seeks a Visiting Assistant Professor in Geochemistry for 2009. We particularly seek applicants who specialize in aqueous and/or environmental geochemistry, although different geochemical backgrounds and expertise will be considered. We are interested in individuals who incorporate field and laboratory experience in their present research and can integrate this knowledge into both graduate and undergraduate classes. Although the focus of the position is on teaching courses in aqueous geochemistry, we anticipate that the successful applicant will continue to pursue their research as well as interact with existing faculty members. Analytical facilities in Geology include, but are not limited to, an ICP-OES, AFS and a newly established ICPMS and IRMS laboratory with a full-time research technician. A PhD at the time of employment is preferred; we anticipate searching for a tenure-earning position in this discipline during 2009-2010, pending budgetary approval.

To apply, send a letter of interest, curriculum vita, statements of teaching and research goals, as well as the names and e-mail addresses of three referees to: Peter J. Harries, Search Chair, Department of Geology, University of South Florida, 4202 E. Fowler Ave., SCA 528, Tampa, FL 33620-5201. Applications will be accepted through November 10, 2008. For additional information, contact Peter Harries (harries@cas.usf.edu) or visit www.cas.usf.edu/geology. USF is an AA/EEO institution. Women and minorities are strongly encouraged.

THE UNIVERSITY OF WESTERN AUSTRALIA-LECTURER (REF: 2519)
METAMORPHIC PETROLOGY/GEOCHEMISTRY
SCHOOL OF EARTH AND GEOGRAPHICAL SCIENCES
5 year appointment with further employment dependent on funding and progress
Salary range: Level B \$71,957 - \$85,450 p.a.
Closing date: Friday, 17 October 2008.

The School of Earth and Geographical Sciences is seeking a highly motivated geoscientist in the areas of metamorphic petrology and geochemistry. The School emphasises an integrated global perspective on issues posed by the earth and its environment and has an international reputation for research and teaching in geology and geophysics, geography and soil science.

The successful candidate will be expected to conduct research at the highest level, lead field excursions, attract research students, apply for external research funds, contribute substantially to undergraduate and postgraduate teaching, and to supervise Honours, MSc and PhD students. Applicants must have a doctoral qualification or equivalent scholarly attainment in Geoscience and the strong motivation to deliver both high level fundamental and applied research. The candidate is expected to work effectively in a team environment within the School and its numerous research centers. Candidates are expected to provide a strong and innovative teaching portfolio in metamorphic petrology and geochemistry and the propensity to increase the level of Honours and PhD studies the fields of metamorphic petrology, geochemistry and geochemical modeling.

For further information regarding the position please contact the Head of School, Professor Peter Cawood on +61 8 6488 3422 or email peter.cawood@uwa.edu.au. Additional information on the School of Earth and Geographical Sciences can be obtained from the website <http://www.segs.uwa.edu.au/>.

Benefits include generous superannuation and leave provisions and fares to Perth (if applicable) for appointee and dependants along with a removal allowance. These and other benefits will be specified in the offer of employment.

APPLICATION DETAILS: The position description follows. Written applications quoting the reference number, personal contact details, qualifications and experience, along with contact details of three referees should be sent to Director, Human Resources, The University of Western Australia, M350, 35 Stirling Highway, Crawley WA 6009 or emailed to jobs@uwa.edu.au by the closing date.

The Department of Geology & Geophysics at Louisiana State University invites applications for two tenure-track Assistant Professor positions to begin Fall semester 2009.

Geochemistry: We seek geochemists who work on fundamental processes and mechanisms, and the evolution of isotopic and geochemical systems. Analytical approaches include, but not limited to , non-traditional stable isotope systems, innovative mass spectrometric techniques, or radioisotopic chronometry. Geochemists whose research programs may utilize our Class 100/1000 ultraclean laboratory and/or wet-chemistry/stable-isotope (TIMS) facilities are encouraged to apply.

Sedimentary Geology: We are looking for a sedimentary geologist who studies sedimentary processes and the evolution of sedimentary systems. Research may include modern and/or ancient examples. The successful candidate will be expected to teach and undergraduate course in sedimentation and depositional environments. Applicants whose research program can utilize our Landmark/Petrel laboratory, geoprobe, and/or microscopy laboratory are encouraged to apply.

Two interrelated focus areas: "Evolution of Sedimentary Systems" and "Earth Materials and Solid Earth Processes" have been developed within the LSU Department of Geology and Geophysics to enhance existing strengths of the Department and allow the Department to interface synergistically with other academic units at LSU. See www.geol.lsu.edu for more information regarding these focus areas, faculty, facilities, and research programs.

The successful applicant must have a Ph.D. at the time of appointment and postdoctoral experience is preferred. The new faculty members are expected to contribute to our undergraduate and graduate teaching programs, and develop courses in their areas of specialization. Development of a strong research program, including supervision of graduate student research, active publication in highly ranked journals, and the generation of external funding, is required. Interaction with other faculty within the Department and across the University is strongly encouraged.

Interested persons should send a copy of their vita, a statement of their research and teaching interests, and the names, postal and e-mail addresses, and phone numbers of at least three references to: Faculty Search Committee, Department of Geology and Geophysics, Louisiana

State University, Ref. Log ##### (Geochemistry) or Ref. Log ##### (Sedimentary Geology), Baton Rouge, LA 70803. The review process will begin November 1, 2008.

The search will continue until a suitable candidate is found.

LSU is the Flagship University of Louisiana, a public and comprehensive institution serving the State and the entire nation with an enrollment of approximately 30,000 students. LSU is ranked in the top tier for "Best National Universities" in the U.S. News & World Report's 2009 edition of

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America's Best Colleges. LSU places a strong emphasis on nationally recognized research competitiveness as outlined in its "National Flagship Agenda" (www.lsu.edu/flagship).

NOTE: Representatives of the Department will be present at the 2008 GSA Annual Meeting in Houston and AGU Fall Meeting at San Francisco.

Postdoctoral openings at Lawrence Livermore Laboratory, including experimental geophysics, hydrology, seismology, and atmospheric research areas.

Andreas Kronenberg	Professor and Head
Department of Geology and Geophysics	Phone: (979) 845-0132
Center for Tectonophysics	FAX: (979) 845-6162
Texas A&M University	e-mail: kronenberg@geo.tamu.edu
College Station, TX 77843U.S.A.	

Through the addition of high-quality Post Doctoral Research Associates, the Atmospheric, Earth, and Energy Division is building on its existing expertise in the following areas: atmospheric and climate modeling, CO2 sequestration, geophysics, seismology and rock mechanics, geochemical modeling, fracture flow, and transport. The research conducted by the Post Doctoral Research Associates will focus on problems of national interest in the energy and environment areas.

We currently have several openings for Post Doctoral Research Staff Members in the following groups:

- **Hydrologic Sciences** – #007748 – Works in the development and application of computational models for simulating fluid flow in coupled atmospheric, surface, and subsurface hydrologic systems
- **Experimental Geophysics** – #007668 – Supports LLNL's growing carbon storage program and conducts research in areas of specification including reactive and/or multiphase fluid flow in porous and fractured media
- **Seismology** – #007714 – Specializes in computational seismology, forward and inverse calculations with 3D earth models, and broadband waveform analysis

• **Atmospheric Flow, Transport, and Hazard Assessment / Climate and Carbon Science** – #007646 – Collaborates with a team of atmospheric and computer scientists to provide scientific support for a national operational atmospheric release emergency response system

To view detailed position descriptions and apply for these opportunities, go to <https://jobs.llnl.gov> and search by job number as indicated above. When applying and prompted please mention where you saw this ad. LLNL is operated by the Lawrence Livermore National Security, LLC, for the U.S. Department of Energy, National Nuclear Security Administration. We are proud to be an equal opportunity employer with a commitment to workforce diversity.

A 3 year postdoc research position here working with me on fracture issues related to natural gas production in the Rockies. In addition, this position in its first year [and possibly beyond] has a teaching component. We have had good success in the past using these postdocs as great launching pads for a career in academics or industry.

The full position announcement, instructions as to how to apply, and related information, can be found at <http://jobs.usu.edu/applicants/Central?quickFind=53484>.

From this link applicants can also find information regarding the area, housing, etc.

The interview process might be a bit different, as I will be on sabbatical soon. It is likely that finalists will interview at Madison with me, and then come to Logan as well.

Picarro would like to hear from potential applicants for the following position, also posted on

<http://www.picarro.com/about/careers/positions.php>

Applications Specialist

Description:

The Applications Specialist will play a crucial role in applications and methods development for isotopic ratio analysis of a variety of samples using Picarro's novel Wavelength Scanned Cavity Ringdown Spectroscopy (WS-CRDS) system. This technique provides high precision data with minimal calibration and sample preparation. This position reports to the Director of Marketing and encompasses working directly with scientists in academic, government and industrial laboratories, providing data from the Picarro product and supplying expertise in the field. In addition, this person will work internally with Picarro's R&D team in setting the goals for future generation products. We're seeking an individual who is comfortable and excited about working on the front-line of scientific contribution, and can work across traditional job boundaries.

Key Responsibilities:

- Conducting spectrometer demonstrations for prospective customers
- Working with scientists on emerging techniques and trends
- Publishing papers and articles in the field of WS-CRDS Isotopic ratio analysis
- Attending and presenting papers at scientific meetings and trade shows
- Developing requirements for next generation products
- Requires 25-35% travel, nationally and internationally

Qualifications:

- Minimum 2 years experience post-graduate isotopic ratio analyses with IRMS and/or CRDS instrumentation
- Strong communications skills are essential, both written and oral

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Fluency in basic analysis and presentation software (Excel, Powerpoint) required, programming capability with Matlab or other mathematical software preferred
Must possess the ability to work across functional boundaries and organizational levels inside the company
Ph.D. in Physical Sciences with emphasis on analytical instrumentation, preferably isotopic ratio analyses

Please send your resume to igreen@picarro.com.
Phone: (408) 962-3942

~ ~ ~ ~ ~ ~ ~ ~ HAVE A GREAT WEEKEND! ~ ~ ~ ~ ~ ~ ~ ~