

GEOBULLETIN
FEBRUARY 6TH, 2009

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.

Feb. 6 - Jennifer Eigenbrode (SPONSOR: ERIC)

BROWN BAG SEMINAR ON FRIDAY 6TH, NOON, ROOM A259
"THE QUEST FOR ORGANICS ON MARS: FROM ANALOGS TO MISSIONS".

WEEKS LECTURE
FRIDAY, FEB 6TH, 3:30 PM
140 WEEKS HALL

"Molecular Fossils for Cyanobacteria and Eukaryotes in the Neoproterozoic"

Molecular fossils are particularly valuable ancient biosignatures that can provide key insight about microbial sources and ecology in early Earth studies. In particular, hopanes carrying 2-methyl or 3-methyl substituents are proposed to be derived from cyanobacteria and oxygen-respiring methanotrophs, respectively, based on both their modern occurrences and their Proterozoic and Phanerozoic sedimentary distributions. Steranes are likely from ancestral eukaryotes. The distribution of methylhopanes, steranes, and other biomarkers in 2.72–2.56 billion-year-old rocks from the Hamersley Province, Western Australia show relationships to lithology, facies, and isotopes of macromolecular carbon, and other biomarkers. These observations support biomarker syngenicity and thermal maturity. Moreover, ecological signatures are revealed, including a surprising relationship between isotopic values for bulk macromolecular carbon and the biomarker for methanotrophs. The record suggests that cyanobacteria were likely key organisms of shallow-water microbial ecosystems providing molecular oxygen, fixed carbon, and possibly fixed nitrogen, and methanotrophs were not alone in recycling methane and other ¹³C-depleted substrates.

Feb. 13 - David Bish, Indiana (SPONSOR: HUIFANG)
"Water on Mars: How can it exist today?"

Feb. 20 - Reserved for sed interview talk

Feb. 27 - Reserved for sed interview talk

Mar. 6 - Reserved for sed interview talk

Mar. 13 - Reserved for sed interview talk

Mar. 20 - Spring break

Mar. 27 - Leigh Royden (MIT) (SPONSOR: DEMETS)
"Uplift, Evolution and Geodynamics of the Tibetan Plateau"

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Apr. 3 - Stephanie Prejean (USGS Anchorage) (SPONSOR: THURBER)

Apr. 10 - Joe Stoner Oregon State, Quaternary (SPONSOR: ANDERS)
"Climatic implications of abrupt geomagnetic change"

Apr. 17 - Board of visitor's meeting (OPEN)

Apr. 24 - Susanne Janecke (Univ. Utah) (SPONSOR: DEMETS)
"Reorganizing plate boundaries, evolving basins, pseudotachylyte,
detachment faults, and crossing strike-slip faults: Southern California"

May 1 - Laurent Charlet, Univ. Grenoble (SPONSOR: NITA)

May 8 - Peter Visscher (SPONSOR: ERIC)
"Microbial mechanisms forming modern marine stromatolites -
Using the present to predict the past"

American Institute of Professional Geologists

AIPG National Scholarship Program

Basis of Awards

Awards will be based on the content and creativity of the essays as judged by the Education Committee. The decisions of the Education Committee are final.

Purpose

To assist students with college education costs and to promote student participation in the American Institute of Professional Geologists (AIPG). Up to four scholarships will be awarded to declare undergraduate geological sciences majors who are at least sophomores.

Scholarship Awards

Scholarships awards in the amount of \$1,000 each will be made to eligible students attending a college or University in the U.S. Scholarships are to be used to support tuition and/or room and board.

Eligibility Requirements

Any student who is majoring in geology (or earth science), is at least a sophomore, and is attending a four-year accredited college or university in the U.S. can apply. Also, the student must be either a student member of AIPG or must have applied for student membership at the time the application for scholarship is submitted. Each student that is awarded a scholarship agrees, by accepting the scholarship, to prepare a 600 to 800 word article for publication in *The Professional Geologist*. The subject of the article must be related to a timely professional issue.

Application Process

Applicants must submit: a letter of interest with name, mail and email addresses, and telephone number; proof of enrollment in an eligible geological sciences program, transcripts; an original one-page essay on why the applicant wants to become a geologist; and a letter of support from a faculty member familiar with the applicant's academic work. The application packet should be submitted to:

AIPG

Attn: Education Committee Chr.
1400 W. 122nd Avenue, Suite 250

Westminster, CO 80234

Phone: (303) 412-6205

Fax (303) 253-9220

aipg@aipg.org

www.aipg.org

Awarded the month of SEPTEMBER Deadline February 15th

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POSITION OPENINGS:

- The University of Alaska Fairbanks (UAF) announces the availability of paid summer internships for U.S. graduate students from U.S. universities in seismology, crustal deformation, igneous petrology, and physical volcanology
- The University of Wyoming Stable Isotope Facility (UWSIF) invites applications for a full-time laboratory technician.
- Position Outreach-Forest Minerals Program Leader - Bridger-Teton National Forest - Pinedale, Wyoming
- KineMed, Inc., a bio-medical firm located in Emeryville, CA, has an opening for an Analytical Chemist (or equivalent) with significant experience in operating and maintaining ultra-sensitive Isotope Ratio Mass Spectrometers (IRMS).
- The Department of Geology at Colorado College invites applications for a one-year non-tenure track position in Petrology/Geochemistry/Volcanology, to begin in August 2009.
- Postdoc Opportunity, Los Alamos National Lab - Stable Isotopes in Secondary Organic Aerosols
- Towson University will be hosting a second Research Experience for Undergraduates site in Urban Environmental Biogeochemistry in Summer 2009
- Science Instructor & TA -SUMMER EMPLOYMENT OPPORTUNITIES - Summer 2009 -Johns Hopkins University Center for Talented Youth (CTY)
- Geohydrology Summer Research Assistantship -Kansas Geological Survey -The University Of Kansas
- University of Minnesota, Morris – Research experience for Undergraduates(REU)
- Internship with EARTH Magazine, Geoscience Communications Opportunity at the American Geological Institute, AGI would like to bring to the attention of all geosciences students the US State Department's Laura W. Bush Traveling Fellowship in support of the UNESCO mandate.
- Candidate for the Bill Bell Chair in Petroleum Geology
- Principal Technical Officer-Department Of Geology –Rhodes University
- Associate Professional Specialist - Laboratory Manager, Isotope Biogeochemistry

POSITION OPENINGS:

The University of Alaska Fairbanks (UAF) announces the availability of paid summer internships for U.S. graduate students from U.S. universities in seismology, crustal deformation, igneous petrology, and physical volcanology. Successful applicants will become members of a US-Russia-Japan team comparing the response of crustal magma systems to catastrophic decompression at Bezymianny and Shiveluch Volcanoes, Kamchatka, Russia, and Mount St Helens, Washington. The project is part of the National Science Foundation's program, Partnerships in International Research and Education (PIRE), which seeks to introduce US graduate students to internationally collaborative science. The ideal student participant will be at an early or middle stage of her or his PhD program, be physically and mentally prepared for rigorous field investigations under difficult conditions, and have a strong interest in international collaboration and understanding. It is also desirable that the student's major advisor share an interest in the research and, although not a requirement, that the work can become a component of the student's PhD program. Complete announcement and application forms can be obtained at <http://gps.alaska.edu/PIRE> and by contacting the relevant science team leaders below. The deadline for application is March 1.

Selections will be made by March 15. As required by the NSF, the competition is open only to US citizens or US permanent residents.

Stable Isotope Laboratory Technician

The University of Wyoming Stable Isotope Facility (UWSIF) invites applications for a full-time laboratory technician. This is a permanent, state-funded staff position with full health and retirement benefits. The UWSIF is a core research laboratory on the University of Wyoming campus in Laramie, Wyoming. The facility has four gas-source isotope ratio mass spectrometers with automated preparation systems, a laser spectroscopy isotope analyzer for liquid water samples and a support laboratory with vacuum extraction lines, gas flushing lines, sample weighing and grinding facilities, and standard wet and dry lab supplies and equipment. Additional information about the laboratory is available at <http://uwacadweb.uwyo.edu/SIF/>.

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Primary responsibilities include but are not limited to: (1) operation and maintenance of analytical instruments and attached peripherals; (2) preparation of samples for stable isotope analysis; (3) maintenance and repair of vacuum extraction lines, vacuum pumps, air and gas delivery systems; (4) purchase and inventory of daily lab supplies and spare parts; (5) training and oversight of part-time technicians for routine lab duties; and (6) oversight of lab safety.

Applicants should have at minimum a bachelor's degree and experience with stable isotope measurements and/or analytical instrumentation. For additional details of the position and the application procedure, please refer to following website: <http://uwadmnweb.uwyo.edu/HREmployment/showjob.asp?jobid=3425> Questions should be directed to Dr. Shikha Sharma (e-mail:shikha@uwyo.edu; phone: 307-766-5021)

The University of Wyoming is an equal opportunity/affirmative action employer

POSITION OUTREACH-FOREST MINERALS PROGRAM LEADER

GS-401/801-11

BRIDGER-TETON NATIONAL FOREST

Pinedale, Wyoming

The Bridger-Teton National Forest will soon be re-advertising for a forest minerals program leader responsible for the operation of the Forest's minerals activities. This notification is being circulated to inform prospective applicants of the upcoming opportunity and to determine interest in the position. The location for this position is Pinedale, Wyoming. The successful applicant will work 50 percent for the forest and 50 percent for the Pinedale Bureau of Land Management. They will occupy offices at both Pinedale locations.

TOUR OF DUTY: Permanent, Full-time.

HOUSING STATUS: No housing is available.

OUTREACH RESPONSE: Interested applicants or those requiring further information should contact Steve Haydon at 307-739-5535 (shaydon@fs.fed.us). **Please send Steve an email if interested.**

ABOUT THE POSITION:

The position is responsible for the coordination of all forest minerals activities on the Bridger – Teton National Forest and specific minerals assignments from the BLM. Forest assignments include both our oil and gas program, gravel operations, required NEPA, and work on the forest plan revision team. BLM work includes NEPA, environmental review of activities, and other specific assignments. The position is a unique opportunity to work together with both organizations and help them both to implement their minerals programs. During field season, the incumbent will be required to spend some time in the field completing and coordinating projects. The position is located within the Engineering/ Minerals staff group of the forest.

ABOUT THE FOREST AND AREA:

The Bridger-Teton National Forest (BTNF) is part of the largest intact ecosystem in the lower 48 states. The 3.4 million acres stretch from the southern border of Yellowstone National Park, covering the entire eastern flank of Grand Teton National Park, wrapping around Jackson Hole valley, to the sage-brush prairies of southwest-central Wyoming.

The Greater Yellowstone Ecosystem is a loosely defined area characterized by high elevation coniferous forests, sage/grass steppes, mountain ranges and deep valleys, large expanses of wild lands and three wilderness areas, abundant wildlife, and internationally recognized scenic and natural features.

The Forest includes headwaters of three nationally significant rivers (Yellowstone, Snake and Green). Tributaries to these rivers are considered exceptional in trout habitat and home to native strains of cutthroat trout.

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Some of the largest and most diverse populations of mammals in North America exist here. This ecosystem still includes all of the major carnivores, an indication of its ecological completeness. The area includes undisturbed habitat for threatened and endangered species including the grizzly bear.

Recreation opportunities and scenic quality are internationally renowned. The BTNF attracts over 3.6 million visitors each year. The three wilderness areas cover over 1.3 million acres; the Bridger, the Teton and the Gros Ventre totaling more than one-third of the BTNF acreage, and containing major migration routes for wildlife. The Forest offers some of the nations best opportunities for winter sports. The backcountry landscape contains a multitude of cross-country skiing trails and miles of trails for snowmobiling. The Forest also offers unique features such as the scenic and challenging Snake River Canyon, where more than 150 thousand visitors float through its whitewater each year; Periodic Springs on Swift Creek near Afton, which is one of the few coldwater geysers in the world; Fremont Lake, the second largest lake in the State of Wyoming, and one of the deepest in the U.S.; Kendall Warm Springs known as the only home for the Kendall Warm Springs Dace; and Gannett Peak (elev. 13,804) the highest point in Wyoming.

The BTNF also has important commodity resources as the biggest producer of helium in the world. Approximately 360,000 acres are open to oil and gas leasing. The Pinedale BLM is one of the most highly productive oil and gas offices in the state, working with many of the largest producers in the world. This is a highly complex program from which you will assigned individual projects, most of which complement your forest assignments.

[KineMed, Inc.](#), a bio-medical firm located in Emeryville, CA, has an opening for an Analytical Chemist (or equivalent) with significant experience in operating and maintaining ultra-sensitive Isotope Ratio Mass Spectrometers (IRMS). In its analytical core facility, KineMed operates three Thermo-Electron IRMS instruments, along with six GCMS units and two LGR ICOS optical spectrophotometers. Applicants should be broadly familiar with chromatographic instrumentation, and are required to have experience in working with biological analytes labeled with stable isotopes of C, H, and O. Experience with hands-on maintenance and repair is required. Interested applicants should send a letter of interest and a current resume to Dr. Alexander Glass, Executive VP, Instrumentation, at <aglass@kinemed.com>. Please include names and contact information for three references. Further information about KineMed can be obtained at <<http://www.kinemed.com>>.

The Department of Geology at Colorado College invites applications for a one-year non-tenure track position in Petrology/Geochemistry/Volcanology, to begin in August 2009. Consideration of applications will begin on February 3, 2009. The faculty visitor in will teach an Introductory Petrology course; a course in Igneous Petrology or high temperature geochemistry; and courses in the candidate's areas of specialization. Appointments will be at the assistant professor level for candidates holding a PhD. The PhD or ABD is a requirement for employment. Applicants must be committed to high-quality innovative undergraduate teaching, including field-oriented courses. The Block System of education at Colorado College, in which professors teach and students take only one course at a time for 3-1/2 weeks, lends itself to field and project-based teaching. The visitor will teach 6 out of 8.5 blocks in the academic calendar. The Department has excellent field equipment and laboratory facilities for teaching and research in all geological disciplines. Information on the position, facilities, and Department is on line at <http://www.coloradocollege.edu/dept/GY/>. Undergraduate research is an integral part of the Colorado College Geology curriculum; thus a willingness to advise research in the candidate's areas of expertise is highly desirable. The Geology Dept contributes to CC's Environmental Sciences program, and possibilities may exist for candidates to participate in teaching/advising in that program. The ability to teach GIS and/or to integrate GIS into courses is advantageous. Colorado College is committed to increasing diversity of the community and curriculum. Candidates who can contribute to that goal are particularly encouraged to apply. Applicants should send statement of teaching and research interests, curriculum vitae, and names and addresses of three referees by February 3, 2009 to: Christine Siddoway, Chair, Colorado College, 14 E. Cache la Poudre, Colorado Springs, CO 80903, 719-389-6717; email: geology@coloradocollege.edu. The search will remain open until the position is filled. The Colorado College welcomes members of all groups, and reaffirms its commitment not to discriminate on the basis of race, color, age, religion, sex, national origin, sexual orientation, or disability in its educational programs, activities, and employment practices. The institution is an equal opportunity employer.

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classes and labs within our guidelines, to monitor the progress of each of their students, and to supervise their assistants (there is one assistant for each instructor).

Teaching Assistant

The primary responsibilities of teaching assistants (TAs) are tutoring students, assisting with the paperwork of a class, teaching the class as requested by the instructor, supervising late afternoon/evening study sessions, assisting with administrative tasks such as typing and photocopying, and generally helping to ensure that the class runs smoothly. Additionally, teaching assistants in science classes must assist with class demonstrations, prepare lab sessions, teach the lab sessions as requested, clean up after lab sessions, and complete an end-of-session inventory.

We are looking for individuals with expertise in the following Earth Science-related subjects:

- * Dynamic Earth
- * Volcanoes: Hawaii
- * Paleobiology
- * Oceanography: The Hawaiian Pacific
- * Astronomy/Introduction to Astronomy
- * Bay Ecology

For more details about these positions, site locations, dates, and employment applications, please see our website:

<http://cty.jhu.edu/summer/employment>.

The Geohydrology Section of the Kansas Geological Survey (KGS) invites applications for up to THREE KGS Applied Geohydrology Summer Research Assistantship positions for the summer of 2009. The positions are available for graduate students and upper-level undergraduates with an interest in learning more about recent developments in hydrogeological field methods. Positions are open to students at any university. This will be the tenth year for the program. Positions in previous summers have been held by students from Appalachian State, Colorado School of Mines, Free University of Brussels, Montana Tech, Northern Iowa University, Oberlin College, Southern Illinois University, University of Colorado, University of Göttingen, University of Illinois, University of Kansas, University of Minnesota at Duluth, University of Mississippi, University of Pittsburg, University of Rhode Island, University of Tübingen, and University of Wisconsin-Madison. Most past participants have co-authored articles or presentations based on the summer work.

POSITION: KGS Applied Geohydrology Summer Research Assistantships

STARTING DATE: May 26, 2009.

APPLICATION DEADLINE: First consideration given to application material received by **February 23, 2009**.

SALARY: Salary \$6,250 for each 12-week assistantship. Expenses of travel to and from Lawrence are not provided. All work-related travel expenses will be provided by the Kansas Geological Survey.

DUTIES: This assistantship is a 12-week summer position during which the individual will work with KGS and Kansas State University (KSU) hydrologists on a variety of field activities in support of KGS research programs. There are expected to be three primary themes for the 2009 activities. Four weeks of the summer will be spent on fieldwork in support of a cooperative KGS/KSU study of groundwater consumption by phreatophytes in riparian corridors (Butler et al., 2007, Water Resour. Res., 43, W02404; Loheide et al., 2005, Water Resour. Res., 41, W07030; www.kgs.ku.edu/Hydro/Phreato/index.html). Four weeks of the summer will be spent investigating new direct-push methods for estimating spatial variations in hydraulic conductivity (Liu et al., 2008, Water Resour. Res., v. 44, W02432, doi:10.1029/2007WR006078; Dietrich et al., 2008, Ground Water, 46, no. 2; Butler et al., 2007, Ground Water, 45, no. 4; www.kgs.ku.edu/Hydro/DirectPush/index.html). Two weeks will be spent on new slug test methods (Butler et al., 2003, Ground Water, 41, no. 5). The remainder of the summer will be spent on preparing the results of the research for publication.

REQUIRED QUALIFICATIONS: Relevant coursework in earth sciences or engineering. Interest in hydrogeology. Ability and willingness to participate in moderate physical activity in mid-summer temperatures in Kansas. Clear communication skills.

PREFERRED QUALIFICATIONS: Coursework in hydrogeology. Experience with Windows-based computers and Excel.

APPLICATION PROCEDURE: Apply online at <http://jobs.ku.edu>; search by Research Assistant title. Complete online application, provide contact information for three professional references, attach resume, and mail official college transcripts to: Annette Delaney, Kansas Geological Survey, The University of Kansas, 1930 Constant Avenue, Lawrence, KS 66047; PH: (785) 864-2152, FAX: (785) 864-5317, hr@kgs.ku.edu. For further technical information contact Jim Butler at jbutler@kgs.ku.edu or Ed Reboulet at reboulet@kgs.ku.edu. Additional information about the type of work to be done can be found at www.kgs.ku.edu/General/Personnel/abc/butler.html

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University of Minnesota, Morris – Research experience for Undergraduates(REU) –
Field and Laboratory Research on
Glacial Sedimentology in Brazil and Surficial Geology of West Central, Minnesota

The program will run from Tuesday, June 16 through Monday, August 10, 2009. This is a 7-week residential program with a 16-day field research trip to Brazil.

Application Procedure

To Apply to the UMM REU program send: a one to two page explanation of your back ground, qualifications and why you are interested in REU; a copy of your college transcript; and two letter of support from faculty no later than February 27 2009 to

Professor James Cotter
Geology Discipline, REU
University of Minnesota, Morris
Morris, MN 56267

For more info, contact:

Phone: 320-589-6312

E-mail: cotterjf@morris.umn.edu

Web Page: <http://www.morris.umn.edu/grants/REUhome.htm>

Internship with EARTH Magazine

Do you like science and love to write?

Try out science writing with an EARTH magazine internship this summer.

We are currently accepting applications for a summer 2009 internship. The intern will work as a full member of the EARTH staff. Tasks include writing news articles for EARTH online, writing and editing news and trends articles for print, helping to edit and produce the magazine, and attending press briefings and science seminars in Washington, D.C., as needed. Based at the American Geological Institute in Alexandria, Va., the internship is 12 weeks long and includes a \$3,500 stipend. Starting time is flexible. All applications should be received by March 31, 2009.

A background in the geosciences, writing and design work is a plus. Send a resume, letter describing what you hope to gain from the internship and how your previous experience makes you most suitable for this position, and writing samples (no more than three) via e-mail, fax or mail to:

Attention: EARTH Summer Internship

American Geological Institute

4220 King Street Alexandria, VA 22302

Fax: (703) 379-7563

E-mail: earth@earthmagazine.org

Writing samples can include essays, newspaper or magazine articles, or samples from classroom work.

We want to see that you have a flair for writing and that you can describe science well.

Geoscience Communications Opportunity at the American Geological Institute

The American Geological Institute currently has an opening for a Communications Specialist to work in the Communications Department. This program is focused on building exposure of the geosciences to the general public and to facilitate communications within the geosciences community. This position will work with other AGI staff to plan and execute conferences, build new communications approaches to facilitate information exchange between geoscientists and AGI's 45 Member Societies, work on initiatives to enhance the visual and popular accessibility of geosciences information, and to help broaden exposure of AGI's activities and mission. This is a full-time position based in Alexandria, Virginia, and ideal for an individual looking to build their network in the geosciences

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profession. Excellent communications skills required. A bachelor's degree in the geosciences is strongly preferred. Please email cover letter and resume to: asm@agiweb.org, and include the word Communications in the subject line.

AGI would like to bring to the attention of all geosciences students the US State Department's Laura W. Bush Traveling Fellowship in support of the UNESCO mandate.

This program provides funds to a student to work in a foreign country on a project that aligns with the UNESCO mandate, which includes the natural sciences. We encourage any student doing field research which connects geosciences with improving human development to consider applying for this program. More information is available at: <http://www.state.gov/p/io/unesco/c25426.htm>

The Bill Bell Chair in Petroleum Geology at The University of Western Ontario The Department of Earth Sciences is pleased to announce a search for a candidate for the Bill Bell Chair in Petroleum Geology. The starting date for the appointment will be July 1st, 2009, or thereafter and the appointment will be made at the rank of associate professor (probationary or tenure) or full professor (with tenure), commensurate with qualifications and experience.

The Department of Earth Sciences at The University of Western Ontario seeks a candidate with significant experience relevant to Petroleum Geology for The Bill Bell Chair in Petroleum Geology, made possible through a donation by Mr. Bill Bell. The Chair holder will have an established record in Petroleum Geology, and a history of interaction and/or employment with the petroleum industry. Research in the Department of Earth Sciences is organized into the broad themes of Earth and Planetary Systems; Resource GeoScience; Tectonic Processes and Natural Hazards; and Earth and Climate Evolution. The successful applicant will be expected to establish and maintain a vigorous, independently funded research program in Petroleum Geology, and to collaborate with other faculty members in one or more of our broad research themes. Preference will be given to qualified applicants whose research supports the Faculty of Science Initiative to Enhance Economic and Energy Resource Geology (see www.uwo.ca). Applicants must be prepared to supervise graduate students at the MSc and PhD levels and to teach broadly-based as well as specialized courses in Petroleum Geology and related fields, both at the undergraduate and graduate levels. The Department of Earth Sciences is a vibrant community of twenty-two full-time faculty members, nine support staff, 66 graduate students, and 10 post-doctoral fellows, research associates and instructors. The Department offers undergraduate and graduate programs in geology, geophysics, and environmental earth science, and is currently implementing a Professional Geoscience undergraduate degree program leading to registration, under guidelines published by the Canadian Council of Professional Geoscientists. The successful candidate will have access to a high calibre array of modern research facilities available within the newly renovated Biology and Geology Building, and research facilities in the Department of Physics and Astronomy and Surface Science Western, and the Nanofab Laboratory. More information about the Department is available at: www.uwo.ca/earth/ Review of applications will commence on March 1, 2009. A complete application includes a covering letter, a full curriculum vitae, the names, mail, email addresses, and phone/fax numbers of at least three referees, and a statement, not to exceed 500 words, explaining how background, experience and research accomplishments qualify you for this position, sent to: Dr. R. Gerhard Pratt, Chair, Department of Earth Sciences, eschair@uwo.ca The University of Western Ontario, London, Ontario CANADA N6A 5B7

Positions are subject to budget approval. Applicants should have fluent written and oral communication skills in English. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Western Ontario is committed to employment equity and welcomes applications from all qualified women and men, including visible minorities, aboriginal people and persons with disabilities.

Rhodes University invites applications from suitably qualified candidates for the following position, from as early a date as possible. Recognizing that diversity is important in achieving excellence, we especially encourage South African members of designated groups to apply.

PRINCIPAL TECHNICAL OFFICER-DEPARTMENT OF GEOLOGY

The successful candidate will be responsible for day-to-day operation of the electron microprobe facility in the Department. Candidates must meet the following minimum requirements:

- M.Sc. Degree in a relevant Science field plus 2 years relevant experience which may be obtained concurrently with studying
- OR**
- Honours Degree in a relevant Science field plus 4 years relevant experience

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OR

B.Sc. Degree or equivalent (3 years) plus 5 years relevant experience

OR

Matric plus 8 years relevant experience

Two years electron microprobe experience **AND/OR** analytical and/or laboratory experience **AND/OR** previous experience in designing, fabricating and repairing electronic equipment

THE FULL MINIMUM JOB REQUIREMENTS, AGAINST WHICH PROSPECTIVE CANDIDATES WILL BE MEASURED, ARE DETAILED IN THE JOB PROFILE

To be considered for this post, applicants must access the application requirements at <http://www.ru.ac.za/jobs> or contact 046 603 8004 for further information. The completed application, together with a curriculum vitae and the official addendum, should be received by Recruitment & Selection, Rhodes University, P O Box 94, Grahamstown, 6140, by 12 noon on Monday, 2 February '09.

SALARY NEGOTIABLE - COMMENSURATE WITH EXPERIENCE AND EDUCATION

Associate Professional Specialist - Laboratory Manager, Isotope Biogeochemistry

The Princeton University Department of Geosciences seeks to hire a full time associate professional specialist for the isotope biogeochemistry laboratory of Professor Daniel Sigman. Responsibilities include performing isotopic analyses and developing new analytical methods, overseeing laboratory operations, assisting graduate students and postdocs, and maintaining equipment, with the opportunity for participation in field work and in the interpretation and publication of results. Master's degree in science is required, as is experience in geochemistry, analytical chemistry, microbiology, or mass spectrometry. Salary commensurate with experience. Interested individuals should send a CV, a description of their training, experience, and career goals, and the names of at least 3 references to Ms. Deborah Fahey, Department Manager, Department of Geosciences, Princeton University, 114 Guyot Hall, Princeton, NJ 08544-1003. Princeton University is an equal opportunity/affirmative action employer and complies with applicable EEO and affirmative action regulations. For information about applying to Princeton and how to self-identify please link to http://www.princeton.edu/dof/about_us/dof_job_openings/

For more information about the research conducted in the Sigman laboratory, please see http://geoweb.princeton.edu/people/faculty/sigman/current_research.html and <http://geoweb.princeton.edu/people/faculty/sigman/pubs.html>

Questions regarding the position may be addressed to Prof. Daniel Sigman, who can be reached by email at sigman@princeton.edu

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