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 Monday.

**Weeks Lecture**

*Speaker list – Spring 2012*

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**Friday, May 4, 2012:**

Carl Jacobson, IOWA State (Host: Goodwin)

![Dr. Carl Jacobson](image)

*Iowa State University*

**Friday, May 4th, 2012, 3:30 PM, Weeks Hall – Room AB20**

*Subduction and unroofing of the Late Cretaceous-Paleogene Pelona-Orocopia-Rand schists of southern California and southwestern Arizona*

The geology of California is varied, with important geologic events dating from Precambrian to recent. Nonetheless, even a quick glance at the California geologic map reveals the dominance of a series of northwest-trending belts largely of Cretaceous age. These belts are vestiges of a former convergent margin, and from west to east (outboard to inboard) comprise the Franciscan subduction complex, Great Valley forearc basin, and Sierra Nevada magmatic arc. The Franciscan-Great Valley-Sierra Nevada triad is particularly well developed in central and northern California. These belts can also be traced into southern California, but in this area show a significant degree of disruption. Also unique to southern California is the presence of the Pelona-Orocopia-Rand (POR) schists. These units are lithologically similar to the Franciscan complex, and like the Franciscan exhibit a relatively high-pressure style of metamorphism characteristic of subduction complexes. However, unlike typical subduction complexes, which are generally positioned outboard of the complementary forearc-basin and arc, the POR schists sit structurally beneath the arc complex. This unusual setting has led to a variety of explanations ranging from formation of the schists in a marginal basin to underplating of trench deposits beneath the arc during low-angle, east-dipping subduction related to the Laramide orogeny. Recent constraints on these interpretations are provided by U-Pb dating of detrital zircons in metasandstones from the POR schists and 40Ar/39Ar dating of metamorphic hornblende, muscovite, biotite, and K-feldspar from the metasandstones and metabasalts. The detrital zircon ages indicate that the sandstone protoliths of the schists were deposited from prior to ca. 90 Ma to post ca. 60 Ma. The 40Ar/39Ar ages indicate that these sediments were thrust beneath North American basement shortly after deposition. This process of ongoing sedimentation and underthrusting over 30 m.y. is most consistent...
with the Laramide subduction model for the schists. This model is further strengthened by the similarity of detrital zircon ages between the POR schists and unmetamorphosed sedimentary units of the forearc basin. Maximum depth of burial of the schists was on the order of 35 km. The $^{40}$Ar/$^{39}$Ar data indicate an initial phase of cooling of the schists shortly after underthrusting. This cooling event is considered to reflect unroofing from maximum depths of burial to 10-15 km below the surface via a combination of erosion and normal faulting. A second phase of cooling in the late Oligocene to early Miocene is attributed to the detachment faulting event that affected much of the southern California, southwest Arizona, and northwest Sonora, Mexico at this time.

Friday, May 11, 2012:

Shanan Peters, University of Wisconsin

SUMMER OPPURTUNITIES:

Apolline Project – Call for volcanologists participants - Campania region of Italy
For those seeking experience in volcanological fieldwork related to archaeological sites this summer, the Apolline Project in the Campania region of Italy is now welcoming applications from students of all levels to participate in a major Roman dig on the Vesuvius slopes. The site of Pollena Trocchia centres on a post-AD 79 bathhouse which seems likely to be part of a larger villa complex. The nearby sites of Pompeii and Herculaneum have made the powers of preservation of volcanic eruptions famous and Pollena Trocchia is another demonstration of this. The various eruptions down the centuries have helped volcanologists and archaeologists piece together a clear chronology; periods of habitation are interrupted by volcanic deposits that are often metres in depth. A complex succession of pyroclastic and volcanoclastic deposits have buried this roman building since the 472 AD subplinian eruption. Numerous eruptive units have been excavated. Those participants with a special interest in the impact of explosive (subplinian) eruptions on buildings and performing volcanology in an archaeological setting are particularly welcome. This year a maximum of six geologists/volcanologists will participate in this excavation.

The excavation runs from June 11th to July 27th and participants must stay for a minimum of two weeks. However, there is no maximum; you are free to stay for the entire duration of the excavation if you so choose. For American and other non-European participants the fee is 350USD and for British participants 200GBP. Participants from other European countries pay 250EUR. This includes all tuition and accommodation irrespective of your length of stay. The deadline for applications is May 10th. Further details can be found on our website at http://www.apollineproject.org/dig.html and the application form at http://www.apollineproject.org/academics/application-volc.php. If you have any questions, please don’t hesitate do get in touch with me (claudio.scarpati@unina.it).

JOB OPENINGS:

- Radiogenic Isotope Laboratory Technician, Department of Earth and Planetary Sciences, Northwestern University
- The School of Earth and Environmental Sciences seeks to appoint an exceptional Academic in any field of geology (in northern Queensland)
- Associate Professor / Senior Lecturer / Lecturer (3 Posts) -School of Geosciences, University of the Witwatersrand
The Eawag Department of Surface Waters – Research and Management is seeking a Group leader in Sedimentology (Tenure Track)

Tenure track Assistant Professor in Radiogenic or Non-traditional Stable Isotope Geochemistry

Wetlands Geology Specialist -Illinois State Geological Survey -Prairie Research Institute -University of Illinois at Urbana-Champaign

Geology Technician position at small liberal arts Whitman College

Visiting Assistant Professor Position in Mineralogy/Petrology - Northern Illinois University

Leibniz Centre for Agricultural Landscape Research (ZALF) Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) - seeking highly qualified scientists

JOB OPENINGS:

Radiogenic Isotope Laboratory Technician, Department of Earth and Planetary Sciences, Northwestern University

A full-time technician is needed to oversee the daily usage and management of a new Radiogenic Isotope Laboratory consisting of a clean room and a Triton MC-TIMS. The technician will operate and maintain the TIMS; work in the clean room to prepare samples, spikes, and reagents; participate in method development projects; train students, assist visitors, and interface with faculty and other personnel; and maintain records of usage and expenses. Applicants should have a MS or PhD degree in geochemistry, chemistry, or a related field, with a strong background in isotope dilution techniques and ability to troubleshoot and repair electronic and vacuum equipment. Prior clean room and TIMS experience is required. Review of applications will begin immediately and continue until the position is filled. Salary is commensurate with qualifications and experience. Applicants should submit a cover letter, CV, and list of four references, including e-mail addresses and phone numbers, to Andrew Jacobson (adj@earth.northwestern.edu). Applicants should also apply online to opening 19023 at www.northwestern.edu/hr/careers. Northwestern University is an EO/AA employer.

The School of Earth and Environmental Sciences seeks to appoint an exceptional Academic in any field of geology (in northern Queensland) who will complement the school's existing strengths in economic geology, geochemistry, and tectonics. The research output of the school is highly ranked in Geology and Geochemistry, and supported by world-class analytical facilities. The school's long tradition of excellence in Economic Geology is maintained through the Economic Geology Research Centre. This post is offered at an exciting time when the mineral resource sector is booming in northern Queensland and student numbers are increasing dramatically. The school is seeking a lecturer who will be a committed and inspirational teacher, as well as a successful researcher able to attract competitive research funding and supervise postgraduate students.

Duties and Accountabilities
The successful applicant will:
- teach and coordinate Geology subjects at undergraduate and post-graduate level (including first year geology and introductory metamorphic petrology);
- develop and grow research that will strengthen JCU's position of excellence in Geology and Geochemistry;
- generate research funding and attract post-graduate students (at Honours, Masters and PhD levels);
- maintain a good publication output; make regular contributions to scientific meetings;
- assist in the operation of student field classes; develop and maintain collaboration with Government agencies and Industry.

Key Selection Criteria

- 3 -
1. PhD and teaching experience in Geology.
2. Ability to teach and coordinate courses.
3. A research track record.
4. Experience as a supervisor at Honours, Master of Science and/or PhD level.
5. Demonstrated ability to attract competitive research funding.

Desirable Selection Criteria
1. Dedication to field orientated teaching will be viewed favourably.

Enquiries; Name: Professor Paul Dirks Phone: (07) 4781 5047
E-mail: paul.dirks@jcu.edu.au

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Associate Professor / Senior Lecturer / Lecturer (3 Posts) -School of Geosciences, University of the Witwatersrand

The School of Geosciences at the University of the Witwatersrand invites applications from suitably-qualified candidates for 3 (THREE) vacancies. These tenure-track posts are available at Associate Professor, Senior Lecturer or Lecturer level and will commence on 1 January, 2013. The level of appointment and starting salary will be commensurate with qualifications and experience.

Background: The School of Geosciences is ranked in the top 1% of geosciences departments worldwide based on cited research (Essential Science Indicators, 2000-2010) and is the largest grouping of geoscientists in southern Africa, with strong multidisciplinary research programmes in Geology, Geophysics and Palaeontology covering many aspects of the internationally-renowned geology of South Africa and other parts of Africa. The advertised posts are in the geology division, which has a strong focus on hard rock geology, with particular reference to economic geology. In addition to world-leading research on the Bushveld Complex and its platinum mineralisation, current projects include the Witwatersrand Basin and Vredefort Impact Structure, Barberton Greenstone Belt, the Damara, Katangan and Lufillian Belts of Namibia and Zambia, and Archaean/Proterozoic cratons in Southern, West and Central Africa. New research opportunities are also emerging in the Karoo Basin and in environmental chemistry/hydrogeology. Preference will be given to candidates with a background in ore mineralisation studies, igneous or metamorphic petrology, geochemistry and/or structural geology, but the School is particularly seeking dynamic early-career researchers with a PhD and a proven research track record in any discipline in geology that complements our research strengths. Applicants intending to complete their PhD by the end of 2012 will also be considered.

Duties: Successful candidates are expected to establish active research programmes, attract postgraduate students, contribute to scientific meetings and publish work in internationally accredited scientific journals. They will be required to teach specialist courses at undergraduate and Honours levels, and to lead appropriate student field excursions. Wherever possible, teaching duties will be matched with a candidate's research background. An opportunity also exists for a suitably-qualified candidate to assume academic responsibility for the School's geochemical laboratory by 2015.

Enquiries: For further information contact the Head of School, Professor Roger Gibson (Tel: +27 11 7176547; email: roger.gibson@wits.ac.za); website: http://www.wits.ac.za/geosciences

To apply: Submit a covering letter accompanied by a detailed curriculum vitae, certified copies of all educational qualifications and identity document with names and e-mail addresses of 3 referees to: Miss Busisiwe Khumalo, Human Resources Officer, University of the Witwatersrand, Private Bag 3, Wits 2050; e-mail: busisiwe.khumalo@wits.ac.za Fax: 086 523 4543 Tel: +27 11 7171423
Closing Date: Friday, 25 May 2012

Only short-listed candidates will be contacted.

"The University is committed to employment equity. Preference may be given to appointable applicants from the underrepresented designated groups in terms of the relevant employment equity plans and policies of the University. The University retains the right not to make an appointment, to invite applications after the closing date, and to verify all information provided by candidates."

Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is a Swiss-based and internationally active research institute within the ETH domain (Swiss Federal Institute of Science and Technology). It is committed to the ecologically, economically and socially responsible management of water resources and aquatic ecosystems.

The Eawag Department of Surface Waters – Research and Management is seeking a Group leader in Sedimentology (Tenure Track)

Candidates should have a doctoral degree in sedimentology or another relevant branch of geosciences. From the successful candidate we expect an excellent knowledge of particle dynamics in aquatic environments, a strong understanding of the physical, chemical and biogeochemical aspects of involved processes, and a corresponding research portfolio. The main focus of our collaborative research is on recent sedimentological processes, including the analysis of centennial-scale sedimentary archives. Furthermore, we contribute to expanding and strengthening the scientific basis upon which the conservation and management of all aspects of water resources ultimately depends. The successful candidate should be capable of taking full advantage of the collaborative environment that exists between the various research departments at Eawag, and of our world-class infrastructure and facilities to develop a strong research program. Acquiring third-party funding, recruiting PhD and Masters' students, and contributing to the fulfillment of Eawag’s consulting and teaching mandates are expected. The ability to lead a research team is essential, as are excellent communication skills in English. The ability to communicate in German, or the willingness to learn German, would be of advantage.

The Department of Surface Waters – Research and Management (http://www.eawag.ch/forschung/surf/index) and the Center for Ecology, Evolution and Biogeochemistry (http://www.eawag.ch/forschung/cc/ceeb/index_EN) at Eawag provide excellent opportunities for collaborative research. Eawag is also closely affiliated with environmental research departments at ETH and EPFL through joint appointments. Eawag has two locations: one in Dübendorf, close to Zurich, and one on the shores of Lake Lucerne, well known for its excellent quality of life.

Closing date for completed applications is June 15th. Earliest starting date is anticipated to be October 1st 2012. Applications from female scientists are strongly encouraged. Salaries at Eawag are highly competitive and will depend on experience. Eawag is committed to promote equal opportunities for men and women and to support the compatibility of family and work.

For further information please consult www.eawag.ch or contact: Dr. Carsten Schubert, Phone +41 58 765 2195, Email: carsten.schubert@eawag.ch

Please submit your application in electronic format online (pdf) with the following application material: Cover letter, curriculum vitae, a statement outlining research interests, the names of three referees including e-mail addresses, and copies of up to five selected papers published in refereed journals over the past three years.

Tenure track Assistant Professor in Radiogenic or Non-traditional Stable Isotope Geochemistry

We encourage applicants who will pursue novel applications of isotope geochemistry to problems in Earth and environmental science, especially those that capitalize on Hawaii’s unique environment. An interest in methodological innovation is also desirable. The new hire will have the expertise to utilize and contribute to the operation of existing MC-ICP-MS and TIMS instruments and associated clean laboratory. Opportunities for
collaborative isotope research across SOEST include volcanology, mantle geochemistry, biogeochemistry, cosmochemistry, environmental sciences, ecology, Earth history, marine geochemistry and oceanography. The successful candidate will demonstrate the capability for innovative, high quality research, and for effective teaching and mentoring of undergraduate and graduate students. They are expected to develop and sustain an outstanding research program and contribute to the department's educational mission. Applicants must have a Ph.D. in geology and geophysics or other relevant disciplines received no later than appointment date. Informal inquiries should be directed to the Geochemistry Search Committee Chair via ggdept@soest.hawaii.edu.

Additional Information:
The new faculty hire will have full access to radiogenic/non-traditional isotope geochemistry facilities at UHM. These include the SOEST Isotope Laboratory which includes a Nu Instruments MC-ICP-MS facility. Presently these facilities conduct multi- and trans-disciplinary research in volcanology, coastal studies, fisheries, paleoceanography, igneous petrology, biogeochemistry, environmental science, mantle geochemistry, and anthropology. The SOEST Isotope Laboratory includes two TIMS instruments which are used for analyses of Sr, Nd and Pb isotope ratios and for U-series isotope analyses. Sample preparation for isotope analyses is performed in clean labs associated with the SOEST Isotope Laboratory. The MC-ICP-MS facility is currently used for Th, U, Pb, Li isotope and trace metal isotope dilution analyses, but is well suited to a variety of other isotope ratio measurements. For additional information about the laboratories, contact Ken Rubin, krubin@hawaii.edu.

How To Apply
To apply, submit (a) a cover letter, (b) a curriculum vitae which includes a summary of educational background, previous research and teaching experience, and a list of publications and research funding, (c) a statement of current and future research and teaching interests, and (d) the contact information (postal addresses, phone numbers, and email addresses) for at least three references and official transcripts (copies are acceptable with applications, originals are required upon hire).

Applicants are encouraged to include in their research statement, plans for possible collaborative research with G&G, SOEST and other university faculty. The cover letter should be addressed to the Geochemistry Search Committee. To view the University of Hawaii job description of the vacancy announcement, please visit WORKATUH.HAWAII.EDU.

Submit application to:
GG Faculty Search
Department of Geology and Geophysics
University of Hawaii at Manoa
1680 East-West RD. POST 701
Honolulu, HI 96822
Email: ggdept@soest.hawaii.edu

Electronic submissions are preferred. Review of applications will begin on June 1, 2012. The University of Hawai`i is an Equal Opportunity/Affirmative Action Institution. We encourage applications from individuals of all backgrounds and perspectives.

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Wetlands Geology Specialist -Illinois State Geological Survey -Prairie Research Institute -University of Illinois at Urbana-Champaign
We are seeking an individual(s) (up to two, depending on pool of applicants and programmatic need) to assist with hydrogeologic studies of wetlands, wetland mitigation sites, and other natural areas.

Responsibilities:
Conduct field work, including installing wells and instruments, surveying, field testing, collecting hydrogeologic and geochemical measurements, and assisting other project participants. ownload and maintain various field instrumentation. Measure surface and ground water levels. Maintain field equipment and vehicles. Enter and upload field data and perform quality control checks. Collect, review, and evaluate field and file data. Contribute to hydrogeologic characterization site reports. Participate in other geologic/environmental research.

Qualifications: Required:
Bachelor’s degree in geology, physical geography, or related discipline with 2 years related experience. Familiarity with reading and interpreting aerial photographs and geologic and topographic maps.
Ability to accurately collect, analyze, and interpret data from various information sources. Ability to write comprehensive technical reports. Ability to prioritize, organize, and handle heavy workloads with multiple deadlines. Ability to use sound judgment in decision-making. Strong interpersonal skills to develop good working relationships. Ability and willingness to effectively contribute and lead as part of a team. Proficiency in word processing and spreadsheet software. Must be able to conduct field work alone in wetlands in both rural and urban settings, some of which may be under adverse conditions (e.g. inclement weather, remoteness, and moderate physical exertion). Ability to travel overnight for up to one work week at a time. Must have a valid driver’s license. Must be able to lift and manipulate field equipment and other items weighing up to 50 pounds over uneven terrain.

Preferred: Master’s degree in geology, physical geography, or related discipline. Coursework in wetland science, geomorphology, glacial geology, hydrogeology, soil science, and/or sedimentology. Knowledge of the wetlands regulation process. Experience with field techniques and equipment. Experience with surveying and/or basic hand and power tools. Experience with graphics, geographic information systems, relational databases, and/or geodatabases.

This is a regular full-time 12-month academic professional position subject to the availability of continued funding and programmatic need. The starting date is negotiable after the closing date. Salary is commensurate with experience.

Applications must be received by May 18, 2012. To apply, all candidates must submit an online profile through jobs.illinois.edu by the close of the posting period. Qualified candidates must upload a letter of application which details qualifications noted above, résumé, and the names, addresses, phone numbers, and e-mail addresses of three professional references. All requested information must be submitted for your application to be considered.

Incomplete information will not be reviewed. For further information please contact Lori Walston-Vonderharr, Human Resources, Illinois State Geological Survey

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Geology Technician position at small liberal arts Whitman College

A M.Sc. in Geology or Earth Sciences, or equivalent work experience, and a valid U.S. driver's license are required. Preference will be given to applicants having experience with EPMA or SEM with EDS and/or ICP-MS analysis of geologic materials.

Please see http://www.whitman.edu/content/hr (select Employment Opportunities for Staff) for detailed job description and website-based application link. The closing date is May 7th.

postdoctoral fellow at the Commonwealth Scientific and Industrial Research Organisation (CSIRO) in Clayton (Melbourne), Victoria, Australia. The successful candidate will be based in Ian Madsen's group at CSIRO Process Science and Engineering and will have a joint appointment in the School of Geosciences at Monash University's Clayton campus. Supervision will be shared between Ian Madsen and myself. This three-year position is open to international candidates and comes with a generous salary and superannuation (retirement savings) package. The deadline for applications is 31 May 2012.

The goal of the project is to develop an improved understanding of the conditions that promote low-temperature formation of Mg-carbonate minerals and decomposition of readily precipitated hydrated carbonate minerals to durable, geologically stable mineral stores for CO2. The postdoctoral fellow will have access to X-ray diffraction instruments equipped with sophisticated environmental control systems at CSIRO and will be encouraged to apply for the opportunity to conduct in situ experiments at the Australian Synchrotron (also in Clayton, VIC, Australia).

Job Reference - VIC12/00808
Location: Clayton VIC
CSIRO Process Science and Engineering

Role Overview:
CSIRO Process Science and Engineering is seeking to appoint a highly motivated graduate who will be responsible for developing an understanding of the conditions that promote low-temperature mineral carbonation reactions and the decomposition of readily precipitated hydrated Mg-carbonate minerals to form durable, geologically stable mineral hosts for CO2.

You will have responsibility for the design and execution of predominantly in situ experimentation utilising the unique X-ray diffraction (XRD) facilities and environmental control systems at CSIRO Clayton and Monash University.


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Visiting Assistant Professor Position in Mineralogy/Petrology - Northern Illinois University

The Department of Geology and Environmental Geosciences at Northern Illinois University invites applications for a one-year full-time position as Visiting Assistant Professor beginning August 16, 2012. Areas of interest include experimental mineralogy/petrology, geochemistry, igneous petrology, mineral physics, planetary geology, and structural geology, among others. The successful candidate will teach physical geology and/or planetary geology at the introductory level and mineralogy and petrology at the intermediate and advanced levels based on his or her expertise in these broad fields. He or she may also assist in supervision of graduate and undergraduate research, conduct his or her own research and/or cooperate in current research projects.

The department offers programs leading to the B.S., M.S., and Ph.D. degrees, and currently has 12 faculty members, whose research and teaching interests are described on our web site at [http://www.niu.edu/geology/](http://www.niu.edu/geology/). Facilities include an array of analytical instruments (e.g. electron microprobe, SEM, AFM, XRD, XRF, ion chromatograph, ICP-MS with laser ablation) and field equipment. NIU is part of the CARS research consortium at the nearby Advanced Photon Source of Argonne National Laboratory.

Candidates should hold a Ph.D. in geoscience at the time of appointment. Applicants must submit electronically a letter of application, curriculum vitae, a statement of teaching experience and capabilities in the areas desired, and a list of at least three references to: Colin Booth, Chair, Department of Geology and Environmental Geosciences, Northern Illinois University, DeKalb, IL 60115, cbooth@niu.edu. Review of applications will begin June 1, 2012 and will continue until the position is filled. State law requires the university to conduct a criminal background check before appointment. NIU is an AA/EEO Institution that values diversity in its faculty, staff, and students; we strongly encourage applications from diverse candidates including women and minorities. A state-mandated pre-employment criminal background investigation is required.

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KTP Associate in Geology: Carbonate Sedimentology/Isotopic and Elemental Stratigraphy

An exciting opportunity has arisen for an enthusiastic individual to work on a 24 month Knowledge Transfer Partnership (KTP) collaborative project between The University of Liverpool and Chemostrat Ltd
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(http://www.chemostrat.com) a specialist consultant in the provision of chemical stratigraphic correlations for the oil industry. You will have an honours degree (2.1 or above) in Geology, higher qualifications and industrial experience would be an advantage. Interest / experience in carbonate sedimentology and stratigraphy and experience in the Oil and Gas sector are desirable. You will need a creative and scientific approach suitable for developing new stratigraphic techniques, project management and team working skills. The person will be based at Chemostrat in N Wales and will be expected to work at the University as the project demands

Closing date for receipt of applications: 25 May 2012

More information and how to apply
http://www.liv.ac.uk/working/job_vacancies/research/R-579457.htm
Informal enquires to Jim Marshall, email: isotopes@liv.ac.uk

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Leibniz Centre for Agricultural Landscape Research (ZALF) Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) - seeking highly qualified scientists

We are seeking highly qualified scientists who are also highly motivated and enjoy interdisciplinary work. In addition to the specific requirements stated above, the candidates need a master of science (or an equivalent qualification) in the following or comparable disciplines: biology, environmental sciences, limnology, aquatic biology, ecology, biogeochemistry, agricultural sciences, mathematics, or geography. For the successful realisation of the project, flexibility, autonomy, communication skills, and teamwork are required.

We offer an exciting interdisciplinary project at the interface of aquatic and terrestrial biogeochemistry within a young and dynamic team without classical hierarchies. The positions are fixed-term and limited to 3 years. Start of the project will be 1st July. Salary is paid according to 13TV-L(ZALF) and TVöD (IGB) (50% positions). In keeping with the ZALF and IGB's policy regarding gender equity, female applicants are particularly encouraged. Disabled people with identical qualifications are encouraged to apply. For further other information please contact Dr. Katrin Premke (premke@igb-berlin.de), or go to the following website: www.landscales.de.

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