Letter from the President

Dear NSGS members,

I want to begin this quarter’s president’s note with a call for nominations for the NSGS and SEG honors and awards. This is a chance to recognize those you feel are deserving of recognition by the section and their peers. The selection committees welcome and encourage participation from the broader membership and it is important the broader membership take a role in selecting those individuals who deserve the section and society’s highest honors. Nominations can come from any member so please don’t hesitate - just a short note about why you feel your nominee deserves recognition. There are two upcoming nominations deadlines that I wish to draw your attention to. The first is the Harold Mooney Award which is given each year by the NSGS. Nominations are due June 1. Please follow this link to see the full request for nominations.

Second are nominations for the 2014 SEG Near Surface Honorary Lecturer which are due June 14. Please mail your nominations to Judy Wall (jwall@seg.org) at SEG headquarters. This will be the third NS HL and if Rick Miller’s inaugural tour was any indicator, future tours should see great success. Rick made 22 stops in 8 countries across the US, Europe, Asia, Africa and Australia. Follow this link to listen to a radio interview with Rick during his tour. Additionally, if you missed the lecture in person, you can view past HLs in the SEG archives at http://www.seg.org/education/misc/hllibrary. Next fall, look for Valentina Socco’s 2013 NS HL tour entitled “Surface wave analysis for near-surface characterization: Introduction, theme and variations.”

Now to shift gears a bit, I would like to provide an update on the discussions we have been having with the Environmental and Engineering Geophysical Society. Over the past two years, the EEGS/SEG Collaboration Task Force has been investigating the potential to enhance collaboration between our two organizations to include the possibility of merging. In January 2013, our task force forwarded a recommendation to the SEG Board recommending that EEGS and SEG proceed toward merger with the development of a detailed merger agreement. In February, the SEG board approved this recommendation and committed to the following if the merger is completed.

- Creation of an autonomous business entity for near-surface activities that would operate under the SEG umbrella.
- Investment upward of $1.5 million over five years to make this entity a viable and self-sustaining SEG community.
- Creation of a new near-surface journal that meets SEG publications standards for professionalism and scientific merit.

This is a major step forward for the support of near-surface geophysics within SEG. The recommendation now must be approved by the EEGS board. Assuming that the recommendation is accepted and the final merger agreement is approved, the question will then put to a vote by you, the members. For more details, look for the President’s Page in the April Leading Edge, where SEG 1st Vice President, Rick Miller, describes SEGs overall strategy for near surface geophysics. Also, click on the following link see the official announcement about the SEG Board’s decision on the merger recommendation and to learn more about what the merger will mean for members.

The global near-surface geophysics community is large and growing, but fragmented into a diverse set of constituencies. Included within this group are researchers, government regulators, consultants, engineers, hydrogeologists, as well as the resource exploration and development community concerned with common-good sustainability and effectively engineered resource extraction. And the list goes on. A key objective of the NSGS is establishing a home in which each of these diverse constituencies can thrive to improve technical communication, public understanding, an ultimately the advancement of applied geophysics. Reuniting the SEG/NSGS and EEGS communities is an important first step in reaching this long term objective.

Best regards,

John Bradford
Feature Article:
Geoscientists Without Borders: Mapping an Aquifer Using French, English, and a Sledgehammer

Esther Babcock¹, Kyle Lindsay¹, Thomas Blum¹, Dylan Mikesell², and John Bradford¹

1) Center for Geophysical Investigation of the Shallow Subsurface, Boise State University
2) University of Nice, Sophia-Antipolis, France

The Godomey aquifer supplies drinking water to the capital city of Cotonou, Bénin. Over a million inhabitants depend on its water supply. Unfortunately, the aquifer is undergoing salt-water intrusion. City water officials hope to minimize the salt-water intrusion and extend the useful life of the aquifer by careful management and pumping strategies based on geophysical surveys of the hydrogeology. Maintaining the integrity of the drinking water supply will aid city development and concurrent quality of life.

For over a decade, scientists from the United States have been collaborating with Université d'Abomey-Calavi (UAC) to identify affected wells via a water quality monitoring program. In conjunction with UAC faculty Dr. Nicaise Yalo and Dr. Moussa Boukari, Dr. Stephen Silliman, a professor at Gonzaga University, has previously conducted pump tests and chemical analyses throughout the Godomey well field. In January 2013, the Society of Exploration Geophysicists's (SEG) provided funding through its Geoscientists Without Borders Program to Dr. John Bradford. Dr. Bradford partnered with UAC faculty and students to lead a team of scientists and students from Boise State University (BSU) and the University of Nice, Sophia-Antipolis to use seismic and electromagnetic methods to map the subsurface geology around the aquifer.

Previous geophysical surveys indicate that the most likely source of the salt-water intrusion is the nearby Lake Nokoué. Lake Nokoué borders the Godomey aquifer and has seasonal salinity levels as high as 30 ppt. The goal of this Geoscientists Without Borders project is to provide a map of the local subsurface geology on land and under the lake. This map will identify salt water flow paths. Models based on these results will allow local water management officials to manage the aquifer and limit contamination.

A literature review indicates that two barriers to a collaboration effort such as this one are the language barrier and lack of student integration. Thus, to aid communication, group members spent several months before the trip learning and practicing French. To foster student development and integration throughout the project, Dr. Thomas Blum, a scientist from France who recently completed his PhD at BSU, taught a seismic short course to U.S., French, and Béninois students on day three. As a result, throughout the data acquisition all the students had a solid grasp of the underlying geophysical principles and could communicate questions effectively.

Seismic data acquisition occurred for two weeks after the equipment preparation and short course. The reflection surveys consisted of multiple lines running both north-south and east-west along roads in the vicinity of the lake. Local infrastructure restricted access to some planned survey locations, and seismic noise was problematic due to high traffic density.

All students had the opportunity to operate the hardware and the software during the surveys. Tasks changed often enough so each participant had the opportunity to swing the sledgehammer, work the computer, or tend the cables. The mix of Béninois, American, and French students proved beneficial. From the perspective of a U.S. student in Africa for the first time, the hard and hot days of seismic acquisition passed quickly during the nonstop dialogue with local students. The Béninois students always had questions about the United States, our university programs, and our geophysical equipment. Likewise, we always had questions about their daily lives, their university, and their country. Although our barrage of questioning may have been tiring after a few days, the Béninois always seemed happy to assuage our curiosity. For the American and French students, the cultural exposure and exchange was one of the most valuable parts of the entire experience.
Although the detailed data processing is still ongoing at BSU, preliminary results from the data analysis reveal an outline of the aquifer system. The images clearly reveal reflectors at depths up to 900 meters. We suspect this depth might be an all-time record for sledgehammer seismic acquisition.

After the seismic data collection, most of the team returned to the United States and France. Kyle Lindsay, a graduate student at BSU, stayed behind for an extra two weeks to conduct Electrical Resistivity (ER) and Time Domain Electromagnetic (TDEM) surveys. These data will highlight where the salt water is present. Combining the seismic survey with the ER and TDEM results will improve our understanding of potential routes for salt-water flow.

What’s next for this project? Members of the U.S. team will return to Bénin in the fall to investigate the near surface structure under Lake Nokoué. We will conduct a marine seismic survey in Lake Nokoué. Resulting maps of the sub-lake geology, combined with the land-based seismic and electrical resistivity surveys, will give local water management officials a more complete image of possible routes of salt-water intrusion into the Godomey aquifer. Based on this information, the improved management plan will extend the useful life of the aquifer to keep providing fresh, potable water to the city of Cotonou.

Figure 1. Seismic data showing strong reflections visible up to 900 ms.
In 2010, the SEG Executive Committee identified the near-surface community as an underserved and fragmented community of practice. In response to this, the 2010 SEG Executive Committee moved forward and invested in several significant initiatives to affect positive change. These initiatives included creating a Near-surface Honorary Lecturer series, creating and approving the hire of an SEG Near-surface program manager, and beginning an ongoing, active conversation with the Environmental and Engineering Geophysics (EEGS) leadership. Over the past 18 months, a combined SEG and EEGS task force worked with SEG and EEGS staff to explore the possibility and feasibility of combining EEGS with SEG to form the foundation of a strong global home for members of the near-surface community. Based on the recommendations of the task force, the SEG Board of Directors voted to approve the following during its February meeting:

a) Creation of an autonomous business entity for near-surface activities that would operate under the SEG umbrella.

b) Invest upward of $1.5 million over five years to make this entity a viable and self-sustaining SEG community.

c) Create of a new near-surface journal that meets SEG publications standards for professionalism and scientific merit.

The SEG Board’s overwhelming endorsement of the EEGS-SEG task-force recommendations for merger firmly opens the final door for a formal EEGS-SEG merger. The same recommendations are being presented to the EEGS Board of Directors for approval during its March meeting. If approved, a formal merger agreement will be drafted and the membership of EEGS and SEG’s Near Surface Geophysics Section will have the opportunity to vote on the merger. If the merger is approved by both entities, a new, stronger, and more service-focused near-surface SEG community will emerge by the end of 2013.
The 2013 SEG Annual Meeting will take place from 22-27 September in Houston, TX. The Near Surface Geophysics Section will organize several events in which we hope you will be able to participate. After a few years of absence, the NS luncheon is returning to the program and we will once again have an evening social event. As part of the technical program, the NS Section will organize several oral and poster sessions, a special session on Hydrogeophysics chaired by Kristina Keating (Rutgers University) and Andrew Parsekian (Stanford University), and a post convention workshop on Coastal Geophysics, organized by John Goff of the University of Texas. If you are planning to submit an abstract, please be aware that the submission deadline is early this year, on April 3rd 2013 at 5:00 PM US Central Daylight Time. Follow these links for the abstract kit and instructions for authors. If you have any questions about the program, please contact Remke Van Dam of Michigan State University (rvd@msu.edu).
Open Call for Papers, TLE Special Section on: Hydrogeophysics

Hydrogeophysics encompasses a vast range of topics, spanning applications ranging from remediation to resource management to development to exploration. This expansive and active area of study and practice includes a surprisingly large set of continuously changing and evolving geophysical tools and methodologies. As broad as this general focus area is, it is unique in that it touches the lives of almost every living organism on the planet. SEG’s *The Leading Edge* (TLE) will publish a special section in the July 2013 issue showcasing cutting edge applications of geophysics searching for answers significant to various groundwater problems. Near-surface geoscientists have been developing and using geophysics as a frontline tool for studying and characterizing groundwater problems for many decades. It is our hope that the July issue will provide the TLE readership with a flavor of the diversity and fascinating work going on within the near surface geohydrologic community.

The TLE editorial calendar for submission deadline is March 15, but if you have a paper in pretty good shape contact one of us before April 1, we’ll try to slip it in.

**Guest Editors:** Rick Miller rmill@kgs.ku.edu and Kamini Singha ksingha@mines.edu
Call for Award Nominations

The SEG - NSGS has two major awards: the Harold Mooney Award and the Frank Frischknecht Leadership Award. These awards provide a chance to honor those members of our community that have made outstanding contributions. This year, the Mooney awards will be presented at the NSGS Dinner and Reception at the SEG Annual Meeting in Houston. For the awards to be effective we need active participation from our membership to generate nominations. Please read the following award descriptions and submit your nomination by email to John Bradford (jbradfor@boisestate.edu). The nomination should contain the name, title and affiliation of the candidate along with a statement describing the reasons for the nomination. Nominations should be received by August 15, 2013 for full consideration.

Harold Mooney Award
The Harold Mooney Award is presented by the NSGS during its reception at the SEG Annual Meeting. The honoree is chosen by his or her peers through nominations from the membership and recommendation to the NSGS Executive Committee. The award is presented to an individual in recognition of long-term, tireless, and enthusiastic support of the near-surface geophysics community through education, outreach efforts, professional service, or development of opportunities with other professional disciplines that employ geophysics. For more information see http://nsgs.seg.org/section-awards.php.
In 2012, SEG expanded the Honorary Lecture (HL) Program to include the first thematic lecturer in Near Surface (NS). After the inaugural NS lecture tour by Rick Miller in 2012, Valentina Socco will present the upcoming 2013 lecture titled: “Surface wave analysis for near-surface characterization: Introduction, theme and variations.” Now is the time to submit nominations for the 2014 Honorary Lecturer! Please submit completed nomination forms to Judy Wall (jwall@seg.org). The nomination period ends on July 13, 2013. The NSG community needs to support the NS HL and the first step is through nominations.

The goals of the Honorary Lecture program are to recognize an individual’s contributions to advancing the science and technology of geophysics, foster a sense of community amongst geophysicists by providing opportunities for local meetings and exchange of ideas, and encourage students by providing the opportunity to discuss scientific and career issues with a leading expert.

The lecturer should be an expert in their field, an effective representative of SEG and an outstanding communicator. The lecture topic should be current and of global interest. The HL committee seeks nominations for many outstanding individuals; if you know a candidate to represent the SEG NSG in 10 - 12 domestic and international cities in 2014, please submit a nomination form today.
Calendar of Upcoming Events

2013
MARCH
73rd Annual Meeting of the German Geophysical Society Leipzig, Germany 4-7 March 2013 www.ufz.de/dgg-2013

3-D Seismic Symposium Denver Geophysical Society
Denver, Colorado USA 5 March 2013 Contact Co-Chair: Jim Thorson jim.thorson@catamountexploration.com www.3dseismicsymposium.com

SAGEEP 2013
Environmental & Engineering Geophysical Society
Denver, Colorado
17-21 March 2013

APRIL
Marine Geology and Geophysics Field Course (Enrollment is limited to nine participants) University of Texas Institute for Geophysics For course details and fee information contact: Sean Gulick sean@ig.utexas.edu 512.471.0483 http://www.ig.utexas.edu/research/mgg/courses/geof348K/

Full Waveform Inversion: From the Near Surface to the Deep
Society of Exploration Geophysicists
Muscat, Oman
27 April - 1 May 2013
www.seg.org/meetings.oman13

MAY
13th Multidisciplinary Conference on Sinkholes and the Engineering and Environmental Impacts of Karst. 6-10 May 2013 Carlsbad, New Mexico USA https://sites.google.com/site/sinkholeconference2013/


JULY
Near Surface Geophysics Asia Pacific Conference
17-19 July 2013
Beijing, China
www.seg.org/meetings/nsgapc13

AUGUST
23rd International Geophysical Conference & Exhibition ASEG - PESA August 11-14 2013 Melbourne, Australia
More information of the conference/Call for Papers/Registration can be found at: http://www.aseg-pesa2013.com.au/

SEPTEMBER
83rd Annual Meeting of Society of Exploration Geophysicists
22-27 September 2013
Houston, Texas, USA
www.seg.org

Near Surface Geophysics Luncheon
24 September 2013
11:30 AM - 1:00 PM
Houston, Texas, USA
www.seg.org

Coastal Geophysics Workshop
27, September 2013
Houston, Texas, USA
www.seg.org

2014
March

DGS-SEG Near Surface Imaging and Modeling Workshop
Bahrain
Near Surface Geophysics
Asia Pacific Conference
BEIJING INTERNATIONAL CONVENTION CENTER
17–19 JULY 2013 • BEIJING, CHINA

The continuing growth in influence of near surface geophysics has brought this area of geophysics to the forefront. As a result, in an unprecedented move, a Near Surface Geophysics Asia Pacific Conference was approved by five international geophysical societies.

This conference will focus on near-surface issues within the Asia Pacific region and provide a world-class forum to your new technical advances, developments and applications in near-surface geophysics.

We welcome submission of papers covering theoretical developments and case histories in the broad topic of near surface geophysics, including:

- Shallow Seismology
- Hydrogeophysics
- Ground Penetrating Radar
- Rock and Soil Properties
- Electric, EM and NMR Methods
- Borehole Geophysics
- Engineering Geophysics
- Modeling and Inversion
- Mining and Geothermal Exploration
- Geophysical Instruments
- Remote Sensing and Lidar Applications

Call for Papers

Abstract submission deadline: 11 April 2013
Advance registration deadline: 13 June 2013

Coorganized by:
Society of Exploration Geophysicists
Chinese Geophysical Society

COSPONSORED BY:
Australian Society of Exploration Geophysicists
Korean Society of Earth and Exploration Geophysicists
Society of Exploration Geophysicists of Japan

Organizing Committee:
John Bradford
Boise State University
Jian Guo
Chinese Geophysical Society
Koichi Suto
Terra Australis Geophysica Pty Ltd.
Myeong-Jong Yi
Korea Institute of Geoscience and Mineral Resources
Hiroaki Yamanaka
Tokyo Institute of Technology

Meeting Schedule
Tuesday, 16 July: Registration
Wednesday, 17 July–Friday, 19 July: Full day break-out sessions in the mornings and afternoons.
There will be a gala dinner on one of the evenings.

Exhibition
The Exhibit Hall will be open Wednesday, 17 July–Friday, 16 July. For more information on exhibiting at this conference contact semery@seg.org or cgs@cgs.org.cn

Abstract Format
Abstracts should include sufficient detail for the committee to judge the quality of the proposed presentation. Abstracts should be a 4-page extended abstract, in Times Roman font size 10-12 points. The title should be in bold font. Below the title, authors should be listed. Immediately below the list of authors, please give the affiliations and email addresses for all authors. All text must stay 1 inch clear of the margins of the page.

Meeting Venue
The Beijing International Convention Center will serve as the meeting venue.

www.seg.org/meetings/nsgapc13
Summer of Applied Geophysical Experience (SAGE) 2013 – Our 31st Year!

SAGE is a 3-4 week research and education program in exploration geophysics for graduate and undergraduate students and working professionals, based in Santa Fe, New Mexico, U.S.A.

SAGE students, faculty, teaching assistants and visiting scientists acquire, process and interpret reflection/refraction seismic, magnetotelluric (MT)/electromagnetic (EM), ground penetrating radar (GPR), gravity and magnetic data at a shallow archaeological site and at the sedimentary basin scale in the Rio Grande rift. SAGE 2013 will also emphasize a limited geothermal study in the rift. The Institute of Geophysics and Planetary Physics (IGPP) at the Los Alamos National Laboratory is sponsoring SAGE for its 31st year. The core program (all students) will be held Thursday, June 20 (arrival on Wednesday, June 19), through Thursday, July 11. The fee is $500 (room and meals provided), of which $100 is due with the application. International applicants: please e-mail georgia@lanl.gov for payment instructions.

Continued support from the U. S. National Science Foundation (NSF) Research Experience for Undergraduates (REU) program will allow us to extend SAGE extra days for undergraduate students who are U.S. citizens or permanent residents (PR). For students qualifying as U.S./PR undergraduates (REUs), SAGE will begin on Monday, June 17 (arrival on Sunday, June 16). For these students, stipend and travel support will be automatic if accepted, and the $500 fee will be waived. Room and meals are provided by the program. Non-REU students will be able to depart from SAGE after 1:00 p.m. on Thursday, July 11.

For REU students, SAGE will extend through evening dinner on Thursday, July 11 and departure will be by Noon on Friday, July 12.

Students should have a quantitative background and some introduction to geophysics, though they need not be geophysics majors. We particularly welcome math/physics majors and other students considering careers in geophysics. As an example, students should have successfully completed a minimum of one year (two semesters or three quarters) of physics (through electricity & magnetism) and a minimum of three semesters of calculus (four preferred). Structural geology and/or introductory geophysics are recommended but not required.

Applications are encouraged from qualified:

1) Potential REU students who are U.S. citizens or permanent residents who will have completed their junior year and the requisite physics and math before SAGE,
2) U.S. graduate students in all stages of their careers, and
3) International students and professionals.

Please note that the application deadline for SAGE 2013 is 5:00 p.m. MDT on Friday, March 29. Applications will be evaluated during the following week. We require a letter of interest, two references, proof of medical insurance, and complete transcripts documenting the required courses (unofficial copies are acceptable). See the SAGE web site for application and reference forms, and more detailed information.

If you have questions or need more information, please call the IGPP office at (505) 663-5291 or e-mail Georgia Sanchez georgia@lanl.gov. For further details and description of the program, please refer to http://www.sage.lanl.gov.
NSGS Membership

After the resolution of some technical and administrative problems with regard to membership registration and renewal, our numbers are again developing quite positively and we currently have over 400 members including about 50 students.

Please encourage your colleagues to join the NSGS. Membership for students is free! All NSGS members must, however, also be members of our mother society SEG.

NSGS membership exists in three classes based on the corresponding membership status with SEG:
- Active: active member of SEG (15$ / year)
- Affiliate: associate member of SEG (15$ / year)
- Student: student member of SEG (free!!!)

Membership applications can be found at: http://nsgs.seg.org/member-become.php
Post-Doctoral Fellowship and PhD Studentship in Carbon Sequestration Research at the Dublin Institute for Advanced Studies

The Dublin Institute for Advanced Studies invites applications for a 2-year Post-Doctoral Fellowship and a 4-year PhD studentship to undertake carbon sequestration research within an exciting, new research initiative - IRECCSEM (http://www.ireccsem.ie). IRECCSEM aims to develop, through innovative research, an understanding of Ireland’s (all-island) carbon sequestration potential through integrated modeling of new and existing geophysical and geological data, supported by the development of new multivariate modeling and inversion software tools. The research will be spearheaded by electromagnetic methods, principally magnetotellurics.

For the Fellowship we are seeking geophysicists experienced in either (i) magnetotellurics or (ii) carbon sequestration research, and preferably both, with skills in one or more of the following areas: multivariate data analysis; numerical and inverse code development; investigation and modeling of geophysical and petrophysical relationships (particularly porosity/permeability); geophysical data modeling. Extensive software programming knowledge and experience essential.

For the studentship, we are seeking highly motivated, numerate candidates with excellent academic records (minimum ECTS B grade, Upper-second) from a wide range of backgrounds (geophysics, geology, physics, applied mathematics and computational sciences). Experience in one or more of the following areas would be advantageous: geophysical data modeling (particularly magnetotellurics and controlled source EM), multivariate data analysis, and development of numerical inversion codes. Previous experience in carbon sequestration research, although beneficial, is not essential.

Proficiency in English is required. DIAS uses the same minimum criteria as UCD, which can be found at: https://my.ucd.ie/admission/english_requirement.ezc?pageID=1415

Both posts require participation in IRECCSEM’s extensive field data acquisition program over two Summers and provide for international travel to major conferences and broad scientific collaboration.

The nominal start dates for the positions are September 1st 2013 for the student, and April 1st 2014 for the Fellow, but these are negotiable.

Application Process:
Email the following information to geosecretary@cp.dias.ie:
(1) cover letter outlining your interest in the project (for PDF, highlight relevant experience and accomplishments),
(2) complete CV (with copies of publications or manuscripts submitted),
(3) academic transcripts,
(4) contact details of minimum three referees, and
(5) for PhD non-English first language applicants only, certification of English language proficiency, with IRECCSEM-PDF or IRECCSEM-PhD in the subject line as appropriate.

The Fellowship will be paid on a two-year, fixed-term contract starting at €33,975 plus benefits, with an annual increment. The studentship comes with a tax-free stipend of €18,000 plus fees for four years.

Applications received by 15 April 2013 will be considered first; the positions will remain open until filled. For greater details and more information, please view initially the IRECCSEM web site (www.ireccsem.ie), and then contact Professor Alan G. Jones (alan@cp.dias.ie).

GEOPHYSICIST: Alaska Division of Geological & Geophysical Surveys

The Alaska Division of Geological & Geophysical Surveys (DGGS) is seeking a senior-level geophysicist to support the division’s Strategic & Critical Minerals project, which is part of the Alaska Airborne Geophysical/Geological Mineral Inventory (AGGMI) program. The successful applicant will use advanced principles and knowledge of geophysics to provide professional scientific and operational management of multiple, applied airborne geophysical surveys, including magnetic, electromagnetic, and radiometric data acquisition, in support of statewide resource development and infrastructure-hazards assessment. The successful applicant will work independently and collaboratively in all aspects of project work, including participating in initial project concept development, writing and managing the components of geophysical survey contracts, quality checking the data and working with contractors to ensure contract compliance, and preparing digital data sets, documentation, and reports for publication. This position is located in Fairbanks, Alaska. This long-term, non-permanent position is expected to last at least one year, with the likelihood of an extension as funding allows.

The following knowledge, skills, abilities, and experience are REQUIRED for this position, in addition to the standard Required Minimum Job Qualifications for a Geologist IV. All of the items listed below must be documented in your cover letter and applicant profile. Please indicate if you do not have experience with one or more of the items listed below:
Senior Research Scientist in Geophysics

The successful applicant must have a PhD in geophysics and for the senior research scientist position a minimum of 3-4 years of documented research activity at an international level within this field. We seek a geophysicist with in-depth knowledge of geophysical methods applicable to groundwater and geological mapping in particular airborne electromagnetic methods. Utilization of geophysical data on both local and regional scales in relation to groundwater mapping is a key area of research. Thus, experience and interest in the interpretation of geophysical data jointly with other types of geoscientific data is considered important, and a solid knowledge of geology, statistical methods and other related methods is required.

Utilisation of airborne geophysical data has been an integral part of the activities at GEUS for a considerable period of time and is expected to remain a key topic for our national and international groundwater mapping activities in the future. The applicant is expected to participate in projects where airborne electromagnetic data play an important role. Solid understanding of the acquisition, processing and inversion of such data is therefore essential. Good collaboration skills and the ability to work in a large multi-disciplinary team are also considered important.

Furthermore, the applicant must be able to handle large amounts of geoscientific data in a structured and efficient way. Experience and skills in the use of modern computational methods and data visualisation software are required. We expect that the combination of geophysical models with 3D geological modelling will gain a stronger focus at GEUS in the future. We therefore seek a creative scientist who enjoys working both independently and as part of a team, and who is able to attract external funding in the form of research grants or other externally funded projects.

Formal applications marked “J. no. 031-00111” must be submitted to GEUS no later than the 10 of April 2013 at 12 midday (Danish time). Material received after this time will not be taken into account.

You can apply for the position via the GEUS website (http://www.geus.dk/geuspage-uk.htm) under Jobs.

Applications should include a statement of research interests, a CV, a list of all publications, copies of publications particularly relevant for the position (max. 3), and names and addresses of three references.