

# Letter From the President,

## Robert Jacob

Greetings NSGS members! I hope your summer went well, and you are settling into new endeavors or finding challenge and interest in on-going projects. We are looking forward to seeing many of you in late October at the SEG Annual Meeting.

SEG 2009 meeting will occur October 25-30, 2009 in Houston, TX. The technical program is complete and is highlighted in this newsletter. I know I speak for the Section when I thank Jan van der Kruk for putting together the Near Surface sessions. I would also like to thank Rick Miller and John Bradford for organizing the Post-Convention workshop on Near Surface Seismic and GPR which will be on Friday Oct 30; we hope to see many of you there.

On Tuesday Oct 27th , I would like to invite all of you to attend the Annual NSGS business meeting (at the Convention Center) followed by an evening social event held at Zula (~9 blocks from the Convention Center). These meetings are excellent opportunities to interact with your executive committee, not to mention a great time to catch up with friends and colleagues or meet new ones.

The Awards Committee and the Nomination Committee appreciate the nominations that we received and look forward to sharing the results with you at the Annual Meeting. Additionally, I also appreciate all of the time that our members have volunteered toward the section – reviewing abstracts for the Annual Meeting, reviewing manuscripts, moderating sessions at the Annual Meeting, and being on Section and Society committees.

This is my farewell letter as president. I look back at the year with enjoyment and am encouraged by the direction of the section and the leadership in the Executive Committee for the upcoming year. This year was more of stabilizing and growing previous initiatives instead of starting new ones. It is my hope that the section can sustain the momentum established over the past several years, and use that to continue advancing and aiding the near surface geophysical community. I also know that the only way to accomplish this ultimate goal is with the support and help of the

community. So in this last message from me as President, I would again call on you (as a member of our section) to volunteer, anything from serving on a SEG program committees – such as the Travel Grants or Project of Merits, being an advocate for NS at the Society level – to reviewing abstracts and serving on one of the NSGS standing committees. However, I imagine that many of you reading this already volunteer, so for you, I challenge you to not only continue but also to convince a colleague / friend to also volunteer.

For more information about NSG Section membership or volunteer opportunities, please contact me at [rob.jacob@bucknell.edu](mailto:rob.jacob@bucknell.edu). Remember, you can join, renew, or update your profile on the SEG website at any time. Go to <http://seg.org/> and click on “My SEG”.

Please do not hesitate to contact any of us if you have suggestions about the NSG section or would like to submit an interesting article on Near Surface Geophysics for the NS Views newsletter.

Best Wishes and I look forward to seeing you at upcoming meetings. And finally thank you for honoring me with the opportunity to serve the NSGS.

Cheers,  
Rob Jacob  
President, Near Surface Geophysics Section

# Geoscientists *Without Borders* Just Landed on Another Continent

Rhonda Jacobs, SEG Foundation Grant Programs Manager

Have you cursed the rain because it ruined your plans? What if all of your drinking water came from that rain? Now what if that rainfall is highly variable and you live in an arid climate? That is the state of things in many Aboriginal communities in remote and arid parts of South Central Australia, location of the newest Geoscientists *Without Borders* (GWB) project and the first for that continent. Four earlier projects are active in India, Indonesia, Honduras, and Thailand. Find out what is happening with each of these groundbreaking projects at [www.seg.org/GWBCurrent](http://www.seg.org/GWBCurrent).



*Cathy Skokan, professor at the Colorado School of Mines, and students conducting surveys to look for drinking water in the field in Honduras.*

After celebrating a full year in operation thanks to the initial funding of the program by Schlumberger, the Geoscientists *Without Borders* Committee recommended and the SEG Foundation approved a fifth project in the program. The University of Adelaide will partner with South Australian Water Corporation and Department of Water, Land and Biodiversity Conservation, South Australia. This program will address humanitarian needs by focusing on groundwater supplies in two key aboriginal communities; Nipanpanha (located about 500 km north of Adelaide) and the APY Lands in the far northwest of South Central Australia. About 27%

of Australia's aboriginal population lives in remote communities.

The program will determine optimal borehole locations for the development of sustainable groundwater resources. A long term benefit will also be the better understanding as to how magnetotelluric instruments can be deployed to collect data that may reduce the risk of drilling dry holes. Commissioning boreholes is expensive, given the depth to groundwater in basement rocks, and the distance to significant populations. Geophysicists all over the world know how disheartening a dry hole can be, especially when funding for such drilling is a very limited resource and the remoteness of the location increases the cost. Thus, by reducing this risk of drilling with geophysical surveys, the Aboriginal communities can significantly benefit from this project.



*Professor Graham Heinson of the University of Adelaide is project manager for the newest Geoscientists Without Borders project in the arid aboriginal lands of South Central Australia.*

It is fitting that the newest project is located in Australia. A new corporate commitment to SEG Foundation from Santos, Inc. headquartered in Australia, gave a significant boost to the Geoscientists *Without Borders* program at the end of 2008. Thanks go to Santos for their visionary support and to a number of individual SEG members who have donated directly to the program in the recent months.



*Members of the cooperative partners for the project awarded to GeoHazards International for work in Padang, West Sumatra. Pictured left to right are Kelly Wood, Stanford intern, Abdul Muhari, tsunami*

*modeler for the Ministry of Marine Affairs and Fisheries, Subandono Diposaptono, Director for Coastal and Ocean for Marine Affairs and Fisheries, Enggar Sadtopo, Head of Coastal Disaster Mitigation Section for the Ministry of Marine Affairs and Fisheries, Veronica Cedillos, GHI Project Manager, and Scott Henderson, Stanford intern.*

To view the first four awarded projects that are off to a great start, you may follow their progress on the SEG Website at [www.seg.org/GWBcurrent](http://www.seg.org/GWBcurrent). If you attend the SEG Annual Meeting in Houston in October, please make plans to stop by the Geoscientists *Without* Borders Booth inside the SEG Pavilion in the exhibit hall. Project managers from four of the current projects will be at the booth during the ice breaker and at other times during the meeting. Stop by and chat with them to learn the latest news on their projects.



*Project Manager, Stephen Moysey of Clemson University (far right) is working within the local community structures and with institutions to ensure future sustainability in India such as the Foundation for Ecological Security and Indian NGO.*

SEG Foundation is actively working to expand this thriving, dynamic program to new continents with additional funding commitments. Geoscientists *Without* Borders continues to explore new ways to bridge humanitarian needs with industry research, opportunities, and emerging funding.

View GWB's recent press coverage at [www.seg.org/gwb](http://www.seg.org/gwb)



*Students from Chiang Mai University in Thailand along with other students in the SE Asia region are learning field geophysical techniques to be applied to humanitarian projects starting with the very basics. Boise State University professors and students are lead partners in the project.*

# Review of the SEG Post-Convention IP Workshop, 2008

**November 14, 2008**

The post-convention workshop on "Induced Polarization: Research and Recent Advances in Near Surface Applications" was jointly sponsored by SEG Near Surface Geophysics Section (NSGS) and the Environmental and Engineering Geophysical Society (EEGS). This intensive one day workshop explored the past, present and future prospects of an important tool for geophysicists that has recently reemerged as a technology for exploring near surface properties and processes.

The workshop began with a historical/tutorial discussion of the induced polarization (IP) technique presented by the coorganizers. A series of invited speakers from the US and Europe subsequently presented talks on [i] recent research in IP data acquisition, [ii] rock properties, theory and laboratory studies of IP, [iii] inverse modeling and imaging of IP data, and [iv] novel near surface applications of the technique. The workshop concluded with an audience discussion of the material presented and a summary with recommendations for further research. The workshop was unique in that the majority of the talks focused on emerging environmental applications of the technique outside of the more established use of the method for minerals exploration. These environmental applications included imaging lithologic and hydraulic variability, estimating hydraulic properties, monitoring geochemical and microbial processes and investigating landfills. The workshop was presented to an engaged audience of 49 attendees.

The international community of eight invited speakers was composed of Philippe Cosenza (Université Pierre et Marie CURIE, France), Torleif Dahlin (Lund University, Sweden), Andreas Weller (Technische Universität Clausthal, Germany), Andreas Kemna (University of Bonn, Germany), Yuxin Wu (Lawrence Berkeley Laboratory, USA), Dimitrios Ntarlagiannis (Rutgers University-Newark, USA), Andreas Hoerdts (Technical University Braunschweig, Germany) and Norman Carlson (Zonge Engineering and Research Inc., USA). The workshop coorganizers were Esben Auken (University of Aarhus), Douglas LaBrecque (Multi Phase Technologies) and Lee Slater (Rutgers University-Newark).

# SEG 2009 -- Houston, TX

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## Near Surface Sessions Update

There will be 5 near-surface sessions at SEG. A full list of papers and speakers can be found [here](#).

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## NSG Section Meeting and Reception

This year's NSGS business meeting is divided in half. The first part will be the formal transition between the 2008/2009 executive committee and 2009/2010 executive committee, followed by a look forward to the upcoming year for NSGS. This meeting will be held on Tuesday, October 27th from 4-6 pm at the George R. Brown Convention Center in Room 320C. All NSGS members are welcome.

The afternoon meeting will be followed by a less formal meeting and reception at 6:30 pm at Zula restaurant (705 Main St. #B, second floor) and will include a summary of this past year, member discussion with the NSGS executive committee, and awards followed by plenty of socializing (drinks and light dinner will be available). The evening meeting/reception is free to NSGS members and non-members can join on the spot. Students are welcome!

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## Near Surface Seismology and GPR Workshop

October 30

Houston, TX

Technologies used in the application of near surface seismology and ground penetrating radar (GPR) have seen significant advances over the last several years.

Both methods have benefited from new processing tools, increased computer speeds, and an expanded variety of applications. Many shallow seismic projects now incorporate analysis results from different parts of the seismic wavefield allowing greater redundancy and confidence in interpretations without increased acquisition costs. More information is being extracted from GPR data by utilizing the wide range of analysis techniques developed for seismic data in concert with new tools specific to electromagnetic wave analysis.

It is fitting that these two geophysical techniques share the stage for a workshop that focuses on the highlights of an ever-increasing number of near surface studies taking advantage of the wide range of processing and analysis approaches applicable to both. This workshop is designed to bring the best of the past decade, state-of-the-practice applications of today, and visions for the next decade together providing practitioners and researchers with a unique opportunity to interact and share experiences.

In association with the workshop we are planning to produce a refereed book under a cooperative effort by SEG, EAGE, AGU, and EEGS. At this time, we are planning on a volume that will include around 40 papers from authors presenting at the workshop as well as others invited to increase the breadth of this volume.

Please plan to attend this first of what is hoped to be a workshop series. If you have any questions or comments feel free to contact anyone of us on the organizing committee: Rick Miller, John Bradford, Klaus Holliger, Greg Baker, and Alan Levander.

### **Tennative Speakers Include**

#### *Methodology*

Jianghai Xia, Kansas Geological Survey, USA, “Surface wave imaging/material characterization with Love and Rayleigh waves”

Colin Zelt, Rice University, USA, “Frequency-dependent travelttime tomography for near-surface studies”

James Irving, University of Lausanne, Switzerland, “Estimation of the lateral correlation structure of subsurface velocity heterogeneity from surface-based geophysical reflection images”

Sébastien Lambot, Université catholique de Louvain, Belgium, “GPR inversion for soil water content estimation”

### *Theory*

Partha Routh, ConocoPhillips, USA, "GPR Scattering Theory"

Gerhard Pratt, Queen's University, Canada, "Seismic Waveform Inversion"

Jan van der Kruk, Institute of Chemistry and Dynamics of the Geosphere, Forschungszentrum Jülich, Germany, "Towards true-amplitude migration of GPR data using exact radiation patterns"

### *Integration*

Erwan Gloaguen, Institut national de la recherche scientifique (INRS), Canada, "Bayesian data integration using stochastic tomographies and high-resolution hydrogeological logs"

### *Case Studies*

Andre Pugin, Geological Survey Canada, "Unconsolidated sediment mapping using multi-component seismic reflection data"

Lee Liberty, Boise State University, USA, "Near-surface seismic reflection methods in an urban environment"

# SEG 2009 -- Near Surface Sessions

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## NSE P1 -- Seismics

Monday, October 26, 2009

Session Chairs: John H Bradford and H.C. Clark

**1:30 PM** *Influence of time-variant near-surface structure and piece-jointed static correction technique*

Z. Deng, X. Bai\*, C. Tang, H. Li, and Y. Sun, BGP

**1:50 PM** *A new statics method for exceedingly thick near-surface structure*

Y. Lan\*, X. Wang, D. Wei, M. Sun, and Z. Jin, BGP CNPC

**2:10 PM** *Joint application of tomography and multidomain static corrections*

Z. Yan\*, Z. Feng, X. Yang, Y. Zu, X. Hou, and Q. Ma, BGP CNPC

**2:30 PM** *Study of near-surface layer effects in reflection seismic exploration from the dynamics point of view*

C. Lu\*, Y. Ling, J. Gao, D. Sun, and J. Lin, BGP CNPC

**2:50 PM** *A method of estimating near-surface velocity models with rugged topography using refraction traveltimes*

X. Ren\*, X. Zhou, H. Li, G. Ma, and J. Zhang, BGP

**3:10 PM** *Diffraction imaging versus reflection processing for shallow void detection*

Shelby Peterie\* and Richard Miller, Kansas Geological Survey; Don Steeples, U of Kansas

**3:30 PM** *Modeling results on detectability of shallow tunnels using Rayleigh-wave diffraction*

C. Zeng\*, J. Xia, and R.D. Miller, Kansas Geological Survey; G.P. Tsoflias, U of Kansas

**3:50 PM** *Automated geophone deployment on pavement for high resolution seismic reflection investigations in support of transportation infrastructure projects*

Brian Miller\*, George Tsoflias, and Don Steeples, U of Kansas

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## NSE P2 -- Inversion and Engineering Applications

Tuesday, October 27, 2009

Session Chairs: Robert W Jacob and Julian Ivanov

**9:20 AM** *DC resistivity sensitivity for tilted transversely isotropic media*

T. Wiese\*, S. Greenhalgh, B. Zhou, and M. Greenhalgh, U of Adelaide; L. Marescot, ETH Zurich

**9:40 AM** *Numerical evaluation of 3D geoelectrical resistivity imaging for environmental and engineering investigations using orthogonal 2D profiles*

A.P. Aizebeokhai\*, Covenant U; A.I. Olayinka, U of Ibadan; V.S. Singh, Nat'l Geophysical Research Inst

**10:00 AM** *EM phase velocity dispersion in a surficial concrete slab*

Luis Peche and Jandyr Travassos\*, Observatório Nacional-Brasil

**10:20 AM** *Archaeological investigation of the Court Kiva in Chaco Canyon using geophysical methods*

C. Martinez\*, A. Dean, and E. Goggin, Colorado School of Mines; B.K. Todd, U of Colorado; R.A. Krahenbuhl, Colorado School of Mines

**10:40 AM** *Near-surface evaluation of Ball Mountain Dam, Vermont, using multichannel analysis of surface waves and refraction tomography seismic methods on land-streamer data*

J. Ivanov\*, Kansas Geological Survey; C.D. Johnson and J.W. Lane, USGS; R.D. Miller, Kansas Geological Survey; D. Clemens, US Army Corps of Engineers

**11:00 AM** *Inversion of multichannel data with rotated kernels*

Andy Kass\*, Trevor Irons, and Yaoguo Li, Colorado School of Mines

**11:20 AM** *Enhancement of magnetic data by stable downward continuation for UXO applications*

Yaoguo Li and Sarah Devriese\*, Center for Gravity Electrical, and Magnetic Studies, Department of Geophysics, Colorado School of Mines

**11:40 AM** *Discrimination between scrap metal and buried UXO using spatial derivatives of TEM response*

Michael Asten\*, Flagstaff; Sam Fogarty and Andrew Duncan, Electromagnetic Imaging Technology

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## NSE P3 -- Environmental and Engineering Applications

Tuesday, October 27, 2009

Session Chairs: Steve H Danbom and Ben Sternberg

**1:30 PM** *The AMD and the geomagnetic anomalies on metalliferous waste dumps*

Cezar Iacob, U of Bucharest

**1:50 PM** *Delineation by seismic attributes of fracture patterns in a 3D GPR data volume*

Oswaldo Davogustto\* and Roger Young, U of Oklahoma; Ibrahim Cemen, Oklahoma State U

**2:10 PM** *Multisensor utility mapping in all soils*

G. Young\*, Underground Imaging; D. Hanson and K. Sjostrom, Vermeer Underground; R. Jones, Sagentia; J. Clark, Corona Resources

**2:30 PM** *Controlled source audio frequency domain magnetics for seepage diagnosis of Laurel Bed Dam in southwest Virginia, USA*

M. J. Wallace\*, J. R. Montgomery, V. O. Kofoed, and M. L. Jessop, Willowstick Technologies

**3:10 PM** *Shallow seismic surveys in areas with waste dumps from Romania*

Stan Ioana, U of Bucharest

**3:30 PM** *The influence of modern sedimentary channel on seismic data and the investigation methods*

S. Cui\*, Z. Deng, C. Liu, and Y. Zhan, BGP CNPC

**3:50 PM** *Joint evaluation of gravity and geoelectric methods for groundwater exploration in western ZZ area*

L. He\*, X. Mi, Y. Wang, and L. Ji, BGP

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## NSE 1 -- Seismics

Wednesday, October 28, 2009

Session Chairs: Richard D Miller and Partha S Routh

**8:30 AM** *Automating the acquisition of 3D near-surface seismic reflection data*

S.D. Sloan\*, US Army ERDC; D.W. Steeples and G.P. Tsoflias, U of Kansas; M.H. McKenna, US Army ERDC

**8:55 AM** *The separation of P-wave and S-wave from crosswell seismic data and application*

J. Liu and X. Zeng, China U of Geosciences; J. Xia, U of Kansas; S. Charles, China U of Geosciences

**9:20 AM** *VSP survey in a shallow well using a small vibrator source*

J. Wong\*, S.K. Miong, R.R. Stewart, E.V. Gallant, and K.W. Hall, U of Calgary

**9:45 AM** *Near-surface utility of vibroseis*

R. D. Miller\*, J. Xia, D. Rice, S. L. Walters, and T. R. Rademacker, Kansas Geological Survey

**10:10 AM** *2D deformable-layer tomostatics with the joint use of first breaks and shallow reflections*

P. Li\*, Z. Yan, M. Guo, BGP; H. Zhou, Texas Tech U

**10:35 AM** *Positioning-error correction for densely sampled high-resolution seismic data recorded with water-bottom cable*

Nihed El Allouche\*, Guy Drijkoningen, and Joost van der Neut, Delft U

**11:00 AM** *The virtual refraction: A case study at the Boise Hydrogeophysical Research Site*

Joshua Nichols\*, Dylan Mikesell, and Kasper van Wijk, Boise State U

**11:25 AM** *Refraction interferometry for numerical surface seismic experiments*

D. Mikesell and K. van Wijk, Boise State U; A. Calvert, ION-GX; M. Haney, USGS Alaska Volcano Observatory

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## **NSE 2 -- Hydrogeophysics & Environmental Applications**

Wednesday, October 28, 2009

Session Chairs: R. W Groom and Jan van der Kruk

**1:30 PM** *Seepage diagnosis of earthen embankments with controlled source audio frequency domain magnetics*

M. J. Wallace\*, J. R. Montgomery, V. O. Kofoed, and M. L. Jessop, Willowstick Technologies

**1:55 PM** *High-resolution helicopter survey for infrastructure and contamination sources*

L.P. Beard\*, T.J. Gamey, W.E. Doll, J.R. Sheehan, and J. Norton, Battelle; M. Siwiak, ENSR

**2:20 PM** *Controlled changes in grain size and pore characteristics and their impact on the hydraulic conductivity and spectral induced polarization response of proxies of alluvial sediments*

K. Koch, J. Irving, and K. Holliger\*, U of Lausanne; A. Kemna, U of Bonn

**2:45 PM** *Evaluation of the viability and robustness of an iterative deconvolution approach for estimating the source wavelet during waveform inversion of crosshole ground-penetrating radar data*

F. Belina, J. Irving, and K. Holliger\*, U of Lausanne; J. Ernst, UBS

**3:10 PM** *Parameter estimation for unsaturated soil hydraulic properties using full-waveform hydrogeophysical inversion of time-lapse GPR data*

K. Z. Jadoon\*, S. Lambot, H. Verrecken, Agrosphere; E. Slob, Delft U

**3:35 PM** *Constraints on the permeability structure of alluvial aquifers from P-wave sonic logs*

Ludovic Baron and Klaus Holliger\*, U of Lausanne

**4:00 PM** *Inversion of Rayleigh waves recorded on pyroclastic deposits at Augustine volcano*

Matthew Haney, Cyrus Read, and Tom Parker, USGS Alaska Volcano Observatory

**4:25 PM** *Estimation of near-surface shear-wave velocity by inversion of Love waves*

J. Xia\*, Kansas Geological Survey; R. Cakir, Washington State Dept. of Natural Resources; R. Miller and C. Zeng, Kansas Geological Survey; Y. Luo, China U of Geosciences

# Upcoming Meetings & Deadlines

## American Geophysical Union (AGU) Fall Meeting

December 14 - 18, 2009

San Francisco, California

Abstract submissions are now closed.

More information can be found at <http://www.agu.org/meetings/fm09/>

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## German Geophysical Society (DGG) Conference

March 15 - 18, 2010

Bochum, Germany

More information can be found at <http://www.dgg2010.ruhr-uni-bochum.de/en>  
(Information in German).

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## Symposium on the Application of Geophysics to Environmental and Engineering Problems (SAGEEP)

April 11 - 15, 2010

Keystone, Colorado

More information can be found at <http://www.eegs.org/>.

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## European Geosciences Union General Assembly (EGU)

May 2 - 7, 2010

Vienna, Austria

Abstract deadline is January 18, 2010

More information can be found at <http://meetings.copernicus.org/egu2010/>.

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## **4th International Conference on Environmental and Engineering Geophysics (ICEEG2010)**

June 14 - 17, 2010

Chengdu, China

Abstract deadline is December 31, 2009 to [yechengming@cdut.edu.cn](mailto:yechengming@cdut.edu.cn).

ICEEG2010 will be held on the campus of Chengdu University of Technology, Chengdu, China. Conference topics will cover the entire spectrum of near-surface geophysical methods and applications. More information can be found at <http://www.iceeg.cn/>

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## **XIII International Conference on Ground Penetrating Radar (GPR 2010)**

June 21 - 25, 2010

Lecce, Italy

Abstract deadline is January 15, 2010

More information can be found at <http://www.ibam.cnr.it/gpr2010/>.

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## **AGU Western Pacific Geophysics Meeting (WPGM)**

June 22 - 25, 2010

Taipei, Taiwan

More information can be found at <http://www.agu.org/meetings/wp10/>.

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## **International Conference on Computational Methods in Water Resources (CMWR 2010)**

June 21 - 24, 2010

Barcelona, Spain

Abstract submissions are now closed.

More information can be found at <http://congress.cimne.com/CMWR2010>.

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## **The Meeting of the Americas (AGU joint assembly)**

August 8 - 13, 2010

Foz do Iguassu, Brazil

More information can be found at <http://www.agu.org/meetings/ja10/>.

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## **Society of Exploration Geophysicists (SEG)**

October 17-22 , 2010

Denver, Colorado

More information can be found at <http://www.seg.org>.

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# Near Surface in Journals

## TLE Hydrogeophysics Special Section

Coming in October, TLE's special section theme will be hydrogeophysics. With the cornucopia of geophysical methods and applications currently directed at water problems it is only fitting that five of the six papers that make up this section discuss unique methods (i.e. NMR, GPR, borehole and surface seismic, and resistivity). All of these papers are authored by some of the most well known and established of our colleagues working in these research specialties. The special section in the October issue of TLE is the first of several topic specific special publications due out over the next year on hydrogeophysics. An upcoming issue of EAGE's *Near Surface Geophysics* will have a hydrogeophysics focus. A July-August 2010 supplement to *Geophysics* is currently underdevelopment with a hydrogeophysics theme, specifically targeting electrical methods. Each of the six papers in the October TLE reports on pertinent developing technologies or application of tried and true technologies to very unique water questions.

# Call For Nominations

## EEGS / Geonics Early Career Award

Nomination Deadline: October 31, 2009

The Environmental and Engineering Geophysical Society and Geonics Limited are pleased to announce that nominations are now open for the 2010 EEGS / Geonics Early Career Award, which acknowledges academic excellence and encourages research in near-surface geophysics. The award is presented annually at SAGEEP to a **full-time university faculty member** who, by the nomination deadline is

- fewer than five years beyond the starting date of his or her current academic appointment
- within ten years post-completion of his or her Ph.D.

The award acknowledges significant and ongoing contributions to the discipline of environmental and engineering geophysics. The recipient may have any specialty that is recognized as part of the environmental and engineering geophysics discipline. This specialty is not restricted to departments, colleges, or geographic regions (international applicants are welcome). A committee of five members (three university faculty, one corporate or consulting representative, and one government laboratory representative), appointed by the EEGS Board, is responsible for selecting the awardee.

The award carries the following benefits:

- Free registration to the SAGEEP conference at which the award will be presented
- A plaque, suitable for display
- A \$1000 cash award
- A 45-minute time slot to present the awardee's research and vision at SAGEEP
- The citation and, if available, the awardee's presentation, is published in **FastTIMES** and distributed to cooperating societies

The awardee will be expected to be present during the technical core of SAGEEP 2010 in Keystone, Colorado. Nominations should be sent electronically to:

Dr. Mel Best, Chair of the Early Career Award Committee  
3701 Wild Berry Bend  
Victoria, B.C. V9C 4M7 CANADA  
[best@islandnet.com](mailto:best@islandnet.com)

Nomination packages must include:

- A comprehensive vitae for the candidate
- A letter of recommendation outlining the candidate's qualifications for the award
- Copies or pdf files of three representative publications