

PRELIMINARY PROGRAM

EEGS ANNUAL MEETING PHILADELPHIA



Photo by J. Handley for GFTMC

CONFERENCE HIGHLIGHTS

New! – Environmental & Engineering Geophysicists University (EEGU) track. Overview level, semi-technical sessions of geophysical approaches to engineering and environmental problems for non-geophysicists, managers, regulators, and new students

- Oral & Poster Presentations
- Short Courses
 - Borehole Geophysical and Hydrophysical Logging for Environmental and Geotechnical Applications - Introductory and Advanced Courses
 - Surface Waves are for Everyone
 - Demystifying the Art and Science of GPR
 - Geophysics applied to foundations analysis: integration of electrical and EM surface/borehole methods with seismics
- Keynote Speaker: Dr. Robin Bell, Doherty Senior Research Scientist at Lamont-Doherty
- Luncheon Speakers: William P. Owen, California Department of Transportation and the inaugural recipient of the EEGS/Geonics Young Investigator Award
- Outdoor Demonstrations on the grounds of Independence Hall
- Full Day and Half Day Field Trips
- Evening Gala at Constitution Center
- And Much More!

21st SAGEEP

SYMPOSIUM ON THE APPLICATION OF GEOPHYSICS
TO ENGINEERING AND ENVIRONMENTAL PROBLEMS

**New Partnerships,
New Discoveries**

April 6-10, 2008

**Marriott Philadelphia Downtown
Philadelphia, Pennsylvania**



INVITATION TO ATTEND



DEAR COLLEAGUES:

I am pleased to invite you to Philadelphia for the 21th Annual Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP) to be held April 6 – 10th, 2008. This year, we celebrate our 21th anniversary – SAGEEP comes of age!

Technical Chair Ron Kaufman has assembled a broad technical program from the over 170 abstracts that were submitted. Over 20 sessions are planned covering a diversity of topics. Examples include “The Future of Geophysical Technology,” “Innovative Seismic Applications,” “Marine and Beach Geophysics,” and a special session devoted to best papers from the near-surface geophysics meeting held in Istanbul, Turkey last September. Posters will continue to be a visible component of the technical program, including special overview sessions where authors can present a short oral summary to entice you to visit their poster.

Between talks be sure to visit the exhibit hall. There will be over 40 exhibitors in attendance to talk with you about the latest developments in instrumentation, software, and services. You can see the equipment in action by attending the free exhibitor demonstration, to be held in the grassy field in front of famous Independence Hall in downtown Philadelphia, only short walk (0.5 miles, or 0.8 km) from the hotel and right next to the Liberty Bell!

The keynote presentation will be made by Dr. Robin Bell of Lamont-Doherty Earth Observatory. Dr. Bell’s research involves the geophysical characterization of subglacial lakes, including Lake Vostok, a freshwater lake the size of Lake Ontario beneath 4000 m of ice in central Antarctica. Researchers believe the unusually oxygen-rich lake waters may be home to life that followed a distinct evolutionary path during the 500,000 to 25 million years the lake waters have been isolated from the surface. From imaging by satellite, airborne gravity, and ground penetrating radar, we now know that there are more than 150 lakes under the Antarctic ice sheets. Come to Dr. Bell’s talk to learn more about the Radars of the Lost Lake.

The Business and Technical luncheons are regular SAGEEP features. The Business Luncheon will feature Bill Owen from the Geophysics and Geology Branch of the California Department of Transportation. Bill heads a multidisciplinary team of engineers, geologists and technicians who conduct geophysical surveys throughout the state of California in support of geotechnical engineering investigations for highway maintenance, construction, and structure design. Come to learn how you can help your own state’s DOT become a savvy user of geophysics. New this year, our Technical Luncheon speaker is the to-be-announced winner of the EEGS/Geonics Early Career Award to be given to a new faculty member whose research in near-surface geophysics shows exceptional promise. Come and meet the winner; I won’t spoil the surprise.

We have two field trips lined up this year. Those who arrive early can unwind on Sunday afternoon with a leisurely bicycle tour of the geology of Philadelphia (bicycle and helmet rental included). The tour will include a visit to the historic Philadelphia Water Works, the most advanced in the world in early 1800’s. Funded by bequest in the will of Benjamin Franklin, who had noted that, “In Philadelphia everyone has a cistern and a well, and the two are becoming indistinguishable.” Thursday’s field trip should be a real treat for history buffs: “The Gettysburg Battlefield: Geology’s Impact Upon Military History.” From the Jurassic diabase underlying Seminary and Cemetery Ridges, to the soft red shale and sandstone under the lowlands, geology sculpted the terrain that controlled this pivotal battle in the American Civil War. I plan to be on the bus, so you had better book early to get one of the remaining seats!

For those who want to learn more about specific topics from leaders in their field, we are featuring five professional education short courses – both Introductory and Advanced. They are “Surface Waves are for Everyone,” “Integrated Subsurface Evaluation,” “Demystifying the Art and Science of GPR,” “Geophysics Applied to Foundations Analysis,” and “Borehole Geophysical and Hydrophysical Logging for Environmental and Geotechnical Applications.” More detailed descriptions of these courses are included in this brochure to help you select those of interest to you.

On Tuesday night, join us for a gala dinner at the National Constitution Center, a museum devoted to the U.S. Constitution and the story of We The People. The evening will include the usual cocktails (cash bar), dinner, music – with dancing this year - and the chance to relax with old friends and make new ones; but, your ticket also includes private admission to DeVos Hall, which has over 100 interactive exhibits detailing the role of the U.S. Constitution in history. You can vote for your all-time favorite president, and through the magic of blue-screen technology, you can even take the oath of office yourself!

Philadelphia offers affordable fine dining within an easy walk from the hotel (I love Chinatown and the Reading Terminal Market), and many additional attractions for visitors, including the Philadelphia Mint, the Franklin Institute, the Philadelphia Museum of Art, the Betsy Ross House, and the Tomb of the Unknown Soldier. I hope you agree that SAGEEP 2008 will be something special. Please complete and submit your registration form and make your hotel reservations as soon as possible.

See you in Philadelphia!

Jonathan Nyquist

SAGEEP 2008 General Chair

2008 PRELIMINARY PROGRAM

Saturday April 5, 2008

All Day

SC-1: Surface Waves Are for Everyone (Active and Passive MASW) Instructor: Julian Ivanov, Kansas Geological Survey and Geometrics, Inc.

All Day

SC-2: Two Day Introductory Course: Borehole Geophysical and Hydrophysical Logging for Environmental and Geotechnical Applications Instructor: William Pedler, RAS, Integrated Subsurface Evaluation

Sunday April 6, 2008

All Day

SC-2: Day Two of Introductory Course: Borehole Geophysical and Hydrophysical Logging for Environmental and Geotechnical Applications Instructor: William Pedler, RAS, Integrated Subsurface Evaluation

All Day

SC-3: Demystifying the Art and Science of GPR Instructor: Cynthia A. Burton, CAB Ventures, Inc., Independent Training and Technical Support Contractor, Authorized GSSI Training Specialist

Afternoon

Bicycle Tour of the Geology and Hydrology of Philadelphia

Evening

Ice Breaker

Student Event – Meet, Greet and Bowl at Lucky Strike Lanes

Monday April 7, 2008

Morning

Awards and Keynote Session:
Exploring Our Changing Poles, Dr. Robin Bell

Coffee in Exhibit Hall

Session Room 1

Session Room 2

Session Room 3

The Future of Geophysical Technology I

Innovative Seismic Applications I

Poster I Overviews

Lunch

Technical Luncheon Speaker: EEGS/Geonics Early Career Inaugural Award Recipient

Afternoon

The Future of Geophysical Technology II

Innovative Seismic Applications II

Groundwater I

EEGU – What is Environmental and Engineering Geophysics, and What Can It Do for You?

Coffee in Exhibit Hall

Late Afternoon

Exhibitors' Outdoor Demonstrations at Independence Hall

Tuesday April 8, 2008

Morning

EEGU – Geophysics for Water Resource and Contaminants

Airborne Geophysics

Levees and Dams

Seismic Surface Waves I

Coffee in Exhibit Hall

Lunch

Electromagnetics

Environmental Geophysics

Seismic Surface Waves II

Afternoon

Business Luncheon: Geophysics and Transportation Projects: Goals, Trends and Partnerships, William P. Owen

EEGU – Geophysics for Water Resource and Contaminants

Archaeology

Unique Developments in Electrical Methods

Non-Destructive Testing

Coffee in Exhibit Hall

Evening

Borehole Geophysics

Electrical Methods / GPR

Groundwater II

Social Event – Evening at the National Constitution Center

Wednesday April 9, 2008

Morning

EEGU – Geophysics for Engineering, Transportation, Hazards, and UXO Investigations

UXO

Poster II Overviews

Karst & Tunnel Detection

Coffee in Exhibit Hall

Lunch

Special Challenges in Surface Wave Processing

Marine & Beach Geophysics I

Geologic Hazards

On Your Own

Afternoon

EEGU – Geophysics for Engineering, Transportation, Hazards, and UXO Investigations

Experimental Geophysics

Marine & Beach Geophysics II

Best of NSG Papers/NSGD Meeting – Istanbul, Turkey

Coffee in Exhibit Hall

Evening

Resistivity Imaging

Geophysical Case Histories

Town Hall Meeting

Thursday April 10, 2008

All Day

Full Day Field Trip: Gettysburg National Park

SC-4: Geophysics applied to foundations analysis: integration of electrical and EM surface/borehole methods with seismics Instructors: Gianfranco Morelli, Geostudi astier srl, Claudio Strobbia and Carlo Lai – eucentre, Douglas LaBrecque, Multi-Phase Technologies

SC-5: Borehole Geophysical and Hydrophysical Logging for Environmental and Geotechnical Applications Instructor: William Pedler, RAS, Integrated Subsurface Evaluation

Note: This is a Preliminary Program and subject to change. Please do not make travel arrangements based on this schedule.

INVITED SPEAKERS

SAGEEP 2008 KEYNOTE LECTURE

Monday, April 7, 2008

Dr. Robin Elizabeth Bell



Dr. Bell, Director, ADVANCE Program at the Earth Institute Lamont-Doherty Earth Observatory of Columbia University, is Doherty Senior Research Scientist at Lamont-Doherty.

Exploring Our Changing Poles

Earth science revolves around the study of our changing planet. The International Polar Year (IPY) 2007-2008 is the largest coordinated effort to understand the polar regions in our lifetime. Propelled forward by the sense of planetary change and a sense of discovery, IPY 2007-2008 will be the largest internationally coordinated research program in 50 years, actively engaging over 50,000 scientists from 62 nations. IPY 2007-2008 is motivated both by the need to improve our understanding of this changing planet and by a quest to explore still unknown frontiers, especially those beneath the extensive but changing polar ice sheets.

In the past decade, the widespread presence of water beneath the ice sheet has become increasingly clear, water in subglacial lakes, rivers and even swamps. We now know there are more than 150 lakes under the Antarctic ice sheets. The volume of subglacial water is close to 30% of the amount of water in the surface lakes on all the other continents. This water is not stagnant but has been captured cascading between lakes and draining into the oceans. Imaging these lakes from space and aerogeophysical aircraft we have linked this rich subglacial hydrosphere to dynamic ice sheet processes.

TECHNICAL LUNCHEON

Monday, April 7, 2008 at Noon

EEGS/Geonics Young Investigator Award Recipient

The inaugural recipient of the EEGS/Geonics annual Young Investigator Award will deliver the Technical Luncheon talk. Adding to the level of excitement at this year's luncheon is the fact that the award recipient has not yet been announced – please join fellow SAGEEP attendees to listen to the presentation and learn who has been awarded the prestigious Young Investigator Award for academic excellence that also encourages research in near surface geophysics.

BUSINESS LUNCHEON

Tuesday, April 8, 2008 at Noon

Geophysics and Transportation Projects: Goals, Trends and Partnerships

William P. Owen, PG, PGP, CEG

Senior Engineering Geologist, Geophysics and Geology Branch
California Department of Transportation

Mr. Owen will present California's experience with the use of geophysics for transportation projects, the current state of practice within the state DOT's and efforts at standardization, and will discuss his views on future trends within the transportation field.

NEW EDUCATIONAL OPPORTUNITY

Environmental & Engineering Geophysical University (co-sponsored by the U.S. Department of Energy)

EEGU consists of classroom-style sessions intended for non-geophysicists concurrent with the main technical sessions (Monday through Wednesday). Session topics include: What is Environmental and Engineering Geophysics and What Can It Do for You? (Monday), Geophysics for Water Resources and Contaminants (Tuesday), and Geophysics in Engineering, Transportation, Hazards, and UXO Investigations (Wednesday). Well-known and engaging instructors will present overviews of geophysical approaches to engineering and environmental problems to an intended audience of managers, regulators, environmental and engineering consultants, students, and educators. Registration is limited to non-presenting, first-time SAGEEP attendees and is first-come, first-served. Single- or multiple-day registrations are welcome.

EARLY-BIRD REGISTRATION DEADLINE MARCH 14, 2008

Register Online at www.eegs.org

2008 SHORT COURSE SUMMARY

The following short courses include full course notes, continental breakfast, and morning and afternoon refreshments.

SC-1: Saturday, April 5, 2008

Surface Waves Are for Everyone (Active and Passive MASW)

Instructor: Julian Ivanov, Kansas
Geological Survey and Geometrics, Inc.

Time: 8:00 am to 5:00 pm

This one-day short course focuses on the practical applications of the multi-channel analysis of surface waves (MASW) method, presenting the most current approaches to both active and passive estimations of 1-D and 2-D shear-wave velocity (Vs) profiles to depths of a few tens of meters using surface waves. The short course will include: a brief theoretical overview and field procedures to ensure success, software practice using a sample data set, a brief field work session using the Geometrics Geode seismograph to demonstrate field procedures and acquire actual field data, and processing of the field data you acquire. New this year, participants will be introduced to some of the latest developments in MASW analysis, including multi-mode inversion and sensitivity analysis. Also, discussions about future developments such as 2-D inversion, modeling, and optimized wavelet transform will provide significant food for thought. The goal of the short course is to build a sufficient understanding that participants are confident in applying the MASW method in their work. Students are encouraged to bring a Windows 2K/XP notebook/laptop computer, which can have the screen resolution set to 1024 x 768 or better, to process short course data. Participants will be provided a 14-day license of SurfSeis 2.05 software. Please, be prepared to disable active virus protection software during installation.

SC-3: Sunday, April 6, 2008

Demystifying the Art and Science of GPR

Instructor: Cynthia A. Burton, CAB Ventures, Inc.,
Independent Training and Technical Support Contractor,
Authorized GSSI Training Specialist

Time: 8:00 am to 5:00 pm

This one day short course will help to unravel the complexities of GPR. Oftentimes, GPR can appear to work and other times to not work! In actuality, it always works... Let's find out why it sometimes can appear not to work and give you some tools and insights for maximizing the situations where GPR will give you beneficial results. There are no prerequisites for this course. It will be presented so that anyone at any level of expertise can attend and benefit. If you have a laptop that you can bring, tutorials and/or instructional aides will be provided.

The topics to be covered in this course are:

The science of GPR; what GPR measures and what it doesn't
The language of GPR

The important parameters involved in collecting 'good data'
The 'other' ingredients important to a successful GPR job
The Art of GPR

Suggestions on how to effectively contract GPR work
Suggestions on how to effectively conduct GPR services
Case studies in a variety of application areas extremely conducive to GPR

Case studies in a variety of application areas subject to potential pitfalls

Resources for further study and assistance

SC-2: Saturday, April 5, and Sunday, April 6, 2008

Borehole Geophysical and Hydrophysical Logging for Environmental and Geotechnical Applications

Instructor: William Pedler, RAS,
Integrated Subsurface Evaluation

Time: 8:00 am to 5:00 pm

Introduction Course – Developed in conjunction with the U.S. Army Environmental Center, this nationally recognized short course provides an overview of traditional and state of the art borehole geophysical/hydrophysical methodologies. Included in this two day class are discussions on the benefits and applicability of borehole geophysics/hydrophysics to environmental, water supply and geotechnical problems. Participants will learn which borehole methods are most appropriate to characterize both fractured and porous settings given specific project objectives. How to effectively integrate and present a variety of borehole and hydrologic data will also be discussed. There will also be an introduction to integration of borehole information with surface/airborne geophysical data.

Past students from the US Army Environmental Center, US Army Corps of Engineers, US Geological Survey, US Environmental Protection Agency, numerous State Agencies and private concerns have consistently ranked this course as "excellent".

SC-4: Thursday, April 10, 2008

Geophysics applied to foundations analysis: integration of electrical and EM surface/ borehole methods with seismics

Instructor's: Gianfranco Morelli, GEOSTUDI ASTIER srl,
Livorno, Italy; Claudio Strobbia and Carlo Lai –
EUCENTRE, Pavia, Italy; Douglas LaBrecque,
MULTI-PHASE TECHNOLOGIES, Reno (NV)

Time: 8:00 am to 5:00 pm

The purpose of this course is to present modern geophysical techniques for the analysis of existing buildings and to aid the design and verification of new foundations, with an interactive and systematic approach. Subsurface investigation, characterization and monitoring tools provided by three-dimensional electrical (surface and cross-hole) and EM methods (mostly GPR) will be discussed in detail, exploring their integration with active and passive seismic (including surface wave methods), and with the data collectable in boreholes. The advantages of reducing the need of direct methods (drilling, excavation, cone-penetrometer) and optimizing their use through geophysics will be emphasized. The seminar will focus on the analysis of case histories and practical applications in Europe, Asia and North-America, including:

- studies on historical buildings
- investigations of geotechnical problems in existing residential houses, and verification of rehabilitation projects
- monitoring of "deep foundation" techniques, like Jet-Grouting
- optimized geotechnical characterization for foundation design
- detection of cavities and other geological hazards in urban areas

The course will include group involvement on novel specific software and on data processing, and discussion of the various techniques discussed, together with relevant course materials to be retained by the attendees.

SC-5: Thursday, April 10, 2008

Borehole Geophysical and Hydrophysical Logging for Environmental and Geotechnical Applications

Instructor: William Pedler, RAS,
Integrated Subsurface Evaluation

Time: 8:00 am to 5:00 pm

Advanced Course – The advanced course has been designed as a follow on to the introductory course and is a "roll up your sleeves" log analysis/interpretation of actual geophysical/hydrophysical data sets. The advanced class subject matter will focus on log analysis and interpretation of geophysics and hydrophysics for well completion, lithologic analyses, fracture evaluation, fast pathway determination and geology/hydrogeology between wells. Training exercises will include analysis of geophysical data from single hole case studies in conjunction with hydrophysical, in

conjunction with hydrophysical, imaging, and straddle packer testing data. Development and interpretation of cross sections will also be conducted with examples from a braided stream channel and fractured bedrock setting. Based on student interest, the emphasis could be on fractured or alluvial settings. Students are eligible to receive CEUs through the Colorado School of Mines and the Florida Board of Professional Engineers. The advanced/interpretation course is offered over a 1-day period. The introduction course, or equivalent experience, is a prerequisite for the interpretation course.

The instructor for both courses will be William Pedler, president of RAS, Integrated Subsurface Evaluation. Mr. Pedler is the principal developer of hydrophysical logging and has been integrating /interpreting borehole geophysical and hydrophysical data sets for over twenty years. More recently, Mr. Pedler has been integrating these borehole data sets with surface and airborne geophysical data. Come join Bill for these two informative classes and be quickly brought up to speed on borehole geophysical and hydrophysical methods, analysis and interpretation.

CONFERENCE & EVENT INFO

Help EEGS Control the cost of SAGEEP – book your room at the conference hotel!

This premier Philadelphia hotel is adjacent to the Pennsylvania Convention Center and within 8 blocks of Independence Hall and the Liberty Bell. When you reserve your room at the Philadelphia Marriott Downtown hotel before Friday, March 7, 2008 you are helping EEGS control the cost of SAGEEP, allowing us to keep the registration fees as low as possible. EEGS is not charged for conference facilities when we commit to a minimum number of room nights so please take advantage of the negotiated rate and help us keep SAGEEP affordable by booking at the conference hotel.

TAKE ADVANTAGE OF THIS GREAT HOTEL RATE! Single/Double: \$179; each additional person \$20.00. To make a reservation online, go to <https://resweb.passkey.com/go/6547fbec> (Answer "who are you?" by selecting attendee or government. No code is required.) For phone reservations, call 1-800-266-9432 and identify your group as "SAGEEP or "EEGS Annual Meeting" SAGEEP or EEGS. Reservations must be made by March 7, 2007 for special rates.

CONFERENCE HOTEL INFORMATION

Philadelphia Marriott-Downtown
1201 Market St
Philadelphia, PA 19107
(215) 625-2900 or toll free (800) 320-5744
Fax: (215) 625-6000

TRANSPORTATION/PARKING AT THE HOTEL

Airport: Philadelphia – PHL Phone: (215) 937-6937

Hotel is 8 miles NE of the airport. Driving Directions: Take I-95 North to 676 West. Take Broad St. Exit. Turn left onto Vine. Make a right onto 12th St. Hotel is at 12th and Market.

Parking: On-site parking, fee: \$41.40 USD daily; Valet parking, fee: \$41.40 USD daily; Off-site parking; contact hotel for details.

Airport shuttle service, on request, fee: 10 USD (one way)

Subway service, fee: \$5.50 USD (one way)

Estimated taxi fare: \$27.00 USD (one way)

Train Station: Use 30th Street Station (1 mile)

Evening Social Event

The nearby, spectacular Constitution Center is the site on Tuesday for our evening social event. Join fellow SAGEEP attendees for cocktails (cash bar), dinner and dancing and special access to the DeVos Hall, where our group will enjoy interactive exhibits, historic artifacts, and various multi-media elements. Includes dinner, entertainment and all entry fees.

SAGEEP 2008 Field Trips

Full Day Trip to Gettysburg Field

More clearly than most, this battlefield demonstrates the roles which underlying geology and surface topography can play in military actions. Early Mesozoic happenings influenced the flow of the battle and impacted the course of American history. Sturdy walking shoes or boots are recommended as you will cross parts of the battlefield on foot (be sure to bring rain gear – it's April!). Lunch and dinner will be on your own at eateries located near the battlefield. Tour on Thursday includes motor coach transportation, handout and all entry fees.

Half-Day Bicycle Tour of the Geology and Hydrology of Philadelphia

Unwind after traveling to Philadelphia and join colleagues on Sunday afternoon for a leisurely, geologically oriented bicycle-based field trip along the beautiful and scenic banks of the Schuylkill River and Wissickon Creek. You'll also visit a series of locations that illustrate the complex Paleozoic geology of this area as well as the hydrologic and cultural features that shaped over 300 years of development of what was at one time the center of scientific, culture, and industry in the U.S. Tour includes bicycle and helmet rental, lock and refreshments. (Got bike? You can also bring your own bicycle/helmet.)

Student Volunteers

Students who work two shifts at SAGEEP '08 are eligible to receive a rebate of their student registration fees. If you are interested, please contact us at tel. (303) 531-7517 or e-mail staff@eegs.org by February 29, 2008. Student Bursary Available: visit www.geometrics.com and access "What's New"/SAGEEP Scholarships for more information and to apply.

Student Event – Lucky Strike Lanes Bowling Outing

Students are invited to meet, greet and bowl at nearby Lucky Strike Lanes – walking distance from the Philadelphia Marriott Downtown hotel. Event includes lane fees and light refreshments on Sunday evening from 8-10 pm (shoe rental not included). Although there's no fee for students, please sign up on the registration form if you plan to attend.

Outdoor Demonstrations

On Monday afternoon, exhibitors will be conducting Outdoor Demonstrations in designated, grassy areas of the Independence Hall grounds (maps available at the SAGEEP registration booth). This event is within walking distance - be sure to end your outing with stops along Independence Mall at the Liberty Bell Center, the National Constitution Center and Independence Hall. Although there's no fee, please sign up on the registration form if you plan to attend.

2008 REGISTRATION FORM

Mail or Fax completed registration form and payment to:

EEGS/SAGEEP 2008
1720 S. Bellaire St., #110
Denver, CO 80222-4303 USA

(USA country code is +1)
Tel: 303-531-7517
Fax: 303-820-3844
Email: staff@eegs.org

Note: This is a preliminary program and subject to change. Please do not make travel arrangements based on this schedule.

Please print or type. Deadline for Early-Bird Registration Discount is March 14, 2008.

A. Delegate Information

Name: _____ Email: _____
Company/Affiliation: _____
Address: _____
City/State/Zip/Country: _____
Telephone: _____ Fax: _____

Registration must be received by the close of business on Friday, March 14, 2008 in order to receive the Early-Bird registration rates. Payment must be in US dollars and accompany the completed registration form to be processed. Please contact EEGS if you have any questions. Cancellation Policy: **No Refunds After March 14, 2008. Pre-registration deadline is March 14, 2008. After this date, on-site registration only.**

I am a member of: EEGS ASCE-GI SEGJ ASEG AEG Member rate is available to all EEGS, ASCE-GI, SEG-J, ASEG and AEG members.

Please complete a separate form for each registrant. Check boxes and circle appropriate rates to indicate your choices.

| B. Conference Registration | | |
|---|------------------|---------------|
| MONDAY ONLY April 7, 2008 | | |
| Monday Only conference includes: keynote address, technical luncheon, oral and poster presentations, exhibits, exhibitor demonstrations, conference program book and 25% off the purchase of one copy of SAGEEP 2008 Proceedings CD-ROM. | | |
| <input type="checkbox"/> Member Rate: | Early-Bird \$240 | On-Site \$340 |
| <input type="checkbox"/> Non-Member Rate: | \$340 | \$440 |
| FULL SAGEEP CONFERENCE | | |
| Full Conference includes: ice breaker, keynote address, oral and poster presentations, EEGU sessions, exhibits, conference program book and one copy of SAGEEP 2008 Proceedings CD-ROM. | | |
| <input type="checkbox"/> Member Rate: | Early-Bird \$450 | On-Site \$550 |
| <input type="checkbox"/> Non-Member Rate: | \$550 | \$650 |
| STUDENT RATE | | |
| (Must be able to demonstrate that you are currently enrolled in an accredited science or engineering undergraduate or graduate program or have graduated in the past 2 years.) Includes **Student Event. | | |
| <input type="checkbox"/> Member Rate: | Early-Bird \$100 | On-Site \$175 |
| <input type="checkbox"/> Non-Member Rate: | \$150 | \$225 |
| EXHIBITORS | | |
| Exhibiting companies receive two (2) complimentary exhibit personnel registrations for each paid booth space and one (1) full conference registration. Additional exhibit personnel registrations may be purchased at the \$50 exhibitor registration fee. Exhibitor registration fees include all printed program materials and admission to food and beverage events held in the exhibit hall. Please complete the registration form even if the registration is complimentary. | | |
| <input type="checkbox"/> Comp Full Conference Reg: (Limit 1 per 10x10 booth) (Limit 2 per 10x20 booth) | Early-Bird \$0 | On-Site \$0 |
| <input type="checkbox"/> Comp Exhibit Personnel: (Limit 2 per 10x10 booth) (Limit 4 per 10x20 booth) | \$0 | \$0 |
| <input type="checkbox"/> Additional Exhibit Personnel: | \$50 | \$50 |

| C. EEG University Registration | | | | |
|---|------------|---------------------------------------|-----------------|-------------|
| Environmental & Engineering Geophysical University (co-sponsored by the U.S. Department of Energy) "EEGU" consists of classroom-style sessions intended for non-geophysicists concurrent with the main technical sessions (Monday through Wednesday). Session topics include: What is Environmental and Engineering Geophysics and What Can It Do for You? (Monday), Geophysics for Water Resources and Contaminants (Tuesday), and Geophysics in Engineering, Transportation, Hazards, and UXO Investigations (Wednesday). Well-known and engaging instructors will present overviews of geophysical approaches to engineering and environmental problems to an intended audience of managers, regulators, environmental and engineering consultants, students, and educators. Registration is limited to non-presenting, first-time SAGEEP attendees and is first-come, first-served. Single- or multiple-day registrations are welcome. Includes Certificate of Completion and does not include admittance to SAGEEP technical sessions. | | | | |
| Daily Rates for Monday, Tuesday or Wednesday | | All EEGU Sessions, Monday - Wednesday | | |
| | Early-Bird | On-Site | Early-Bird | On-Site |
| *EEGU Daily Rate: | \$125 | \$150 | Full EEGU Rate: | \$300 \$350 |
| *Full EEGU Student Rate: | \$75 | \$100 | | |
| *EEGU Student Daily Rate: | \$40 | \$65 | | |

| | EEGS Members | | Non-Members | |
|--|--------------|---------|-------------|---------|
| | Early-Bird | On-Site | Early-Bird | On-Site |
| *SC-1: Surface Waves Are for Everyone (Sat) | \$375 | \$475 | \$475 | \$575 |
| *SC-2: Borehole Geophysical Applications and Geophysical Logging for Environmental and Geotechnical-Introductory Course-(Sat/Sun) | \$695 | \$795 | \$795 | \$895 |
| *SC-3: Demystifying the Art and Science of GPR (Sun) | \$375 | \$475 | \$475 | \$575 |
| *SC-4: Geophysics applied to foundations analysis: integration of electrical and EM surface/borehole methods with seismics (Thurs) | \$375 | \$475 | \$475 | \$575 |
| *SC-5: Borehole Geophysical and Hydrophysical Logging for Environmental and Geotechnical Applications-Advanced Course-(Thurs) | \$375 | \$475 | \$475 | \$575 |

| E. Field Trips | | |
|---|----------------------|-------------------|
| *Bicycle Tour of the Geology & Hydrology of Philadelphia (Includes: Bike & Helmet Rental, refreshments, \$20/\$25 Rate does not include rentals - Half-Day Sun) | Early-Bird \$45/\$20 | On-Site \$50/\$25 |
| *Gettysburg Field (Includes: trans., hand-out, entry fees - Full-Day Thurs) | \$65 | \$75 |
| F. Luncheons / Activities | | |
| <input type="checkbox"/> Technical Luncheon (Mon) Speaker: EEGS/Geonics Young Investigator Award Inaugural Recipient | Early-Bird \$40 | On-Site \$45 |
| <input type="checkbox"/> Business Luncheon (Tues) Speaker: William P. Owen, CA DOT | \$40 | \$40 |
| <input type="checkbox"/> *Evening Social Event / Constitution Center (Tues) | \$90 | \$95 |
| <input type="checkbox"/> Exhibitors' Outdoor Demonstrations/Independence Hall Grounds | \$0 | \$0 |
| G. SAGEEP 2008 Proceedings | | |
| <input type="checkbox"/> \$75 per copy (member): | Total Copies _____ | \$ _____ Total |
| <input type="checkbox"/> \$100 per copy (non-member): | Total Copies _____ | \$ _____ Total |
| Shipping & Handling: (# copies x price + Shipping & Handling = Total \$) | | |
| <input type="checkbox"/> USA \$7 <input type="checkbox"/> Canada/Mexico \$15 <input type="checkbox"/> Other Countries \$40 | | |

| H. Payment Information (US dollars only) | |
|---|------------------------|
| Check # _____ | (Made Payable to EEGS) |
| MC <input type="checkbox"/> Visa <input type="checkbox"/> Discover <input type="checkbox"/> Amex <input type="checkbox"/> | |
| Card Number: _____ | Exp. Date: _____ |
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| A. EEGS Membership: \$90.00 | \$ _____ |
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| B. SAGEEP Conference Registration | |
| <input type="checkbox"/> Monday Only SAGEEP | \$ _____ |
| <input type="checkbox"/> Full SAGEEP Conference | \$ _____ |
| <input type="checkbox"/> Student SAGEEP | \$ _____ |
| <input type="checkbox"/> **Lucky Strike Lanes Student Event | \$ _____ |
| <input type="checkbox"/> Exhibitor | \$ _____ |
| C. EEG University | |
| <input type="checkbox"/> Full EEGU-3 Days | \$ _____ |
| <input type="checkbox"/> Monday Only EEGU | \$ _____ |
| <input type="checkbox"/> Tuesday Only EEGU | \$ _____ |
| <input type="checkbox"/> Wednesday Only EEGU | \$ _____ |
| D. Short Courses | |
| <input type="checkbox"/> SC-1 Surface Waves Are for Everyone | \$ _____ |
| <input type="checkbox"/> SC-2 Borehole (Introductory-Sat/Sun) | \$ _____ |
| <input type="checkbox"/> SC-3 Demystifying GPR | \$ _____ |
| <input type="checkbox"/> SC-4 Geophysics Applied to Foundations | \$ _____ |
| <input type="checkbox"/> SC-5 Borehole (Advanced-Thurs) | \$ _____ |
| E. Field Trips | |
| <input type="checkbox"/> Geology of Philadelphia Bicycle Tour (Half-Day Sun) | \$ _____ |
| <input type="checkbox"/> Gettysburg Field Trip (All Day Thurs) | \$ _____ |
| F. Luncheons/Activities | |
| <input type="checkbox"/> Technical Luncheon - Mon | \$ _____ |
| <input type="checkbox"/> Business Luncheon - Tues | \$ _____ |
| <input type="checkbox"/> Gala/Constitution Center - Tues | \$ _____ |
| <input type="checkbox"/> Exhibitors' Outdoor Demos - Mon | \$ 0 |
| G. Additional SAGEEP Proceedings | \$ _____ |
| TOTAL: USD | \$ _____ |

**Students Only.
* EEGS reserves the right to cancel this event if minimum requirements are not met by March 14, 2008.



1720 S. Bellaire St., Suite 110
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Photo by B. Kristi for GPTMC

SAGEEP 2008

April 6-10, 2008

Philadelphia, Pennsylvania

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