January 2012 Dinner Meeting

SPEAKER: Dr. Robert Koerner and Dr. George Koerner

TOPIC: Geosynthetics Issues with Marcellus Shale Development

DATE: Tuesday, January 17, 2012

LOCATION: Radisson Valley Forge
1160 First Avenue, King of Prussia, PA

TIME: Dinner Meeting: 5:30 PM; Social Hour: 6:30 PM
Dinner: 7:15 PM; Presentation

GEOSYNTHETIC INSTITUTE (GSI)

Dr. Robert Koerner, Ph.D., P.E., Director Emeritus, GSI
Dr. George Koerner, Ph.D., P.E., Director GSI

The Marcellus Formation is a zone of marine sedimentary rock rock found in eastern North America. Named for a distinctive outcrop near the village of Marcellus, New York, it extends throughout much of the Appalachian Basin. The shale contains a massive supply of untapped natural gas reserves (estimates are as high as 1,307 trillion cubic foot), and its proximity to the high demand markets along the East Coast of the United States makes it an attractive target for energy development.

There are tremendous opportunities for the use of geosynthetic in both the exploration and containment phases of the gas recovery operation, including:

- Road, wall and pad building
- Geosynthetic Lined Surface Impoundments of water and hydraulic fracturing wastewater
- Sediment and erosion control
- Drainage control, and
- Solid waste containment

*One Professional Development Hour (PDH) will be provided for this dinner meeting.

Register for dinner meeting at www.DVGI.org
Geosynthetic Opportunities at Shale Gas Drilling Sites
by Bob and George Koerner

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There are tremendous opportunities for the use of geosynthetic in both the exploration and containment phases of the gas recovery operation. Some of them include, Road, wall and pad building, Geosynthetic Lined Surface Impoundments of water and hydraulic fracturing wastewater, Sediment and erosion control, Drainage control and Solid waste containment.

The presentation will shed some light on the best management practices involved with these activates. This two-part presentation will begin with Bob Koerner giving an overview of natural gas as an energy source and the huge potential for shale gas; particularly in the Marcellus and Utica Formations. Focus will be on the Marcellus and its immediate impacts on the energy market. Horizontal drilling and hydrofracking will be described as well as the associated environmental concerns. In this regard, the most important are felt to be sealing the vertical well and surface pollution from a number of sources. This second issue of surface pollution is nicely addressed by proper use of geosynthetics which will be presented by George Koerner.
Mr. Sutmoller provided an overview of Geofoam and covered everything from the raw materials and manufacturing to multiple applications for Geofoam. Several case studies were reviewed such as The Louis Armstrong Int’l Airport, New Orleans, Louisiana and the Woodrow Wilson Bridge in Alexandria, Virginia. In addition, he spoke of the latest advancements in Geofoam coming out of Norway where they are constructing entire bridge approaches with Geofoam.
2011-2012 DVGI Scholarships

Approximately $2000 in scholarship funds are expected to be distributed with a minimum award of $500 to the successful applicant(s). Award criteria are summarized below.

All applications should be sent to:

William Rinker, P.E.
Kleinfelder
180 Sheree Boulevard
Suite 3800
Exton, PA 19341
e-mail to: brinker@kleinfelder.com

Applications must be received by January 14, 2012 for consideration.

Eligibility:

The applicant must be a student member of ASCE.

The applicant must be enrolled in a four-year college program leading to a bachelor’s degree or a master’s degree in a program related to Civil/Geotechnical Engineering.

Preference is given to students who have not previously received a scholarship from DVGI.

Applicants must submit their most recent college transcripts, including grades for the most recent semester completed. Unofficial copies are acceptable.

Evaluation: Each applicant will be evaluated on a point system as follows:

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<th>Performance Factors</th>
<th>20 points maximum.</th>
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<td>Applicants will be rated on the cumulative grade point average at the time they apply for the scholarship.</td>
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<th>Evaluation of Applicant</th>
<th>80 points maximum.</th>
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<td>Evaluation of the applicant’s activities and honors, work experience, leadership positions and distinguishing qualifications (40 points maximum).</td>
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<tr>
<td>Evaluation of career goals, based on content, clarity of ambitions, grammar, spelling and neatness (40 points maximum).</td>
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E-mail Bill Rinker (brinker@kleinfelder.com) with any questions related to the application or to request an electronic version of the application.

Please encourage any local student meeting the above criteria to submit an application.
Earn PDHs at 2011-2012 DVGI Events

Upcoming Dates for 2011-2012 Dinner Meetings are as follows:
♦ February 22, 2011—Student Night at Villanova

One PDH will be awarded for most dinner meetings that you attend. Those interested in the PDHs can obtain supporting documentation at the sign-in desk prior to each event.

Looking for a Geotechnical Career Opportunity?

Have you considered a student internship or a co-op position? It’s a great way to “get your foot in the door” while gaining practical professional experience. Check the new geotechnical co-op and internship links on the G-I Student page at: http://content.geoinstitute.org/student.html.

G-I Chapters and Local Geotechnical Groups

As a 21st Century professional organization, the G-I aims to collaborate with local, national, and international geo-professional organizations. To meet that goal, the G-I has developed a strategic plan for outreach to local geotechnical groups to assist them in becoming a Geo-Institute Chapter. Check out this great link to other G-I Chapters and local Geotech Groups across the country: http://content.geoinstitute.org/groups/index.html.

The University of Delaware has initiated a Student Chapter. Please contact the Chapter President, Lauren Lobo at email address llobo@Udel.edu for more information. Congratulations to the GIUD!

G-I Twitter Brings You Quick News Updates

Twitter is a social networking tool for posting very brief updates, or “tweets.” The G-I launched its Twitter feed in April 2009 to announce updates to its website and other relevant news items. Since then, over 150 updates have been posted and more than 144 persons have become registered G-I followers. Visit our Twitter feed at http://twitter.com/GeoInstitute. You can check for updates or “follow” us using a Twitter account, an RSS reader, or one of the many other web applications that work with Twitter. Spread the word. Also check out the DVGI link at www.linkedin.com. Set up an account and keep up to date with business associates.
Upcoming Conference: Save the Date:

4th International Conference on Grouting and Deep Mixing

New Orleans, Louisiana, USA
Wednesday - Saturday
February 15-18, 2012

Conference sessions will be in both plenary format and in tracks. ICOG and a Technical Advisory Committee of representatives from 20 countries chose the following topics based on 250 abstracts from over 30 countries.

- Analysis and Design: Deep Mixing
- Analysis and Design: Grouting
- Analysis and Design: Jet Grouting
- Anchors and Piles
- Dam Foundation Grouting
- Dams: Grout Curtains and Cutoffs
- Deep Mixing: Methods and Applications
- Deep Mixing: Performance Testing
- Grouting and Deep Mixing for Environmental Containment and Treatment
- Grouting for Seepage Control
- Grouting Performance Testing
- Highways and Transportation: Deep Mixing
- Highways and Transportation: Grouting Innovations in Grouting Methods
- Jet Grouting: New Methods and Applications
- Karst: Grouting Applications and Technology
- Levees and Flood Walls: Deep Mixing
- Low Mobility Grouting
- Materials: Cement Based Grouts
- Materials: Chemical and Other Grouting
- Mining: Grouting Applications and Technology
- Permeation Grouting
- Structural Support: Grouting and Deep Mixing
- Tunneling: Grouting and Deep Mixing Applications

Registration for Exhibition, Sponsorship and Attendance is open at www.grout2012.org
Job Posting:

GEOTECHNICAL PROJECT MANAGER

Kleinfelder is an employee-owned science, design, and engineering consulting providing solutions to meet our world’s complex infrastructure and natural resource challenges. A firm with more than 2,000 employee-owners, Kleinfelder provides planning, engineering, scientific, technical, and management solutions. With nearly 50 years of experience, Kleinfelder’s reputation for providing innovative, commonsense solutions to the most complex challenges has solidified its status as a trusted partner to its global clients and a leader in the industry.

Working as a team, our bright people will deliver the right solutions

Kleinfelder’s Exton, PA office is seeking a Geotechnical Project Manager.

The ideal candidate must have at least 8 years of experience in geotechnical consulting, construction observation and project management. This position is a leadership role, requiring the ability to guide and develop staff, and will work closely with the Geotechnical Group manager. Responsibilities will include proposal preparation, technical oversight, delivery, profitability, resourcing, safety stewardship, and management of quality and risk. The candidate should possess a pro-active, problem solving attitude with excellent verbal and written communication skills, and the ability to multi-task effectively.

A Professional Engineer license is required, with the ability to obtain an NCEES record within 2 months. A BS in Civil Engineering is required and MS in Geotechnical Engineering is preferred.

Some travel to project sites and other Kleinfelder offices is required. The Exton office offers a wide range of challenging project work and a great opportunity to develop professionally.

Kleinfelder offers an excellent compensation and benefits package, including: medical, dental, vision, life insurance, 401(k) plan, paid holidays, and employee-ownership. Kleinfelder is an Equal Opportunity Employer.

PLEASE SUBMIT YOUR RESUME VIA www.kleinfelder.com UNDER CAREERS AND PEOPLE / CAREER OPPORTUNITIES Req. No 5105
Job Posting:

Geotechnical Project Engineer
NTH Consultants, Ltd., Lehigh Valley, PA

NTH Consultants, Ltd. is seeking a Sr. Project Engineer with progressive experience in geotechnical engineering design to support our Mid-Atlantic operations, from our Lehigh Valley (Bethlehem, PA) office. Candidates should be able to demonstrate experience with design of deep foundation, earth retention, and ground improvement systems; materials testing related to geotechnical investigations; and related construction observation. Experience with the design of shafts and tunnels will be considered a plus, along with geotechnical instrumentation and monitoring programs.

A minimum of 7 years of experience with a BSCE and P.E. are required, MSCE is preferred. Responsibilities will include client development, proposal writing, project coordination, and staff supervision (technical guidance and mentoring of engineering staff). Candidates should possess strong interpersonal skills for contact with team members and clients, be a proficient technical writer, and be competent with engineering software applications for geotechnical design.

Candidate must be capable of performing and/or providing technical oversight for geotechnical design of above-ground and/or underground structures, as well as temporary/permanent earth retention systems, deep foundations, MSE walls, earthen structures, etc.; preparing and reviewing plans and specifications for geotechnical design/construction projects; developing geotechnical recommendations and design criteria for reports; and planning/performing geotechnical investigations.

Visit us at www.nthconsultants.com for a full description and to apply on-line under the Employment Opportunities tab at NTH.
UPDATE: New DVGI Website

Over the last several months we have added some additional content to the DVGI web site located at www.dvgi.org. The web site now includes links to our corporate sponsors web pages, past newsletters, the 2011-2012 DVGI events calendar, industry related links and events, and most notably a form for online reservations to our monthly meetings. We hope you will utilize the online reservation wherever possible to streamline the reservation process.

Please e-mail any of the DVGI Board members if you would like additional information added to the web site. Thanks to Genevieve Meehan for managing the site development.

HAVE DVGI PUBLISH YOUR ARTICLE

Do you have an interesting article on a project or individual in your organization that you would like to have published in the DVGI newsletter? Please submit your articles for consideration in an upcoming edition to Archie Filshill at archie@intergeoservices.com

DVGI Merchandise Available for Purchase
1 GB memory sticks ($12); coffee mugs ($8); and lapel pins with the DVGI logo ($5) are available for purchase. See Ara Mouradian if you are interested in purchasing any of these items.

www.DVGI.org

Thanks to Genevieve Meehan for managing the site development!

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