



North American Geotechnical Engineers Association

2 Ada, Suite 250, Irvine, California 92618; Tel: 949-727-4466; Fax: 949-727-9242;
Website: www.nac-gea.org EIN: 27-0835587 (IRS 501c3 Organization)

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6th GEOTECHNICAL WORKSHOP

Friday September 24, 2010 12:00pm-5:00pm

A-Level Los Angeles Room, Los Angeles Department of Water and Power
111 North Hope Street, Los Angeles, CA 90051, Ph: 213-367-0942

AGENDA:

12:00pm-1:00pm Lunch and Networking
1:00pm-1:25pm Opening Remark and Sponsors' Speeches

1) Keynote Presentation (1:25pm-2:10pm) – **Geotechnical Design Challenges at the LA County Sanitation Districts' Proposed Biosolids Composting Facility in Kings County, CA**
Invited Speaker: **Dr. Suji Somasundaram, PE, GE**, Principal Engineer, Advanced Earth Sciences, Inc., Irvine, CA and **Mr. Sri Nannapaneni, PE**, Project Engineer, LA County Sanitation Districts

2) Keynote Presentation (2:15pm-3:00pm) – **Complex Design and Construction of Tunnel and SOE to Accommodate Challenging Site Conditions**
Invited Speaker: **Mr. John I. Yao, PE**, Senior Project Engineer, Jacobs Associates, Inc., Pasadena, CA

3:00pm – 3:20pm Coffee Break

3) Keynote Presentation (3:20pm-4:05pm)– **The Impact of Heavy Construction Vibrations on the Dwellings of the Tortoise, the K-Rat and the People: Three Case Histories**
Invited Speaker: **Mr. John A. Barneich, PE, GE**, Principal, GeoPentech, Inc., Santa Ana, CA

4) Keynote Presentation (4:10pm-4:55pm) – **Geotechnical Considerations, Opportunities, and Strategies for Infiltration Stormwater BMPs**
Invited Speakers: **Mr. Ronald S. Johnson, PE, GE**, Associate and **Mr. Ken J. Susilo, PE, D.WRE, CPSWQ**, Geosyntec Consultants, Inc., Huntington Beach, CA

4:55pm-5:00pm Closing Remarks

COST: Members:
\$45 - Consulting Firms, \$25 - Government Employees and Students. Walk-in without RSVP: \$55.
Non-members:
\$65 - Consulting Firms, \$45 - Government Employees and Students.

You are a member if you had RSVP to any of our previous workshops. New members will fill an application form and pay \$25 annual membership fee.

RSVP: Dr. Jianping Hu, PE, GE (Jianping.hu@ladwp.com or 213-367-0942)



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Prestigious Speakers for the 6th NACGEA Geotechnical Workshop



Dr. Suji Somasundaram , PE, GE
Advanced Earth Sciences, Inc.
Mr. Sri Nannapaneni, PE
LA County Sanitation Districts

Dr. Suji Somasundaram, Principal Engineer with Advanced Earth Sciences, Inc. has 28 years experience in geotechnical and landfill engineering services, including design and analysis of earth structures, stability evaluations of embankments, landslides and slopes, design and construction of landfill liners and covers, preparation of final closure plans, design of alternative covers, COA for major landfill expansions and final closures, and numerical analysis of complex unsaturated flow and soil-structure interaction problems.

Mr. Sri Nannapaneni is a Project Engineer with the LA County Sanitation Districts. He has over 18 years of experience in civil and geotechnical engineering projects involving the design and construction of waste containment facilities, infrastructure development and sewer line protection. Mr. Nannapaneni is a key member of the design team that is currently developing the Westlake Farms Biosolids Facility near Kettleman City, California.

Mr. Yao received his M.Sci. degree from the University of Illinois at Urbana-Champaign, and his B.Sci. degree from UCLA. He has diverse professional experience in geotechnical engineering for tunnel and shaft structures, water and waste water treatment facilities, industrial facilities, and transportation infrastructure. His experience includes soft ground and hard rock tunnels, microtunnels, tunnel rehabilitation, earth retaining structures, as well as drilled shaft foundations for buildings, large-diameter storage tanks, and bridge structures.



Mr. John I. Yao, PE Jacobs
Associates, Inc.



Mr. John A. Barneich, PE, GE
GeoPentech, Inc.

Mr. Barneich has over 46 years of experience in geotechnical and earthquake engineering. Mr. Barneich received his Bachelors and Masters Degrees in Structural and Geotechnical Engineering from the University of California at Berkeley. His work in earthquake engineering ranges from evaluation of ground motions to seismic hazard evaluation of buildings and earth dams. One of the more notable projects include the large scale field foundation response tests to set the initial soil structure interaction procedures for the San Onofre Nuclear Generation Station (SONGS) and numerous seismic and vibration related assignments at SONGS over the past four decades. He has also been involved with over 70 DSOD jurisdictional dams in California. Because of his close relationship with heavy construction projects, he has provided vibration related consultation on many of these projects to contractors and owners alike.

Mr. Ron Johnson has more than 22 years of experience. He is an industry leader in developing innovative approaches to design and evaluate storm water infiltration facilities and beneficial reuse of closed or inactive landfills.

Mr. Ken Susilo's work focuses on the planning, design, and construction of environmentally-sensitive projects that improve water resources. He has served on 4 ASCE Report Card subcommittees for Urban Runoff and chaired CASQA's Hydromodification Work Group; and has served as a Director for the Urban Water Institute, AWRA, and the Berkeley Engineering Alumni Society. Ken was recognized in 2006 as the ASCE Outstanding Civil Engineer in the Private Sector in the State of California.



Mr. Ronald S. Johnson, PE, GE
Mr. Ken J. Susilo, PE, D.WRE, CPSWQ
Geosyntec Consultants, Inc.



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6th NACGEA Geotechnical Workshop Presentation Abstracts

Dr. Suji Somasundaram & Mr. Sri Nannapaneni: The site is located on a dry lake bed and is underlain by hundreds of feet compressible clays; The geotechnical challenges included low bearing capacity and high settlement potential; very high expansion potential ($EI > 140$); extremely high soluble sulfates ($> 20,000$ mg/kg); and shallow groundwater. The presentation will cover the various design measures that were adopted to overcome these constraints.

Mr. John I. Yao: The Narragansett Bay Commission Combined Sewer Overflow (CSO) Project includes the deep-storage Main Spine CSO Tunnel, a pump station, shafts, and near-surface facilities. This presentation will discuss a case history of the complex design and construction of a tunnel for the installation of a Consolidation Conduit, as well as the support of excavation (SOE) for a 12.2-m (40-ft) deep Diversion Structure that also served as a tunnel receiving shaft during construction. This shaft consists of an innovative combination of secant piles, soilcrete walls, and bracings, and also supported a 259-cm (102-in.) pipe that maintained the existing sewer flow during construction.

Mr. John A. Barneich: Two of the case histories relate to Blasting and Heavy Construction Traffic associated with Water projects and the third relates to sheet pile driving adjacent to a residence. The issues raised by the construction vibrations on the Tortoise and K-Rat were potentially severe and costly mitigation constraints to be imposed by environmental review agencies on the projects, whereas the sheet pile vibrations deals with alleged damage.

Mr. Ronald S. Johnson & Mr. Ken J. Susilo: Geotechnical engineers are integral in both the design and site selection process, but often are not involved until design development, which is often too late once a site has been planned for an infiltration facility. The purpose of this presentation will be to discuss the geotechnical considerations when evaluating sites or preparing design recommendations for infiltration best management practice (BMPs) and the unique role of the geotechnical engineer in this process.



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6th NACGEA Geotechnical Workshop Advertisement / Sponsorship

Company Presentation at Luncheon (Limited to 3 Companies)

- Gold:** \$500 for 5 minutes presentation.
Silver: \$300 for 3 minutes presentation
Bronze: \$100 for 1 minutes speech

Company Marketing Souvenir to Speakers Each Souvenir Limit to \$25 Value

Please contact NACGEA Secretary-General:

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