

20th LA GEO EXPO
Wednesday April 12, 2017
1:30 - 6:00 p.m.

Businesses in the geo-industry have been invited to exhibit their products and services concurrent with the Spring Seminar of the Los Angeles Geo-Institute Chapter.

If your company would like to exhibit, or if you know of a company that would like to, please contact the Vice-Chair:

Dr. Lisa Star, Vice-Chair

Professor
California State University, Long Beach
Department of Civil Engineering, VEC-306
1250 Bellflower Blvd., Long Beach, 90840

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SEMINAR SCHEDULE
Wednesday April 12, 2017

- 1:30 – 2:00 Registration (Geo Expo)
2:00 – 3:00 Presentation by
Prof. Steve Kramer
3:00 – 3:30 Coffee Break (Geo Expo)
3:30 – 4:30 Presentation by
Dr. Lelio Mejia
4:30 – 6:00 Social Hour (Geo Expo)
6:00 – 8:30 Banquet and
Ken Lee Lecture by
Prof. Gholamreza Mesri



Professor Steve Kramer
Univ. of Washington, Seattle



Dr. Lelio Mejia
GeoSyntec Consultants, Inc.



Professor Gholamreza Mesri
Univ. of Illinois, Urbana-Champaign

American Society of Civil Engineers
&
ASCE Geo-Institute Los Angeles Section



**GEO-
INSTITUTE**

Los Angeles Chapter

Present:

FORTIETH SPRING SEMINAR

TWENTIETH LA GEO EXPO

**THIRTEEN KENNETH L. LEE
LECTURE AWARD**

Wednesday April 12, 2017

Queen Mary
1126 Queen's Highway
Long Beach, CA 90802
Phone: (562) 435-3511

FORTIETH SPRING SEMINAR

Lecture 1: “The role of time in liquefaction hazard evaluation”

Prof. Steve Kramer

Since 1984, Dr. Kramer is a geotechnical faculty at the Univ. of Washington and has contributed substantially to engineering advancements in soil liquefaction, site response analysis, seismic slope stability, and hazard analysis. Much of his current research work is in the area of performance-based earthquake engineering, specifically the integration of probabilistic response analyses with probabilistic seismic hazard analyses. His presentation will review liquefiable soil behavior and the implications of very long duration ground motions on that behavior, and describe a framework that allows the timing of liquefaction to be taken into consideration in the evaluation of liquefaction hazards. The framework allows separation of loading into pre- and post-triggering components, and allows different ground motion intensity measures to be used to characterize triggering and consequences.

Lecture 2: “Engineering Challenges of the Dams of the Panama Canal Expansion”

Dr. Lelio Mejia

Dr. Mejia is a Senior Principal with Geosyntec Consultants, Inc. in Oakland, California. With more than 35 years of experience in geotechnical, earthquake, and dam engineering, his expertise include seismic design and performance of dam structures, soil dynamics, soil liquefaction assessment and mitigation, foundation engineering, and SSI analyses. Dr. Mejia currently serves as Chair of the United States Society on Dams (USSD) Earthquakes Committee. In his presentation, Dr. Mejia will describe the geotechnical challenges associated with the dam design, such as the site geologic and seismic setting, the foundation conditions, and the design stability criteria. He will discuss the design concept and illustrate the key features of Dam 1E, the largest of the Borinquen Dams.

Full speaker abstracts/bios @ www.lageoinstitute.com

THIRTEENTH KENNETH L. LEE LECTURE

Professor Gholamreza Mesri University of Illinois, Urbana Champaign

The Geotechnical Group of the Los Angeles Section of ASCE established the Kenneth L. Lee Lecture Award to honor the contributions of Professor Lee to his profession and to recognize outstanding achievements in earthquake engineering, earth structures design, and geotechnical engineering.

The 2017 recipient of the Kenneth L. Lee Lecture Award is **Reza Mesri, Professor of Civil and Environmental Engineering at the University of Illinois, Urbana Champaign**. Professor Mesri will deliver during the evening Banquet the **Thirteenth Kenneth Lee Lecture entitled “Settlement of the Kansai International Airport Islands.”**

Abbreviated Abstract

The Kansai International Airport was constructed in Osaka Bay in 18- to 20-m-deep seawater to avoid noise pollution and land acquisition disputes. Using more than 2.2 million vertical sand drains fully penetrating into the 17.3- to 24.1-m-thick Holocene clay layer and 430 million cubic meters of fill material, the project is viewed as an engineering marvel. On the basis of a detailed review of the geology, construction of the Airport Islands, and permeability and compressibility of the Holocene and Pleistocene sub-seabed deposits settlement analyses were conducted assuming the uniqueness of end-of-primary void ratio–effective vertical stress relationship and the C_a/C_c law of compressibility. Airport Island I has already settled below the 4-m above sea level surface elevation required by the design specification, and the surface elevation of Island II is predicted to be 4 m above sea level by 2023 to 2036. Discussion and future predictions are presented for all Airport Islands.

REGISTRATION

Please complete your registration on our website (www.lageoinstitute.com) with PayPal/credit card payment option or use the form below. Use one form per registrant and duplicate the form for additional registrants. Determine payment from the Registration Fee Schedule shown below. Send completed form(s) and payment in the form of a check payable to **ASCE LA Geo-Institute Chapter** to the Treasurer:

Dr. Sharid Amiri
Geotechnical Services, D12-Oversight, Caltrans
1750 E. 4th Street, Suite 100
Santa Ana, Ca. 92705
Sharid.amiri@dot.ca.gov

Registration Form

Name (Mr./Ms./Dr.) _____
Organization _____
Address _____
City _____
State _____ Zip _____
Phone _____
Fax _____
E-mail _____
Check # _____

Registration Fee¹

Early registration (*registration and payment received on or before 4/5/15*).....\$150
Regular registration (*registration and payment received after 4/5/15 or on-site*).....\$190
Early Public Employee registration (*registration and payment received on or before 4/5/15*).....\$100
Full-time student registration³.....\$50

¹No refunds for cancellations requested after 4/7/16.

²Due to limited seating, on-site registrations will be accepted only until event is full.

³Proof of full-time student status required on-site.