



**GEO-  
INSTITUTE**

**Los Angeles Chapter**

American Society of Civil Engineers  
Los Angeles Geo-Institute Chapter

Presents:

FORTY-THIRD SPRING SEMINAR

TWENTY-THIRD LA GEO EXPO

SIXTEENTH KENNETH L. LEE  
LECTURE AWARD

**Wednesday October 7th, 2020**

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

## SEMINAR SCHEDULE

Wednesday, October 7, 2020

- 1:00 – 2:00 PM Registration (Geo Expo)  
2:00 – 3:00 PM Presentation by  
Dr. Mark Panning  
3:00 – 3:30 PM Coffee Break (Geo Expo)  
3:30 – 4:30 PM Presentation by  
Dr. John Harvey  
4:30 – 6:00 PM Social hour (Geo Expo)  
6:00 – 8:30 PM Banquet  
Kenneth L. Lee Lecture  
Prof. Harry G. Poulos



**Dr. Mark Panning**  
Jet Propulsion Laboratory



**Professor John Harvey**  
University of California, Davis (UC Davis)



**Professor Harry G. Poulos**  
Coffey Services Australia

**23<sup>rd</sup> LA GEO EXPO**  
**Wednesday, October 7, 2020**  
**1:00 - 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.  
Limited space is available:

David E. Albus  
Albus-Keefe & Associates, Inc.

1011 N. Armando Street  
Anaheim, CA 92806

Email: [DAIbus@albus-keefe.net](mailto:DAIbus@albus-keefe.net)

ASCE Los Angeles  
Geo-Institute Chapter  
Presents

FORTY-THIRD SPRING SEMINAR &  
SIXTEENTH KENNETH L. LEE LECTURE

The ASCE Los Angeles Geo-Institute Chapter 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 2020 recipient of the **Kenneth L. Lee Lecture Award** is **Professor Harry G. Poulos**. Prof. Poulos will deliver the **SIXTEENTH Kenneth Lee Lecture** during the evening Banquet titled "**Issues, Procedures and Some Shortcomings in Deep Foundation Design**"

There are two afternoon presentations, the first of which will be given by **Dr. Mark Panning**, Research Scientist, InSight Mission to Mars, Jet Propulsion Laboratory, on "**InSight: The First Geophysical Observatory on Mars**" and the second afternoon presentation will be given by **Professor John Harvey**, of University of California, Davis, (UC Davis) on "**Mechanistic-Empirical Pavement Design Using CalME and PavementME**"

SIXTEENTH KENNETH L. LEE  
LECTURE  
Wednesday October 7th, 2020

**Issues, Procedures and Some  
Shortcomings in Deep Foundation  
Design**

**Professor Harry G. Poulos**  
Coffey Services Australia

**Abstract**

This paper reviews the key issues that must be addressed in the design of deep foundations, especially for support of high-rise buildings. Common design criteria are then set out, and a three-stage design process is outlined. The importance of geotechnical site characterization is emphasized. Some of the available design tools are discussed, together with their limitations, and a comparison is made of analysis results from four different programs. Finally, some perceived shortcomings of common design procedures are discussed, including: ignoring foundation interactions, assuming a rigid raft, assuming uniform soil properties and conditions with depth, ignoring external ground movements, ignoring kinematic seismic effects, and assuming that piles behave as elastic members. Examples of the consequences of these inadequate procedures will be illustrated via relevant case histories.

**REGISTRATION**

Please complete your registration on our website ([www.lageoinstitute.com](http://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 Geotechnical Group** to the Treasurer:

Dr. Macan Doroudian  
Treasurer  
ESi  
15235 Alton Parkway, Suite 120  
Irvine, CA 92618  
[mdoroudian@engsys.com](mailto:mdoroudian@engsys.com)

**Registration Form**

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

**Registration Fee<sup>1</sup>**

Early registration (*registration and payment received on or before 4/3/20<sup>1</sup>*).....(\$160 standard)  
.....(\$80 public employees<sup>4</sup>)  
.....(\$25 students<sup>3</sup>)  
Regular registration (*registration and payment received after 4/3/20<sup>1</sup> & Before 4/14/20*).....(\$200 standard)  
.....(\$100 public employees<sup>4</sup>)  
.....(\$50 students<sup>3</sup>)  
On-site registration (*4/15/20<sup>2</sup>*)....(\$230 standard only)

<sup>1</sup>No refunds for cancellations requested after 4/10/2020.  
<sup>2</sup>Due to limited seating, on-site registrations will be accepted only until event is full.  
<sup>3</sup>Proof of full-time student status required on-site.  
<sup>4</sup>Proof of employment required on-site.

**SPECIAL EVENT NOTES**

- 1) There will be a **professional photographer** at the event this year. So be picture ready (both for group and professional headshots).
- 2) We are going to have a raffle for a special gift using your **business cards**. Don't forget to bring one.