

TRB New Approaches to Liquefaction Analysis Workshop Review

As part of the technical sessions at this year's Transportation Research Board (TRB) Annual Meeting held this past January, a Sunday workshop was held to present and discuss the most current approaches and issues in liquefaction hazard analysis. The workshop was planned and sponsored by the TRB Committee on Foundations and Other Structures (A2K03), and the TRB Task Force on Seismic Bridge Design (A2C52). Additional sponsorship and funding was provided by the FHWA Offices of Research and Technology Applications as well as MCEER.

The objectives of the workshop were to introduce the geotechnical and bridge design communities to FHWA Geotechnical Engineering Circular (GEC) No. 3, *Design Guidance: Geotechnical Earthquake Engineering for Highways, Volume 1 – Design Principles* (Report No. FHWA-SA-97-076) and *Volume 2 – Design Examples* (Report No. FWA-SA-97-077); and *Module 9, Geotechnical Earthquake Engineering*, of the National Highway Institute (NHI) Training Course in Geotechnical and Foundation Engineering. These documents were supplemented with information from the 1997 *NCEER Recommendations for Ground Motion Characterization for Seismic Design of Highway Facilities* (NCEER-97-0010), the 1997 *NCEER Workshop on Evaluation of Liquefaction Resistance of Soils* (NCEER-97-0022), and more recent developments in the field. In addition to formal presentations, the workshop included two problem sessions to illustrate application of the methodology for liquefaction potential contained in the GEC manual and NHI training course.

The workshop, and an expert panel session held on the following Monday, were well attended with over a hundred engineers on hand for the workshop, and approximately eighty engineers attending the expert panel sessions on Monday morning. Presenters at the workshop and panel session included Edward Kavazanjian, (Workshop Chairman), Ian M. Friedland, I.M. Idriss, James K. Mitchell, Geoffrey R. Martin, Kenneth H. Stokoe, T. Leslie Youd, Raymond B. Seed, Ricardo Dobry, Jeffrey A. Farrar, and W.D. Liam Finn.

A limited number of free CDROM disks containing selected FHWA documents and other reference materials distributed at the workshop are available by writing to Chris Dumas at FHWA ERC, 10 South Howard Street, Suite 4000, Baltimore, MD 21201 or via email: Chris.Dumas@fhwa.dot.gov. ❖



■ Ken Stokoe, Jim Mitchell, Liam Finn, I.M. Idriss, T. Les Youd, Geoff Martin, Ray Seed and Ed Kavazanjian welcomed over 80 participants to a workshop on new approaches to liquefaction analysis.