UC & ground under Center for Underground Construction & Tunneling

Present a JOINT TUNNELING SEMINAR on **WEDNESDAY SEPT 12TH** at **NOON** in **BB 125** entitled:

LARGE TUNNEL DESIGN, ALASKAN WAY TUNNEL CASE HISTORY

Seattle's Alaskan Way Tunnel has a finished outside diameter of 56 feet (17.1 meters) and will be the largest soft-ground TBM-excavated tunnel in the world. This project is one year into construction with tunneling to start next year. This case history includes description of geologic conditions, methods used for the comprehensive site investigation and establishment of a Geotechnical Baseline, prediction of tunneling settlement building damage, basis of tunnel lining design, instrumentation and monitoring, and key contract terms and conditions.

PRESENTATION BY:

Bill Hansmire

Senior Vice President

Parsons Brinkerhoff

Geotechnical & Tunneling

Technical Excellence Center

Mr. Hansmire is considered an expert in tunnel engineering and project management in roadway, heavy rail, transit, water, and wastewater tunnel projects.

Career highlights include:

- Tunneling engineering research on the Washington, DC Metro;
- Design for first use in the US of slurry walls as permanent structures for Harvard Square Transit Station, Cambridge, MA;
- Tunnel design for Contract F-4 Washington, DC Metro tunnel using precast concrete tunnel lining and a pressurized-face TBM as first use in a transit in the US;
- Design and construction of the Interstate H-3 Highway tunnel through the Koolau Mountains in HI
- Yucca Mountain Project (YMP) for Construction of the Exploratory Studies Facility (ESF) tunnel in NV.
- Led the development of design-build contract requirements for tunneling and building protection for the Alaskan Way Tunnel, which at a finished OD of 56 feet (17.1 meters), will be the largest soft-ground TBM-excavated tunnel in the world.
- Design Manager for the LA Metro Regional Connector Transit Corridor Project, a 2-mile tunnelwith 3 underground transit stations connecting two existing light rail lines in the heart of downtown Los Angeles.
- He holds BS, MS, and PhD degrees in Civil Engineering and is a registered professional engineer in several states. He is a member of ITA Working Group 2, the Executive Committee of RETC (Past), ASCE (Fellow), and the National Academy of Engineering (NAE)