

**CONFERENCE TO COMMEMORATE THE LEGACY OF RALPH B. PECK,  
SEVENTH INTERNATIONAL CONFERENCE ON CASE HISTORIES IN  
GEOTECHNICAL ENGINEERING AND  
SYMPOSIUM IN HONOR OF CLYDE BAKER  
WHEELING, IL (CHICAGO, IL AREA) – APRIL 29-MAY 4, 2013**  
<http://7icchge.mst.edu>

**THEMES  
January 18, 2012**

**This conference will be conducted in three parts.**

**PART 1**

**Session on Legacy of Ralph B. Peck**

**Session 1a. Application of Case Histories to Practice**

Use of Case Histories to Enhance Practical Geotechnical Engineering; Practice in Different Offices to Achieve this Objective with Examples; Importance of Life Long Learning; Use of Case Histories in Life Long Learning; One-Page Case Histories

**Session 1b. Application of Case Histories in Education**

How Case Histories have been Incorporated in Coursework; How to Conduct Search for Case Histories, and What are the Major Sources; Examples of Specific Use/s; Importance of Teaching Case Histories; From Case Histories to Conceptual Models; Importance of Practical Experience of Professors; Use of Case Histories in Teaching Process; Is it Possible to Involve Students in Case Histories (i.e. in Engineering Practice)?

**Session 1c. Observational Method, Successes and Failures**

Case Histories of the Successful Application of the Observational Method and Observational Control; Critically Reviewed Old Case Histories (post mortem) and Successful Case Histories; Architecture of Reporting Case Histories and The Question of Ethics in Reporting of Case Histories; History of Geotechnical Engineering; Ancient Geotechnical Engineering

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**PART 2**

**Symposium in Honor of Clyde Baker**

2. Case Histories of Unexpected Behavior and Failure of Shallow, Deep and Other Foundations, Including Soil Structure Interaction, Foundations in Expansive, Collapsible and Sulphative Rich Soils, Foundations in Arid, Semi-Arid Zones; Case Histories Involving Rapid Load Testing (Statnamic, Fundex, Drop Weight) for Deep Foundations, Pile Driving and Evaluation, Failure and Good Performance of Buildings, Foundations, Tall Buildings and Towers, and Historical Monuments

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**PART 3**

**Other Sessions**

3a. Case Histories on Failures and Remediation of Slopes, Dams, Embankments and Landfills, Including Those on Landslides and Other Mass Movements (Debris Flows, Mudslides in California, Venezuela and Elsewhere) due to Rain, Flooding, Earthquakes, Anthropological and Other Causative Factors and Failure; Static Liquefaction of Tailing Dams; Good Performance of Levees, Solid Waste Landfills and Dams

3b. Case Histories on Failure and Remediation of Retaining Structures, Slurry Walls, and Deep Excavations, Dewatering, Stability

3c. Improving the Stability and Maintenance of Monuments (Big Ben, Leaning Tower of Pisa and Others)

4a. Case Histories on Failure and Remediation of Geotechnical Earthquake Engineering, Including Land Slides; Lessons Learned from Pisco-Peru 2007, L'Aquila-Italy 2009, Honduras 2009, American Samoa 2009, Haiti 2010, Chile 2010, Baja California 2010, New Zealand 2010 and 2011, Tohoku Japan 2011 and other Recent Earthquakes; Reports on Recent Earthquakes

4b. Case Histories on Engineering Vibrations, Vibration Control for Underground and Surface Constructions with Specific Emphasis on the Urban Environment; Predictions, Monitoring and Solutions; Blasting for Tunnels in Soft Ground and Rock, Discontinuous Rocks and their Application to Water Resources Projects, and Remediation

5. Case Histories on Failure of Geological, Rock and Mining Engineering, Including Underground Structures and Excavations, and Subsidence of Deltas; Anticipation, Characterization, Design and Construction in the Geological Complexity of Mélanges, Fault Rocks, Weathered Rocks, Boulder Colluvium, Lahars and Similar Bimrocks (Block-in-Matrix Rocks) and Rock/Soil Mixtures, and Remediation

6a. Case Histories on Soil Property Improvement; Expansive and Collapsible Soils for Earthquake Mitigation; Use of Lightweight Materials; Application of Geo-Synthetics; Effects and Risks of Foundations in Freshly Loaded Filled Ancient Marshy Lands; Vanished Ports such as Alexandria, Puri-Mahabalipuram and Other Unknown; Site Characterization

6b. Case Histories on Geo-environmental Problems, including Soil and Groundwater Contamination, Geotechnical and Hydrological Management and Remediation of Solid, Hazardous and Low-Level Radioactive Wastes, Bioreactor Landfills, Landfill Liner and Cover Systems, Landfill Closure and Brownfield Redevelopment

7a. Case Histories on Application of Geotechnics to Railway Engineering and to Rail Track Modernization; Highway and Road Embankments/Transportation Systems

7b. Monitoring of Critical Geotechnical Constructions and Open Scale Excavation (Mining), Advanced Monitoring Techniques, Effective Monitoring Solutions, Warning systems, Large Scale Mapping of Response (LIDAR, InSAR, etc.) for Construction Control, etc.

8a. Case Histories on Forensic Geotechnical Engineering, Where Things Went Wrong; Reliability of Codes; Risk Analysis Pertaining to Public Structures, Non-Destructive Evaluation and Load Testing of Drilled Shafts, Auger Cast Piles and Driven Piles, and Damage Evaluation; Advance Information, Systems in the Geotechnical Risk Predication and Assessment

8b. Case Histories on Health Monitoring and Retrofit of Infrastructure, including Bridges, Tunnels, and other Transportation and Geotechnical Structures, and their Effects on Existing Facilities and Buildings, and Remediation