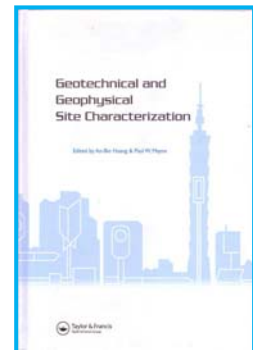
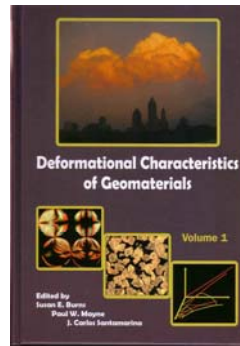


## 2008-2009 Annual Summary of Accomplishments - Paul W. Mayne, Professor, CEE

### • BOOKS

- Burns, S.E., Mayne, P.W., and Santamarina, J.C. (2008). *Deformational Characteristics of Geomaterials*, Vols. 1 and 2, Millpress/IOS Press, Amsterdam: 953 pages.
- Huang, A-B. and Mayne, P.W. (2008). *Geotechnical & Geophysical Site Characteristics*, Vols. 1 and 2, Taylor & Francis, London: 1516 pages.
- Mayne, P.W., Christopher, B.S., and DeJong, J. (2008). Chapter 9: "Ground Properties" in *Geology for Civil Engineers*, Thomas Telford Publishing, London, 222-251.



### • JOURNAL PAPERS

- Schneider, J.A., Randolph, M.F., Mayne, P.W., and Ramsey, N.R. (2008). Analysis of factors influencing soil classification using normalized piezocone tip resistance and pore pressure parameters. *Journal of Geotechnical & Geoenvironmental Engineering* 134 (11): 1569-1586.
- Juang, C.H., Chen, C-H., and Mayne, P.W. (2008). CPTu-simplified stress-based model for evaluating soil liquefaction potential. *Soils & Foundations* 46 (6), Japanese Geotech Society: 755-770.

### • PROCEEDINGS PAPERS

- Mayne, P.W., Coop, M.R., Springman, S., Huang, A-B., and Zornberg, J. (2009). State-of-the-Art Paper (SOA-1): GeoMaterial Behavior and Testing. *Proc. 17th Intl. Conf. Soil Mechanics & Geotech. Engrg.*, Alexandria, Egypt, Millpress/IOS Press Rotterdam, in press.
- Mayne, P.W. and Woeller, D.J. (2009). Axial shaft response using elastic continuum and seismic piezocone results. *Contemporary Topics in In-Situ Testing, Analysis, and Reliability of Foundations*, GSP 186, ASCE, Reston/VA: 95-102.
- Mayne, P.W. (2008). Keynote paper: Piezocone profiling of clays for maritime site investigations. *Geotechnics in Maritime Engineering*, Vol. 1 (Proceedings, 11th Baltic Sea Geotechnical Conference), Gdansk, Poland: 333-350.
- Uzielli, M. and Mayne, P.W. (2008). Comparative CPT-based classification of Cooper Marl. *Geotechnical & Geophysical Site Characterization 2008*, (Proc. ISC-3, Taipei), Taylor & Francis Group, London: 1203-1208.
- Mayne, P.W. and Burns, S.E. (2008). Common analytical model for piezocone and dilatometer in clays. *Geotechnical & Geophysical Site Characterization 2008*, (Proc. ISC-3, Taipei), Taylor & Francis Group, London: 1111-1116.
- Elhakim, A.F. and Mayne, P.W. (2008). Footing stress-displacement response using small-strain modulus. *Deformational Characteristics of Geomaterials*, Vol. 2 (Proc. 4th Intl. Symposium DCG, Atlanta), Millpress/IOS Press, Amsterdam: 937-944.
- Mayne, P.W. and McGillivray, A.V. (2008). Improved shear wave measurements using autoseis sources. *Deformational Characteristics of Geomaterials*, Vol. 2 (Proc. 4th ISDCG, Atlanta), Millpress/IOS Press, Amsterdam: 853-860.

- Schneider, J.A, Randolph, M.F, Mayne, P.W., and Ramsey, N. (2008). Influence of partial consolidation during penetration on normalized soil classification by piezocone. *Geotechnical & Geophysical Site Characterization 2008*, Taylor & Francis Group, London: 1159-1165.
- Mayne, P.W. and Woeller, D.J. (2008). O-cell response using elastic pile and seismic piezocone tests. *Proceedings of the Second British Geotechnical Association International Conference on Foundations (ICOF 2008)*, Vol. 1, Dundee, IHS BRE Press, UK: 235-246.
- Camp, W.M., Mayne, P.W., and Rollins, K.M. (2008). Cone penetration testing before, during, and after blast-induced liquefaction. *Geotechnical Earthquake Engineering & Soil Dynamics IV*, (Proc. UC-Davis), GSP No. 181, ASCE, Reston/VA, CD paper No. 120.
- McGillivray, A.V. and Mayne, P.W. (2008). An automated seismic source for continuous shear wave profiling. *Geotechnical & Geophysical Site Characterization 2008*, (Proc. ISC-3, Taipei), Taylor & Francis Group, London: 1347-1352.
- Mayne, P.W. and Woeller, D.J. (2008). Evaluating O-cell response from seismic cone tests. *Proceedings GeoEdmonton 2008* (61<sup>st</sup> Canadian Geotechnical Conference), Canadian Geotechnical Society. [www.cgs.ca](http://www.cgs.ca)

- **CONTINUING EDUCATION, PRESENTATIONS, and SEMINARS**

- Continuing Education: *Enhanced In-Situ Testing & Geotechnical Site Characterization*, Georgia Tech Global Learning Center, 30-31 March 2009.
- Invited Talk – 4<sup>th</sup> Michael O’Neill Lecture – *Foundation evaluation by in-situ testing*. University of Houston, 6 March 2009.
- Seminars on *In-Situ Cone Penetration Testing* to the South Ontario Section of the Canadian Geotechnical Society, Toronto, 18-20 February 2009.
- Continuing Education: Foundation Systems, GT Global Learning Center, 15 Dec. 2008.
- Invited Presentation: Axial behavior of drilled shafts in Piedmont geology. ADSC Seminar at the Holiday Inn Perimeter, Atlanta, 19-20 Nov. 2008.
- Continuing Education: *Enhanced In-Situ Testing & Geotechnical Site Characterization*, Georgia Tech Global Learning Center, 13-14 October 2008.
- Presentation: *Frequent-interval and continuous shear wave velocity profiling*. IS-Atlanta, GT Global Learning Center, 24 Sept. 2008.
- Invited Presentation: Piezocone testing for maritime site investigations, 11<sup>th</sup> Baltic Geotechnical Conference, Gdansk, 16 Sept. 2008.
- Seminars on *Seismic Piezocone Testing* to Fugro Engineers, Leidshendam, Holland, June 2008.
- Invited Presentation: *Seismic cone testing for foundations*. Montreal Section of the Canadian Geotechnical Society, 11 June 2008.
- Presentation: *Analytical model for CPTu and DMT in clays*. Third Intl. Conference on Site Characterization, Taipei, 3 April 2008.
- Continuing Education: *Enhanced In-Situ Testing & Geotechnical Site Characterization*, Georgia Tech Global Learning Center, 18-19 March 2008.

- **OTHER GEORGIA TECH ACTIVITIES**

- Chair - Fourth International Symposium on Deformation Characteristics of Geomaterials, 21-24 Sept. 2008, GT Global Learning Center: [www.isAtlanta2008.org](http://www.isAtlanta2008.org)
- 11th Sowers Symposium at the GT Student Center Auditorium & Ballroom, 5 May 2009.
- Geosystems Engineering PhD Comp Exams, Mason Building – January 2009
- Earth Day at Georgia Tech – 17 April 2009: The band "DrDrMrMD" will play at this event.
- *Sowers Symposium*, Georgia Tech Ballroom, 6 May 2008.
- Earth Day at Georgia Tech – 18 April 2008: The band "DrDrMrMD" played at the Student Center stage: <http://www.earthday.gatech.edu/performers.html>

- **PROFESSIONAL ACTIVITIES**

- ASCE *Conference Coordinating Committee* Meeting – 17 March 2009, Orlando
- Participant, International Conference on Foundations and Equipment Expo (IFCEE'09), Joint ASCE GeoInstitute-ADSC-PDCA Conference, Buena Vista Palace Hotel, Orlando, 15-19 March 2009: Technical Committee, Track Chair, Session Moderator, Presenter, Panel Discussion.
- FHWA CPT Users Group: 4 March 2009.
- Attendee, CIGMAT Conference, Houston, 6 March 2009.
- TC 16 Committee Meeting – Chair – IFCEE'09, 17 March 2009, during IFCEE'09.
- ASCE Engineering Geology and Site Characterization Committee; 15 March 2009, Orlando
- ASCE Deep Foundations Committee, 16 March 2009, Orlando
- FHWA CPT Users Group: 30 Sept 2008.
- Host of IFCEE'09 Technical Committee, Proceedings Group, 15 May 2008
- TC 16 Committee Meeting – Chair – ISC-3 Taipei, 4 April 2008. [www.webforum.com/tc16](http://www.webforum.com/tc16)

- **TEACHING**

- Spring 2008: CEE 6423 – In-Situ Testing & Site Characterization
- Spring 2008: CEE 4410 – Geosystems Engineering Design
- Fall 2008: CEE 6443 – Foundation Systems
- Spring 2009: CEE 6423 – In-Situ Testing & Site Characterization
- Spring 2009: CEE 4410 – Geosystems Engineering Design

- **HONORS**

- Invited to prepare and deliver the **State-of-the-Art (SOA-1): *Geomaterial Behaviour & Testing*** at the 17<sup>th</sup> ICSMGE – Alexandria Egypt, 5-9 October 2009: [www.issmge.org](http://www.issmge.org)
- Invited to give the **4<sup>th</sup> Michael O'Neill Lecture** – Univ. Houston, 6 March 2009: <http://cigmat.cive.uh.edu/>
- Invited to deliver the **GeoMo 2009 Seminar Lectures** – 8 May 2009: <http://geomomst.edu/>