

JUN. 1998 VOL. 124 NO. 6  
ISSN 1090-0241  
CODEN: JGGEFK

# JOURNAL OF GEOTECHNICAL and GEOENVIRONMENTAL ENGINEERING



**ASCE**

*The Geo-Institute of the  
American Society of Civil Engineers*

IN MEMORIAM

467

## TECHNICAL PAPERS

- Lateral Load Behavior of Full-Scale Pile Group in Clay  
**Kyle M. Rollins, Kris T. Peterson, and Thomas J. Weaver** 468
- Effect of Fines and Confining Stress on Undrained Shear Strength of Silty Sands  
**S. Thevanayagam** 479
- Properties of Artificially Cemented Carbonate Sand  
**J. T. Huang and D. W. Alrey** 492
- Foundation Liquefaction Countermeasures for Earth Embankments  
**Korhan Adaller, Ahmed-W. Elgamal, and Geoffrey R. Martin** 500
- Innovative Use of Slurry Walls at Dam Number 2 Hydropower Project  
**Jayant N. Sheth and Ronald L. Coker** 518
- Application of SASW Method Underwater  
**Barbara A. Luke and Kenneth H. Stokoe II** 523
- Antioxidant Depletion Lifetime in High Density Polyethylene Geomembranes  
**Y. G. Hsuan and R. M. Koerner** 532
- Influence of Rigidity on Laterally Loaded Pile Groups in Marine Clay  
**S. Narasimha Rao, V. G. S. T. Ramakrishna, and M. Babu Rao** 542

## DISCUSSIONS

- Centrifuge Modeling of Geotextile-Reinforced Cohesive Soil Retaining Walls.  
**A. Porbaha and D. J. Goodings. By Urszula Bogdanowicz** 551
- Dynamic Properties of Piedmont Residual Soil.  
**Roy H. Borden, Lisheng Shao, and Ayushman Gupta. By L. R. Hoyos Jr. and E. J. Macari. By Isao Ishibashi. By Paul W. Mayne, Yasser A. Hegazy, and Gina Kates Martin. Closure by authors** 551

*contents continued on back cover*

DISCUSSIONS *contents continued from front cover*

Deformation Characteristics of Piedmont Residual Soils. Chainchye E. Wang  
and Roy H. Borden.

**By Robert W. Day. By Paul W. Mayne and Dean E. Harris.**

**Closure by authors** ..... 555

**ERRATUM**

Unsaturated Hydraulic Conductivity of Compacted Sand-Kaolin Mixtures.

**Te-Fu Chiu and Charles D. Shackelford** ..... 558

**American Society  
of Civil Engineers**

1801 Alexander Bell Drive  
RESTON, VA 20191-4400

PERIODICALS



1090-0241(199806)124:6;1-D

00106515-0000 001 GT9806  
PIERRE BERNELLI  
BERNELLI CONSULTING  
3/5 SANTA VALERIA  
20123 MILANO  
ITALY