

## TESTING FORUM

### Symposium on Rock Classification Systems for Engineering Purposes to be Held in June

The *Symposium on Rock Classification Systems For Engineering Purposes* will be held in Cincinnati, OH, 25 June 1987.

Sponsored by ASTM Committee D-18 on Soil and Rock, this one-day seminar will include nine papers under the subtitles Rock Classification Systems and Case Histories.

The symposium will be held in conjunction with the 21–25 June 1987 standards development meetings of Committee D-18. All symposium attendees are welcome to participate in these meetings. There is no fee to attend these meetings, however, advance registration is strongly recommended.

A Special Technical Publication (STP) based on the symposium proceedings is anticipated by ASTM.

To receive a complete program booklet, including preregistration and hotel information, contact ASTM staff manager Bob Morgan, ASTM Standards Development Division, 1916 Race Street, Philadelphia, PA 19103, 215/299-5505.

Additional information is available from symposium chairman Louis Kirkaldie, USDA Soil Conservation Service, Box 2890, Washington, DC, 202/447-5858.

### International Workshop on Constitutive Equations

ASTM members in the United States and Canada will be interested to learn about a workshop to be held at Case Western Reserve University (CWRU) 22–24 July 1987 on Constitutive Equations for Granular Non-Cohesive Soils. This workshop, which is organized in cooperation with the Institute of Mechanics of the University of Grenoble is a part of the first U.S.-FRANCE Cooperative Project in Civil Engineering. A data base generated at Case from tests on hollow cylinders and in Grenoble from tests on cubes will be used to investigate the validity of present constitutive equations for sands. Distinguished researchers will discuss their theories and present their predictions to the international geotechnical community. It is expected that the data base will be made public and become a part of the data center created at CWRU. For information contact Prof. Adel S. Saada, Department of Civil Engineering, Case Western Reserve University, Cleveland, OH 44106 (216/368-2427).

### First International Symposium on Penetration Testing

The U.S. National Society of ISSMFE, in collaboration with ASCE Geotechnical Division, ASCE Florida Section, and the University of Florida Department of Civil Engineering take great pleasure in extending an invitation to the geotechnical community to participate in the **First International Symposium on Penetration**

**Testing** to be held at the Buena Vista Palace Hotel, located on Disney World property, near Orlando during 20–24 March 1988.

The objective of the symposium is to provide an opportunity for practicing geotechnical engineers and researchers to develop reference tests, to share experiences, present new ideas and achievements, and foster enthusiasm for insitu penetration testing.

Following the outstanding successes of ESOPT-I (The First European Symposium on Penetration Testing) in Stockholm in 1974 and ESOPT-II in Amsterdam in 1982, the ISSMFE Technical Committee on Penetration Testing decided in 1982, with the encouragement of Presidents V. de Mello and B. B. Broms, to have an International Symposium in 1988 at a nonEuropean location—hence the birth of ISOPT-1. At its meeting in San Francisco in 1985 the committee accepted an invitation from the Department of Civil Engineering of the University of Florida to host ISOPT-1 at a Walt Disney World location.

All correspondence pertaining to ISOPT-1 should be addressed to: Dr. John L. Davidson, General Secretary, Dept. of Civil Engineering, 346 Weil Hall, University of Florida, Gainesville, FL 32611. Telephone: (Access Code) 1-904-392-0957.

Field trips to the Kennedy Space Center, Walt Disney World Operations Center, the Tampa Bay Skyway Bridge, the Caselberry Sinkhole, and a phosphate mine are tentatively planned.

#### Tentative List of Symposium Subjects

- (1) Test report—ISSMFE Standard Penetration Test
- (2) Test report—ISSMFE Cone Penetration Test
- (3) Test report—ISSMFE Dynamic Cone Penetration Test
- (4) Test report—ISSMFE Swedish Weight Sounding Test
- (5) Lecture—Current Status of the Piezocone Test
- (6) Lecture—Status of National Standards for Penetration Tests
- (7) Lecture—Current Status of the Marchetti Dilatometer Test
- (8) Lecture—History of Penetration Tests
- (9) Lecture—Calibration of Penetration Tests
- (10) Lecture—New Developments in Penetration Tests & Equipment
- (11) Lecture—New Applications of Penetration Tests in Design Practice
- (12) Lecture—Avoiding Pitfalls and Solving Problems in Penetration Tests
- (13) Invited reviewer—ISOPT-1 and the Future of Penetration Testing—an Academic/Research Viewpoint
- (14) Invited reviewer—ISOPT-1 and the Future of Penetration Testing—a Practitioner's Viewpoint

#### Specialty Sessions—Possible Subjects

- Dynamic properties and liquefaction
- Large calibration chambers

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- Lateral stress effects and their insitu measurement
- Marchetti dilatometer
- New types of penetration tests and new developments
- Offshore testing
- Penetration tests in special soils (carbonate, loess, partially saturated, peats . . . )
- Penetration tests for environmental problems
- Penetration tests for pile capacity
- Penetration tests for shallow foundation design
- Piezocone testing
- Pore-pressure effects on penetration tests
- Push-in pressuremeters
- Quality control of ground improvement methods
- SPT energy calibration
- Statistical application of penetration test data
- Theoretical aspects of penetration testing
- Use of computers in penetration testing

## ASTM Subcommittee Spotlight

### Revision of Standards

*ASTM Committee D18.08* on Special and Construction Control Tests is in the process of revising two standards used for soil density determination, ASTM Density of Soil In Place by the Sand Cone Method (D 1556-82) and Density and Unit Weight of Soil In-Place by the Rubber Balloon Method (D 2167-84).

Information is being solicited from users for information regarding these standards, specifically, information and data on the bias, precision, and accuracy for each of the standards. Additionally, any ideas or suggestions for improving the standard would be appreciated. Information may be forwarded to: Keith Rademacher, UNC Technical Services, Inc., P.O. Box 14000, Grand Junction, CO 81502, (303) 242-8621 Ext. 313.

*ASTM Subcommittee D18.07* on Identification and Classification of Soils is currently working on a draft standard for Standard Method for Logging Boreholes in Soils. The subcommittee urgently seeks input into this effort and requests that any organization that currently has an internal procedure for performing this work please notify the subcommittee. Recommendations for input should be sent to Dr. Alan J. Lutenegeger, Dept. of Civil Engineering; Clarkson University; Potsdam, New York 13676.

# ASTM Committee D-18 on Soil and Rock

## Scope

The promotion of knowledge; stimulation of research; the development of specifications and methods for sampling and testing; and the development of nomenclature, definitions, and practices relating to the properties and behavior of soil, rock, and the fluids contained therein. Excluded are the uses of rock for building stone and for constituent materials in portland cement and bituminous paving and structures coming under the jurisdiction of other committees. Included are the properties and behavior of: (1) soil-like materials such as peats and related organic materials, (2) geotextiles, and (3) fluids occupying the pore spaces, fissures, and other voids in soil and rock insofar as such fluids may influence the properties, behavior, and uses of the soil and rock materials.

## Officers

**Chairman:** W. G. Shockley, 326 Lake Hill Dr., Vicksburg, MS 39180.

**First Vice-Chairman:** R. E. Gray, GAI Consultants, 570 Beatty Rd., Monroeville, PA 15146.

**Vice-Chairman:** Robert C. Deen, University of Kentucky, Kentucky Transportation Research Program, Transportation Research Bldg., Lexington, KY 40506.

**Vice-Chairman:** P. M. Jarrett, Royal Military College, Department of Engineering, Kingston, Ontario, Canada K7L 2W3.

**Vice-Chairman:** H. J. Pincus, University of Wisconsin—Milwaukee, Department of Geological Sciences, Sabin Hall, Milwaukee, WI 53201.

**Vice-Chairman:** R. S. Ladd, Woodward-Clyde Consultants, 1425 Broad St., Clifton, NJ 07012.

**Secretary:** R. J. Stephenson, U.S. Army Corps of Engineers, South Atlantic Division Lab., 611 S. Cobb Dr., Marietta, GA 30060.

**Membership Secretary:** H. F. Hanson, Los Angeles City, Department of Water and Power, P.O. Box 111, (510 E. Second St.), Los Angeles, CA 90051.

## Subcommittees and Their Chairmen

### TECHNICAL

#### **D18.01 Surface and Subsurface Reconnaissance**

C. B. Petterson

#### **D18.02 Sampling and Related Field Testing for Soil Investigations**

R. E. Brown

#### **D18.03 Texture, Plasticity, and Density Characteristics of Soils**

R. C. Horz

#### **D18.04 Hydrologic Properties of Soil and Rock**

D. E. Daniels

#### **D18.05 Structural Properties of Soils**

R. T. Donaghe

#### **D18.06 Physico-Chemical Properties of Soils and Rocks**

K. Hoddinott

#### **D18.07 Identification and Classification of Soils**

A. R. Howard

#### **D18.08 Special and Construction Control Tests**

J. R. Talbot

#### **D18.09 Dynamic Properties of Soils**

R. L. Ebelhar

#### **D18.10 Bearing Tests of Soils in Place**

G. Y. Baladi

#### **D18.11 Deep Foundations**

E. T. Mosley

#### **D18.12 Rock Mechanics**

W. G. Austin

#### **D18.13 Marine Geotechnics**

R. C. Chaney

#### **D18.14 Geotechnics of Waste Management**

G. D. Knowles

#### **D18.15 Stabilization by Additives**

M. C. Anday

#### **D18.16 Chemical Grouting**

R. H. Karol

#### **D18.17 Rock for Erosion Control**

C. H. McElroy

#### **D18.18 Peats and Organic Soils**

A. L. Burwash

#### **D18.19 Frozen Soil and Rock**

C. W. Lovell

#### **D18.20 Impermeable Barriers**

N. J. Cavalli

### ADMINISTRATIVE

#### **D18.91 Editorial**

G. N. Durham

#### **D18.92 Geotechnical Testing Journal**

V. P. Drnevich

#### **D18.93 Nomenclature for Soil and Rock Mechanics**

A. I. Johnson

#### **D18.94 Education and Training**

J. D. Antrim

#### **D18.95 Information Retrieval and Data Automation**

W. A. Marr

#### **D18.96 Research Steering and Standards Development**

Adrian Pelzner

#### **D18.97 Awards**

R. G. Packard

#### **D18.98 Hogentogler Award**

R. E. Gray

#### **D18.99 Quality Control**

T. A. Spellerberg