

TESTING FORUM

Committee D-18 News

June Meeting Planned

The next meeting of ASTM Committee D-18 on Soil and Rock for Engineering Purposes is scheduled for 18–21 June in Philadelphia, during the ASTM Committee Week there. All of the D-18 subcommittees (see list on back cover) are planning to hold meetings during this period. Work on standards will be discussed and activities will be planned. Subcommittee meetings are open to all interested persons and provide an excellent opportunity to find out what is going on in soil and rock testing. In addition, a one-day symposium will be held on "Permeability and Groundwater Contaminant Transport," under the sponsorship of Subcommittees D18.04 and D18.14. For more information on these meetings, contact staff manager Kenneth C. Pearson at ASTM Headquarters, 1916 Race St., Philadelphia, Pa. 19103 (215/299-5520) or D-18 Secretary Robert Packard, Portland Cement Association, Old Orchard Rd., Skokie, Ill. 60076.

Deep Foundations Symposium

An ASTM symposium, "Behavior of Deep Foundations," was held 28 June 1978 by Committee D-18 during ASTM's 81st Annual Meeting in Boston. The four-session symposium, which was chaired by Raymond Lundgren of Woodward-Clyde Consultants in San Francisco, included four state-of-the-art presentations and two panel discussions. The state-of-the-art sessions included presentations on "Design and Evaluation of Load Tests on Deep Foundations," by Dr. Lymon Reese of the University of Texas at Austin; "Soil Capacity for Supporting Deep Foundation Members," by Dr. M. I. Esrig of Woodward-Clyde Consultants in Clifton, N.J.; "Stresses in Piles," by Dr. Tom Davisson of the University of Illinois at Urbana; and "Pile Design Practice—Current and Proposed, as Reflected in Building Codes," by Frank Fuller of Raymond International, Inc., in Houston.

Some 30 technical papers were reviewed by the state-of-the-art speakers; these will be collected and published as ASTM Special Technical Publication 670. Several authors of these papers, as well as other experts in the field, joined the state-of-the-art speakers in the two panel discussions, which treated such subjects as computational methods for estimating pile capacities, load/settlement, and bending behavior; examples of instrumentation and interpretation of pile load tests; comparisons of pile capacities estimated during driving with load test capacities; some differences in codes and design practice for timber, concrete, and steel piles; designs for combined axial and moment loads on prestressed concrete piles; and detailed data on strength properties of timber piles and steel H piles.

The first panel discussion followed the presentations by Reese and Esrig and included the two state-of-the-art speakers and M. Bozozuk of Canada's National Research Council; John Rocht of McClelland Engineers, Inc.; D. M. Holloway of Woodward-Clyde Consultants; and C. P. Wroth of the University of Cambridge in England. The discussion was chaired by Lundgren. The second

panel discussion, chaired by R. D. Darragh of Dames and Moore in San Francisco, included the other state-of-the-art speakers and R. M. Armstrong of Raymond International in Houston, William Gamble of the University of Illinois, Thomas Dismuke of the Bethlehem Steel Corp., Wallace Norum of the National Forest Products Association, and W. F. Swiger of Stone and Webster Engineering Co.

STP 670 will be dedicated to the memory of professor emeritus William S. Housel of the University of Michigan, who helped to establish Committee D-18 in 1936. As a professor of civil engineering for 46 years, and a consultant to the Michigan Department of Highways for 36 years, Dr. Housel made significant contributions to the testing and design of deep foundations.

Precision and Accuracy

A recent workshop on precision and accuracy statements for D-18 test methods, organized by Subcommittee D18.99 on Presentation of Data, sparked a spirited discussion that lasted for over three hours, reflecting substantial interest in this complex topic. The meeting was organized for D-18 subcommittee officers, since subcommittees are responsible for developing precision and accuracy statements for standards within their jurisdiction, and it was attended by about 35 officers from D-18 and other interested committees. The workshop took place 26 June 1978 in Boston, during ASTM's Annual Meeting there.

Of 64 standards developed by Committee D-18, it was found, only 4 already have precision and accuracy statements. Such statements are needed for 48 more of the D-18 standards, while 12 standards do not require them. Sampling variability, development, and laboratory studies were among the many issues covered in the workshop, which was chaired by D18.99 chairman W. A. Goodwin. Also included were presentations on "A Practical Approach to Developing a Reasonable Statement" by Garland Steele, chairman of Subcommittee C09.02.01 on Data Evaluation of Committee C-9 on Concrete and Concrete Aggregates, and on problems that can occur in developing precision and accuracy statements, by D18.99 member M. C. Anday. Two ASTM standards were noted for their usefulness in developing these statements: C 670, Recommended Practice for Preparing Precision Statements for Test Methods for Construction Materials, and C 802, Practice for Conducting an Interlaboratory Test Program to Determine the Precision of Test Methods for Construction Materials. All in all, the workshop served to acquaint those who attended with the status of precision and accuracy development in the Society, and to underline each subcommittee's responsibility to proceed on its own initiative.

New D-18 Officers

New officers for ASTM Committee D-18 were elected in June 1978 during the Society's Annual Meeting in Boston. Pictured here are (left to right, seated) R. G. Packard of the Portland Cement Association in Skokie, Ill., the committee's secretary; E. T. Selig of the University of Massachusetts in Amherst, its



second vice-chairman; A. I. Johnson of the U.S. Geological Survey in Reston, Va., the chairman; and R. J. Stephenson of the U.S. Army Corps of Engineers in Marietta, Ga., the membership secretary. Standing are (left to right) members at large M. R. Thompson of the University of Illinois at Urbana, A. Pelzner of the National Forest Service in Washington, D.C., and V. P. Drnevich of the University of Kentucky in Lexington; First Vice-Chairman J. W. Guinnee of the Transportation Research Board in Washington, D.C.; members at large N. O. Schmidt of the University of Missouri in Rolla and S. A. Tiedemann of the U.S. Bureau of Reclamation; Past Chairman E. B. Hall of E. B. Hall, Inc., in San Rafael, Calif.; and D-18 staff manager K. C. Pearson of ASTM. Missing from the photograph is R. E. Gray of GAI Consultants, Inc., of Monroeville, Pa., a member at large.

International Land Subsidence Survey

The International Association of Hydrological Sciences has been conducting a survey on land subsidence occurrence, research, and remedial activities throughout the world. The questionnaire for the survey is detailed, requesting information on locations, causes, amounts, and rates of subsidence; problems and costs resulting from the subsidence and remedial measures taken; research, completed or in progress; and publications describing the area or research.

Plans call for IAHS to publish all responses received from this survey. In addition, the information will be used in connection with a state-of-the-art case book that will be published by UNESCO.

The questionnaire has been circulated to many organizations and individuals throughout the world. Anyone who was not contacted may request a copy in either English or French from A. I. Johnson, first vice-president, International Association of Hydrological Sciences, U.S. Geological Survey National Center, MS 417, Reston, Va. 22092.

Upcoming Meetings

Fracture Toughness Meeting

Subcommittee E24.07 on Fracture Toughness of Brittle Non-metallic Materials, a unit of ASTM Committee E-24 on Fracture Testing, will meet 29 April 1979 in Cincinnati, Ohio. All interested persons are invited to attend. Those wishing more information about E24.07 or the meeting may contact subcommittee chairman S. W. Freiman at the National Bureau of Standards, Washington, D.C. 20234 (301/921-2901).

Geotechnics of Mining Seminar

"Geotechnics of Mining" will be the topic of the 1979 Ohio River Valley Soils Seminar, scheduled to take place 5 October 1979 in Lexington, Ky. Those wishing more information may contact ORVSS X, Anderson Hall, Department of Civil Engineering, University of Kentucky, Lexington, Ky. 40506.

In-Situ Testing Symposium

The Indian Geotechnical Society, in cooperation with other academic and governmental organizations, will sponsor a symposium on "In-Situ Testing of Soils and Rocks and Performance of Structures," 19-22 December 1979 at the University of Roorkee in Roorkee, India. English will be the official language of the meeting.

Technical papers presented at the symposium will cover a variety of themes, including the planning of field explorations and geotechnical engineering tests for various projects; hazards in exploration in difficult soil and rock conditions, and remedial measures; geological and geophysical investigations for civil engineering purposes; evaluation of field test data for design purposes; case histories of observations of performance and comparisons with anticipated performance; field instrumentation; field testing of rock-fill materials and boulders; and micro-seismic monitoring for unstable rocks. Those wishing more information may contact Dr. Swami Saran, organizing secretary, Symposium on In-Situ Testing of Soils and Rocks, Room 211, Civil Engineering Department, University of Roorkee, Roorkee (U.P.) 247672, India.

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ASTM Committee D-18 on Soil and Rock for Engineering Purposes

Scope

The promotion of knowledge, stimulation of research, and the development of specifications and methods for sampling and testing, nomenclature and definitions, and recommended practices relating to the properties and behavior of soil and rock for engineering purposes. 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.

It will be the policy of this committee to avoid, insofar as it is possible, dealing with methods of design of engineering structures and all those features of general practice in the use of soil and rock as engineering materials which may not comprise methods of sampling and testing. It will, however, be considered within the scope of the committee's work to promote by every desirable means the close cooperation of other organizations and committees whose field of endeavor is closely allied to that of soil and rock testing.

Officers

Chairman: A. I. Johnson, U.S. Dept. of the Interior, Geological Survey, 12201 Sun Rise Valley Dr., M.S. 417, Reston, Va. 22092

First Vice-Chairman: J. W. Guinnee, Transportation Research Board, 2101 Constitution Ave., N.W., Washington, D.C. 20418

Second Vice-Chairman: E. T. Selig, Civil Engineering Dept., Marston Hall 235, University of Massachusetts, Amherst, Mass. 01003

Secretary: R. G. Packard, Portland Cement Assn., Old Orchard Rd., Skokie, Ill. 60076

Membership Secretary: R. J. Stephenson, U.S. Army Corps of Engineers Div. Lab., P.O. Box 51, Marietta, Ga. 30060

Subcommittees and Their Chairmen

TECHNICAL

D18.01 Surface and Subsurface Reconnaissance

R. E. Gray

D18.02 Sampling and Related Field Testing for Soil Investigations

H. E. Davis

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

R. S. Ladd

D18.04 Hydrologic Properties of Soil and Rock

C. O. Riggs

D18.05 Structural Properties of Soils

J. P. Singh

D18.06 Physico-Chemical Properties of Soils and Rocks

N. O. Schmidt

D18.07 Identification and Classification of Soils

D. A. Tiedemann

D18.08 Special and Construction Control Tests

J. R. Talbot

D18.09 Dynamic Properties of Soils

M. L. Silver

D18.10 Bearing Tests of Soils in Place

S. Williams

D18.11 Deep Foundations

F. M. Fuller

D18.12 Rock Mechanics

E. R. Podnieks

D18.13 Marine Geotechnics

A. F. Richards

D18.14 Soil and Rock Pollution

T. F. Zimmie

D18.15 Stabilization by Additives

M. C. Anday

D18.16 Chemical Grouting

R. H. Karol

R. C. Deen

ADMINISTRATIVE

D18.91 Editorial

R. C. Deen

D18.92 Papers

E. T. Selig

D18.93 Nomenclature for Soil and Rock Mechanics

A. I. Johnson

D18.94 Education and Training

R. H. Karol

D18.95 Information Retrieval and Data Automation

A. Pelzner

D18.96 Research Steering

J. W. Guinnee

D18.97 Special Awards

C. B. Crawford

D18.98 Hogentogler Award

E. T. Selig

D18.99 Evaluation of Data

W. A. Goodwin