

TESTING FORUM

Committee D-18 News

Awards Banquet Honors Members' Contributions

Members of ASTM Committee D-18 on Soil and Rock for Engineering Purposes were honored for special contributions to soil science and the work of the committee at an awards dinner at the Society's Headquarters in Philadelphia in June. The feature presentation of the evening was the committee's first Outstanding Service Award, bestowed on *Geotechnical Testing Journal* technical editor Ernest T. Selig of the University of Massachusetts. Selig, who is D-18's second vice-chairman, was honored for his contributions to the Journal. In presenting the award, D-18 Chairman A. Ivan Johnson of Woodward-Clyde Consultants in Denver stated that "the rapid success of the new Journal was due in large measure to the efforts, enthusiasm, and perseverance of Dr. Ernie Selig. It is a distinct pleasure, and a well-deserved honor, to see Dr. Selig's name be the first to appear on the Committee D-18 plaque at ASTM Headquarters." The plaque will bear the names of all future recipients of the Outstanding Service Award as well.

Also honored during the evening were three authors from the University of Kentucky in Lexington, Vincent P. Drnevich, Bobby O. Hardin, and David J. Shippy. They received ASTM's 1979 C. A. Hogentogler Award for their paper, "Modulus and Damping of Soils by the Resonant Column Method," which appeared in ASTM Special Technical Publication 654, *Dynamic Geotechnical Testing*. In addition, W. G. Shockley of the U.S. Army Waterways Experiment Station in Vicksburg, Miss., received the ASTM Award of Merit, naming him a Fellow of the Society; honorary membership in D-18 was bestowed on B. B. Gordon of Woodward-Clyde Consultants in San Francisco; and D-18 special service awards were granted to four committee members, R. S. Ladd of Woodward-Clyde Consultants in Clifton, N.J., E. R. Podnieks of the U.S. Bureau of Mines in St. Paul, Raymond Lundgren of Woodward-Clyde Consultants in San Francisco, and H. J. Pincus of the University of Wisconsin at Milwaukee.

Geotechnical Data Files

There are numerous data files with geotechnical, hydrological, geophysical, and related information that would be of use to geotechnical engineers if they knew of their existence. Subcommittee D18.95 on Information Retrieval and Data Automation will prepare a directory of such files, indicating the contents of the files, the agencies maintaining them, the cost of obtaining information from the files, and other pertinent information. Information concerning the availability of such data files should be directed to Robert C. Deen, Assistant Director of Research, Kentucky Department of Transportation, 533 S. Limestone, Lexington, Ky. 40508.

Subcommittee Activities

D18.09 on Dynamic Properties of Soils—A report of a round-robin test program on the resonant column test is being prepared

for publication in the *Geotechnical Testing Journal*. The test procedure is expected to be submitted to a subcommittee letter ballot this year. Members S. K. Saxena and L. P. Kaufman are recasting Nuclear Regulation 31 into ASTM standard form as a dynamic strength test. R. C. Chaney is working on a cross-hole properties test. Also, consideration is being given to preparation of a standard for X-ray identification of specimens.

D18.15 on Stabilization by Additives—A proposed standard for preparation of test specimens of asphalt-stabilized soils is currently in preparation. Revisions are being made to a proposed standard for compressive strength of molded soil-lime cylinders, following a negative main committee ballot; the revised standard will be resubmitted for balloting. A proposed standard on one-dimensional expansion, shrinkage, and uplift pressure of soil-lime mixtures has been approved by the committee and is being forwarded for Society balloting.

D18.93 on Nomenclature for Soil and Rock Mechanics—This subcommittee is currently working on resolving negative votes on a long list of definitions slated for inclusion in D 653, Definitions, of Terms and Symbols Relating To Soil and Rock Mechanics.

Task Group for D-18 in the 1980s—At a June meeting in Philadelphia, general recommendations for the future direction and activities of Committee D-18 were agreed on; the task group plans to have a draft report ready by January 1980, with final presentation to the D-18 Executive Committee scheduled for June 1980.

Call for Papers

Contributions are sought for an ASTM symposium, "Fracture Mechanics Methods for Ceramics, Rocks, and Concrete," which will take place during the week of 23 June 1980 in Chicago. The symposium is cosponsored by Committee D-18 and Subcommittee E24.07 on Fracture Toughness of Brittle Nonmetallic Materials, a unit of Committee E-24 on Fracture Testing.

Both analytical and experimental papers are encouraged. Papers discussing the use of fracture mechanics data for strength or lifetime predictions are of interest, as are those concerned with the use of fractography as a means of correlating fracture mechanics and strength data. Papers dealing with problems or inconsistencies in results using certain techniques are also welcome.

Prospective authors should submit a 200-word abstract and an ASTM paper offer form by 15 December 1979 to Dr. Stephen W. Freiman, Fracture and Deformation Division, National Bureau of Standards, Bldg. 223, Room A355, Washington, D.C. 20234 (301/921-2901). Offer forms may be obtained from Kathleen Greene, ASTM Publications Division, 1916 Race St., Philadelphia, Pa. 19103 (215/299-5414). Completed manuscripts will be due by 1 March 1980.

ASCE Definitions Committee Meets

Boston was the site for an April meeting of the American Society of Civil Engineers Geotechnical Engineering Division Committee on Definitions and Standards. In attendance were Chairman A. Ivan Johnson of Woodward-Clyde Consultants in

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Denver, Robert W. Carr of the City of Los Angeles, Adrian F. Richards of Lehigh University in Bethlehem, Pa., and Marshall L. Silver of the University of Illinois in Chicago.

The committee reviewed a paper prepared by Professor Silver to present the committee's recommended metric practice for geotechnical engineering. As soon as a revised final draft is available, plans call for publishing this position paper in the *ASCE/GTD Journal* and in the *Geotechnical Testing Journal*.

Review comments from the readers will be encouraged to assist

this committee in developing a geotechnical metric practice guide.

Other business included discussions about various ways by which the committee could best keep the GTD members informed about new standards, regulations, and laws that might interest or affect the membership. Interface with ASTM Subcommittee D18.93 on Nomenclature for Soil and Rock Mechanics also was discussed and a recent ASTM ballot of revised definitions was reviewed.

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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, Water Resources Consultant, Woodward-Clyde Consultants, Denver, Colo. 80204

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

S. K. Saxena

D18.06 Physico-Chemical Properties of Soils and Rocks

G. R. Olhoeft

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

D18.17 Rock for Erosion Control

K. L. Saucier

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

N. O. Schmidt

D18.95 Information Retrieval and Data Automation

R. C. Deen

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