ASTM Committee D18 on Soil and Rock Expands Its Horizons for the Nineties

ASTM Committee D18 on Soil and Rock has focused its efforts toward engineering applications for over fifty years. In the 1980s, D18 broadened its scope to increase subcommittee activities on environmental issues such as groundwater and vadose investigations, geotechnics of waste management, hydraulic barriers, etc. In the 1990s, D18 is initiating a program to promote the knowledge and standards development in the area of *soils as a medium for plant growth*. Proposed areas already identified as needing standards include: nutrient testing of soils; pesticide residue testing of soils; guidelines for placing, spreading, and seeding topsoil; specifications for bag mix topsoil and seed starter mix; and chemical measurements for organics in soil.

Keith Hoddinott, Chairman of Subcommittee D18.06 on Physico-Chemical Properties of Soils and Rocks, is heading up this effort. This subcommittee, under section D18.06.01 on Soils as a Medium for Plant Growth, is actively seeking new ideas on what standards are needed, along with new members to develop them. This subcommittee will be meeting during ASTM Committee Week of 23–27 June 1991 in Atlantic City, NJ. For additional information contact: Keith Hoddinott, U.S. Army Environmental Hygiene Agency, ATTN: HSHB-ME-SR, Aberdeen Proving Grounds, MD 21010 (301-671-4211) or Robert J. Morgan, ASTM, 1916 Race Street, Philadelphia, PA 19103-1187 (215-299-5400).

7th International Conference on Expansive Soils

The 7th International Conference on Expansive Soils will be held in Dallas, Texas, 3–5 Aug. 1992.

Many advances have been made in understanding the nature of expansive soils since the first international conference in 1965. Expansive soils are now considered to be part of the broader field of unsaturated soils. In recognition of this, the 7th International Conference on Expansive Soils, while retaining expansive soils as its focus, will be a broad-based conference including other types of unsaturated soil behavior. The conference will address practical and theoretical solutions to problems, the relationship between climate and environment and the subsequent effect on constructed facilities, remedial measures and effective construction techniques, prediction techniques, and other unsaturated soil concerns.

The goal of the conference is to share advances in state-ofthe-art developments and state-of-practice among practicing engineers, engineering geologists, geologists, constructors, and academicians. It is hoped that a candid exchange of ideas, findings, and lessons learned will spark the creation of new knowledge about and new solutions to the world-wide problem of man building and living on heaving, shrinking, and collapsing soils.

For information about the conference contact: Warren K.

Wray, Department of Civil Engineering, Texas Tech University, Lubbock, Texas 79409-1023. Tel: (806) 742-3523; FAX: (806) 742-3488; Telex: 9108964398.

Request for Information Regarding Experience in the Maintenance and Rehabilitation of Monitoring Wells

American Society for Testing and Materials Section D.18.21.06 (Monitoring Well Maintenance, Rehabilitation, and Abandonment) is developing a draft standard practice for the maintenance and rehabilitation of monitoring wells. The section would like to hear from members regarding their experience in the maintenance and rehabilitation of monitoring wells, product recovery, water supply, and other wells. Of particular interest are wells used in monitoring hazardous waste or recovery of contaminants (free product and dissolved constituents). In addition, any experience involving the maintenance and rehabilitation of vadose zone monitoring devices is also requested. Contact Steve Nacht, Chairman, at Reynolds Electrical & Engineering Co., Inc. (REECo), at Post Office Box 98521, M/S 711, Las Vegas, NV 89193 or by phone at (702) 295-7234.

Nancy M. Trahey Elected Vice-Chairman of ASTM Board of Directors

Nancy M. Trahey, chief of the Laboratory Accreditation Program, U.S. Department of Commerce at the National Institute of Standards and Technology (NIST) in Gaithersburg, Maryland, has been elected to a two-year term as vice-chairman of the ASTM Board of Directors. Her term of office began 1 Jan. 1991.

Trahey is responsible for the National Voluntary Laboratory Accreditation Program (NVLAP) within the Office of Measurement Services—Directorate of Industrial Technology Services.

Her professional career has been concentrated in the areas of analytical chemistry of irradiated and unirradiated nuclear fuel materials (including the development and evaluation of wet chemical, radiochemical, and gamma ray spectrometric analytical techniques), reference materials and measurement evaluation programs and the preparation, characterization, and certification of uranium and plutonium reference materials.

Trahey completed a three-year term as chairman of the Committee on Terminology in 1982, served as a director of the Society from 1983 to 1985, and as treasurer from 1988 to 1990. She is a member and past chairman of ASTM Committee C-26 on Nuclear Fuel Cycle, having completed her third two-year term in 1987, the same year in which she received the Award of Merit. She is also a member of Committees E-10 on Nuclear Technology and Applications and E-36 on Laboratory and Inspection Agency Evaluation and Accreditation.

Trahey received her B.S. degree in chemistry from Immaculate Heart College in 1962.

A past chairman (1985–1986) of the Isotopes and Radiation Division of the American Nuclear Society (ANS), as well as a member of the Fuel Cycle and Waste Management Division, Trahey served a three-year term on the ANS Board of Directors (1986–1989). She is currently serving the fourth year of a term on the ANS Standards Steering Committee (1988–1991) and is general chairman of a topical conference on nuclear safeguards to be held in October 1991. Trahey is also a member of the American Chemical Society, the Standards Engineering Society, and the American Association for the Advancement of Science.

Cyrus P. Henry, Jr. Elected to ASTM Board of Directors

Cyrus P. Henry, Jr., senior research associate at the Petoleum Lab at E. I. duPont de Nemours & Company, Inc. in Deepwater, New Jersey, has been elected to a three-year term on the ASTM Board of Directors. His term of office began 1 Jan. 1991.

Henry has been first vice-chairman of Committee D-2 on Petroleum Products and Lubricants since 1988. He organized and became the first chairman of Section E-5 on Fuel Stability and Cleanliness and served as assistant secretary (later secretary) of Subcommittee J on Aviation Fuels. He was the coeditor of Special Technical Publication (STP) 751—Distillate Fuel Stability and Cleanliness and presented a technical paper in STP 1005—Distillate Fuel: Contamination, Storage, and Handling. He was presented with the ASTM Award of Merit in 1986 and, subsequently, has served at Society level as a member of the ASTM Award of Merit Committee from 1989 to the present.

Henry holds a B.S. in chemistry from Carnegie Institute of Technology and a Ph.D. in organic chemistry from the University of Wisconsin.

Henry is also a participant in the activities of the Canadian General Standards Board, especially their Aviation Fuel and Middle Distillate Committees. In addition, he is a member of the Coordinating Research Council's Aviation Fuel, Lubricant, and Equipment Research Committee; the International Air Transport Association Aviation Fuel Task Force; and the International Association for Stability and Handling of Liquid Fuels. Henry is recognized internationally as an authority on additives for middle distillate and jet fuels and on specifications for jet fuels.

Betty I. Dunbar Elected to ASTM Board of Directors

Betty I. Dunbar, staff chemist with Hercules, Inc. in Wilmington, Delaware, has been elected to a three-year term on the ASTM Board of Directors. Her term of office began 1 Jan. 1991.

Dunbar has been with Hercules, Inc. since 1974. She is responsible for the sensory evaluation of Hercules' products and items manufactured from or packed in Hercules' products. Dunbar is also responsible for the analysis of Hercules products to assure compliance with Food and Drug Administration (FDA) regulations. She deals in coordination of multidisciplinary analytical problems.

Dunbar is active in several ASTM committees. She has been chairman of Committee E-18 on Sensory Evaluation of Materials and Products since 1988. She is also a member of Committees D-10 on Packaging, E-15 on Industrial Chemicals, F-2 on Flexible Barrier Materials, and F-10 on Food.

Dunbar holds a B.S. in chemistry from the State University of New York at Cortland and an M.A. in chemistry from the State University of New York at Buffalo.

In addition to ASTM, she is also a member of the American Chemical Society and has served as treasurer of its Delaware section. She has held elective offices in the Hercules' Research Center Women's Club.

Jon A. Epps Elected to ASTM Board of Directors

Jon A. Epps, dean of the College of Engineering at the University of Nevada-Reno in Reno, Nevada has been elected to a three-year term on the ASTM Board of Directors. His term of office began 1 Jan. 1991.

He joined the staff of Texas A & M University in 1968 as an assistant professor and was involved in teaching, research, and service activities in the department of civil engineering and the Texas Transportation Institute. Epps joined the staff at the University of Nevada-Reno in 1982 and served as chairman of the department of civil engineering for two years. He was appointed dean in 1987.

Epps is the immediate past-chairman of ASTM Committee D-4 on Road and Paving Materials and has been chairman of Subcommittee D04.44 on Rheology. He has also been chairman of D18.15.02 on Stabilization with Bituminous Materials, a subcommittee of D-18 on Soil and Rock, and is also a member of Committee E-17 on Pavement Management Technologies.

Epps is chairman of the Transportation Research Board Committee on General Asphalt Problems, a member of the Federal Highway Administration Advisory Panel on Pavement Recycling, and Joint AASHTO-AGC-ARTBA Task Forces on Recycling of Asphalt Pavements and Polymer Modified Asphalts. He is also past president of the Association of Asphalt Paving Technologists. He received the Texas A & M University General Dynamics Award for Excellence in Teaching in 1973, the Former Students Association Faculty Distinguished Achievement Award in Research in 1982, and the Emmons Award, presented by the Association of Asphalt Paving Technologists, for his papers on pavement recycling in 1981 and mixture design in 1985.

He received his B.S., M.S., and Ph.D. degrees from the University of California, Berkeley and is a licensed professional engineer in Texas. Epps has published numerous papers, pub-

lications, and formal presentations including extension work. Topics of these papers and presentations include asphalt mixture properties, maintenance management, recycling pavement materials, pavement design, and economics of pavement systems.

Donald J. Sharp Named 1990 Recipient of ASTM's L.J. Markwardt Award

Donald J. Sharp, a systems performance engineer for the Trus Joist Corporation in Boise, Idaho, is the 1990 recipient of the L.J. Markwardt Award.

Sharp, a native and resident of Curtis Road in Boise, was recognized 30 Oct. 1990 in Madison, Wisconsin. He received the award in recognition of his research and standards activities for Committee D-7 on Wood, concerned with the establishment of reliable design values for glued wood structural members.

The L.J. Markwardt Award is given for distinguished contributions in the field of wood engineering as related to research, leading to improved design procedures, as well as the continuing administration of wood research on a broad scale.

Sharp was employed by the Nevada State Highway on Survey Crew prior to joining Trus Joist Corporation 24 years ago. He has served in various positions as engineer, operations engineer, technician, and engineer programmer. A member of ASTM since 1975, Sharp is also involved in many community and professional activities. He is a recognized professional engineer in the states of Idaho, Florida, New Jersey, Ohio, and Oregon.

New Chairman, Vice-Chairman, Treasurer, and Six Directors Elected to ASTM Board of Directors

ASTM announced the election of a new chairman, vice-chairman, treasurer, and six directors to the 1991 Board of Directors, who began their terms of office 1 Jan. 1991. They are: John A. Millane, chairman; Nancy M. Trahey, vice-chairman; Henry J. Roux, treasurer; and Donald S. Abelson, Norma L. Bottone, Betty I. Dunbar, Jon A. Epps, Allen W. Grobin, Jr., and Cyrus P. Henry, Jr., directors.

John A. Millane, president of Tinius Olsen Testing Machine Company in Willow Grove, Pennsylvania, will serve a one-year term in 1991 as chairman of the ASTM Board. Millane previously served as vice-chairman from 1989 to 1990 and as a director from 1986 to 1988.

Nancy M. Trahey will serve as the second vice-chairman of the ASTM Board. Trahey is responsible for the National Voluntary Laboratory Accreditation Program (NVLAP) within the

Note to AuthorsMany authors who prepare papers or technical notes for the ASTM
Geotechnical Testing Journal are not cognizant of the distinction between
the words sample and specimen. When preparing material for the Journal,
authors should be especially sensitive to correct usage of these words. To
promote uniformity and to make the editorial process more efficient, the
following definitions are presented.DEFINITIONSample—A representative portion of a whole; a small segment or quantity
taken as evidence of the character of an entire group or lot. For geo
technical work, a sample is the material taken in the field as representative
of a given soil or rock strata, deposit, or area. Samples are often shipped
to a laboratory for study.Specimen—A particular single item, part, aspect, or incident that is typical

Specimen—A particular single item, part, aspect, or incident that is typical and indicative of the nature, character, or quality of others in the same class or group (sample). A unit, as of a mineral, a soil, or a rock core, that is deliberately selected for examination or study and is usually chosen as typical of its kind. A portion of material for use in testing. Again, for geotechnical work, a *specimen* is a representative part or portion of the larger *sample*, and individual *specimens* are prepared for laboratory testing.

Note to Authors

A new author-date reference style has been instituted for the *Geotechnical Testing Journal* beginning in 1991. Authors who prepare papers for GTJ should be cognizant of the new style. Authors' names and publication dates are cited in the text. An alphabetical list of all cited references is placed at the end of the article.

The writer of the article must check that all references have at least one text citation and that all text citations are traceable to a complete reference. Lengthy strings of numerous works within one text citation cannot be accommodated in this reference system since they disrupt the continuity of the text.

TEXT CITATION STYLE

1. The basic form in the author-date system consists of the last name of an author and the publication year as follows:

(Jenkins 1980)

Two authors are handled as follows:

(Jenkins and Smith 1982)

Use et al. for three or more authors:

(Jenkins et al. 1969)

- 2. "Author" in this reference system is defined as the name under which the work is alphabetized in the list of works cited at the end of the article. Thus "author" may refer to an editor, compiler, or an organization as well as an individual author or group of authors. Anonymous is not an acceptable designator for the author of a referenced work. If authorship cannot be determined, an article is listed under its title, and a short title is used in the citation.
- 3. The citation is usually set off in parentheses just before a mark of punctuation, but it can be handled as part of the sentence. Both styles are illustrated below:

The test was carried out successfully (Carter 1980). Carter (1980) carried out a successful test.

4. Two works by the same author in the same year are set up with letters as designators as follows:

(Kelly 1986a, 1986b)

The publication dates in the full reference list must then be keyed to 1986a and 1986b by the writer of the article.

- 5. Several works by one author in different years are handled as follows: (Kelly 1982, 1985, 1988)
- 6. Several works by different authors are handled as follows: (Light 1980; Wong 1982; Smith 1985)
- 7. When an article or book has no individual author, editor, or compiler named and is sponsored by a corporation, government agency, association, or other named group, use the name of the sponsor as the author's name in both the text reference and the alphabetical reference list. If the whole name is long and cumbersome, abbreviate it to a manageable size within the text citation but make sure that the ab-

continued
breviated form is easily traceable to the full reference. For example:
Composites Research Institute and Materials Structural Analysis So- ciety, 1989, <i>Composites for Small Aircraft Applications</i> , University of Pennsylvania Press, Philadelphia, PA, pp. 25–30.
Citation would be (Composites Research Institute 1989).
ALPHABETICAL REFERENCE LIST STYLE
All cited author references are listed alphabetically by the last name of the first author at the end of each paper. Please see definitions of "author" in the text citation above. Each reference must be complete containing sufficient information for the reader to locate the cited source. For the reader's convenience, the year of publication is placed immediately after the author's name. If there is more than one article by the same author, list the references for that author chronologically from earliest to most recent work. References for books and periodicals are illustrated below.
Books:
Last names and initials of all authors, year of publication, "title of the paper," <i>title of the book</i> , publisher's full name, publisher's location, inclusive page numbers.
Periodicals:
Last names and initials of all authors, year of publication, "title of the paper," <i>full title of the periodical</i> (do not abbreviate), volume, number, inclusive page numbers.

Office of Measurement Services—Directorate of Industrial Technology Services, at the U.S. Department of Commerce, National Institute of Standards and Technology in Gaithersburg, Maryland. She served as treasurer of the Society from 1988 to 1990 and as a director from 1983 to 1985.

Henry J. Roux, president of Roux International, Inc. in Lancaster, Pennsylvania, will serve a one-year term as treasurer of the Society. Roux is a consultant in product fire performance.

The six new directors will serve three-year terms on the ASTM Board. Donald S. Abelson is deputy assistant, U.S. trade representative for North American Affairs in the Office of the U.S. Trade Representative, Executive Office of the President. Norma L. Bottone is manager of Testing Services at the Parma Technical Center of UCAR Carbon Company in Parma, Ohio. Betty I. Dunbar is a staff chemist at the Research Center of Hercules, Inc. in Wilmington, Delaware. Jon A. Epps is dean of the College of Engineering at the University of Nevada-Reno in Reno, Nevada. Allen W. Grobin, Jr. is the standards project authority for metallic and inorganic coatings for IBM Corporation in Poughkeepsie, New York. Cyrus P. Henry, Jr. is a senior research associate at the Petroleum Laboratory at E. I. duPont de Nemours & Company, Inc. in Deepwater, New Jersey.

NEW BOOKS OF INTEREST FROM ASTM

TITLE: PLAIN TALK: The Legacy of William T. Cavanaugh at ASTM

AUTHORS: Henry J. Stremba and Wayne P. Ellis

DESCRIPTION: The outstanding success of the ASTM consensus process is not something Bill Cavanaugh (ASTM's chief executive from 1970– 1985) inherited. In the 1960s, ASTM's finances were dire, its mission muddled and future bleak. It lacked, in Cavanaugh's plain talk, "management."

"Management" in what Cavanaugh supplied—in abundance.

This book recounts Bill Cavanaugh's successful management of the consensus process

to make ASTM the world's largest, most successful developer of voluntary consensus standards. It serves not only to record the history of a remarkable manager in a remarkable institution, but to provide for future ASTM participants—both volunteers and staff—and for managers in not-for-profit enterprises in general, guidelines for the positive use of consensus in reaching public-service objectives.

AUDIENCE: Association managers; standards developers

354 Pages (1990); Hard Cover List Price: \$18.00 Member Price: \$15.00 ISBN 0-8031-1234-3 PCN: 13-600001-64

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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: soil-like materials such as peats and related organic materials, and 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.

The area of interest of the Committee is the testing of soil, rock and such materials that may be intimately associated with soil and rock. It will be the policy of this Committee to avoid, insofar as possible, dealing with methods of design of engineering structures and all those features of general practice in the use of soil and rock which may not involve the development of standards. 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: R. S. Ladd, Woodward-Clyde Consultants, Clifton, NJ 07012.
- First Vice-Chairman: R. J. Stephenson, U.S. Army Corps of Engineers, Marietta, GA 30060.
- Vice-Chairman: C. W. Lovell, Purdue University, School of Civil Engineering, West Lafayette, IN 47906.
- Vice-Chairman: J. R. Talbot, U.S.G. AGRC. Soil Conservation Service, P.O. Box 2890, Washington, DC 20013.
- Vice-Chairman: H. J. Pincus, P.O. Box 275987, San Diego, CA 92128.
- Vice-Chairman: T. S. Hawk, Baker Engineers, Coraopolis, PA 15108.
- Secretary: C. H. McElroy, Soil Conservation Service, Fort Worth, TX 76115.
- Membership Secretary: J. F. Christiansen, Empire Soils Investigations, Inc., 140 Telegraph Rd., Middleport, NY 14105.

Subcommittees and Their Chairmen

TECHNICAL

- D18.01 Surface and Subsurface Reconnaissance
- C. B. Petterson
- D18.02 Sampling and Related Field Testing for Soil Investigations
- J. Horton
- D18.03 Texture, Plasticity, and Density Characteristics of Soils
- T. S. Hawk
- D18.04 Hydrologic Properties of Soil and Rock
- D. E. Daniel
- 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. K. Howard
- D18.08 Special and Construction Control Tests
- K. R. Rademacher
- D18.09 Dynamic Properties of Soils
- R. J. 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
- W. S. Adaska

- D18.16 Chemical Grouting
- R. H. Karol
- D18.17 Rock for Erosion Control
- C. H. McElroy
- D18.18 Peats and Organic Soils
- T. B. Edil
- D18.19 Frozen Soil and Rock C. W. Lovell
- D18.20 Impermeable Barriers
- N. J. Cavalli
- D18.21 Ground Water Monitoring
- D. M. Nielsen

ADMINISTRATIVE

D18.91 Editorial G. N. Durham D18.92 Geotechnical Testing Journal P. Knodel D18.93 Terminology for Soil, Rock, and Contained Fluids 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 H. F. Hanson D18.97 Awards R. G. Packard D18.98 Hogentogler Award R. J. Stephenson D18.99 Quality Control P. A. Spellerberg