Committee D-18 News

D-18 Forms Section on Thermal Properties of Rock

Within ASTM Subcommittee D18.12 on Rock Mechanics there is a new section, D18.12.07 on Thermal Properties of Rock. D18.12 chairman Howard Pincus notes that the organization of this new group is an outcome of the work that D-18 on Soil and Rock has done for a contract with the Nuclear Regulatory Commission (NRC). Previously, there was no separate section on the subject. The section will develop standards for thermal properties of rock and contribute to work on documents for mechanical or other properties of rock in which temperature is a variable. Another contract has been signed with NRC for the development of standards, which is also a concern of the new group. Participation is encouraged from all interested parties, particularly those who have made measurements of thermal properties of other inorganic solids. Those wishing more information should contact D18.12.07 chairman Michael Feves, Foundation Sciences, 1630 SW Morrison, Portland, OR 97205 (503/224-4435), or D18.12 chairman Howard Pincus, Dept. of Geological Sciences, University of Wisconsin—Milwaukee, Milwaukee, WI 53201 (414/262-4561).

Officers Elected for International Organization

A. Ivan Johnson, a consulting engineer from the Denver, Colorado area, was elected President of the International Committee on Remote Sensing and Data Transmission for Hydrology for the period 1984 to 1987. The election took place on 18 Aug. 1983 at Hamburg, Federal Republic of Germany during the XVIII General Assembly of the International Association of Hydrological Sciences (IAHS). Having the objectives of promoting, communicating, and coordinating the applications of remote sensing and remote data transmission to hydrologic studies and problems throughout the world, the Committee has around 60 members from about 30 countries.

In addition to President Johnson, other officers include: First Vice-President Tom Andersen of Oslo, Norway; Second Vice-President Gert A. Schultz of Bochum, FRG; Third Vice-President Serge Pleyns of Paris, France; Secretary Barry E. Goodison of Downsview, Ontario, Canada; Chairman of Remote Sensing Division J. W. Trevett of London, England; and Chairman of Data Transmission Division Richard W. Paulson of Reston, VA. The Committee sponsored a six-day International Symposium on Hydrological Applications of Remote Sensing and Remote Data Transmission during 18–25 Aug. 1983 in Hamburg, FRG. President Johnson was Chairman of the Symposium and Dr. F. Gunneberg of Koblenz, FRG was Cochairman.

Johnson, who became active in the IAHS in 1963, has served four-year terms in the positions of Secretary and President of the IAHS International Commission on Ground Water and as First Vice-President of IAHS as a whole. He has been convenor or co-convenor of many IAHS symposia and editor of a number of their technical publications. Since retiring in 1979, following 31 years with the U.S. Geological Survey, Johnson has been serving as a consultant to Woodward-Clyde Consultants.

Sponsorship of workshops and symposia are already planned by the International Committee on Remote Sensing and Data Transmission for Hydrology for the next four years. Additional information concerning past and future activities of the committee may be obtained by contacting A. Ivan Johnson, President, ICRSDT, Woodward-Clyde Consultants, Harlequin Plaza-North, 7600 East Orchard Road, Englewood, CO 80111 (Phone: 303/694-2770).

West Virginia University Offers Courses

The Department of Mining Engineering, College of Mineral and Energy Resources, West Virginia University has scheduled a series of short courses for 1984. The courses are as follows:

- 3rd Longwall Mining, 18–15 Aug. 1984
- 2nd Surface Subsidence Engineering, 16–17 Aug. 1984
- Professional Engineers Exam Review in Mining/Mineral Engineering, 17–21 Sept. 1984

All short courses will be held at Sheraton Lakeview Resort and Conference Center near Morgantown, WV. For detailed information please call Alice Kerns or Syd S. Peng at (304) 293-5695 or write to Department of Mining Engineering, West Virginia University, P.O. Box 6070, Morgantown, WV 26506-6070.
SI Conversion Factors for Geotechnical Engineering

During the past several years, Subcommittee D18.93, through the initiative of Marshall Silver, has developed a table of factors for converting U.S. customary and metric units into SI units. The objective is to assist authors in converting their results into SI units and to promote uniformity in the use of SI units in geotechnical engineering. Additional information on the SI system can be obtained from ASTM Metric Practice Guide (E 380) and "SI Units in Geotechnical Engineering," by R. D. Holtz in the *Geotechnical Testing Journal*, Vol. 3, No. 2, June 1980, pp. 73-79. Comments from the profession are invited as letters either to the editor for publication in the journal or to Subcommittee D18.93 for its consideration.

Ernest T. Selig
Technical Editor

### Conversion Table

<table>
<thead>
<tr>
<th>From Unit</th>
<th>To Unit</th>
<th>Convert By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td></td>
<td></td>
</tr>
<tr>
<td>inches (in.)</td>
<td>millimetres (mm)</td>
<td>25.4</td>
</tr>
<tr>
<td>inches (in.)</td>
<td>metres (m)</td>
<td>0.0254</td>
</tr>
<tr>
<td>feet (ft)</td>
<td>metres (m)</td>
<td>0.305</td>
</tr>
<tr>
<td>miles (mi)</td>
<td>kilometres (km)</td>
<td>1.61</td>
</tr>
<tr>
<td>yards (yd)</td>
<td>metres (m)</td>
<td>0.914</td>
</tr>
<tr>
<td>square inches (in.²)</td>
<td>square centimetres (cm²)</td>
<td>6.45</td>
</tr>
<tr>
<td>square feet (ft²)</td>
<td>square metres (m²)</td>
<td>0.0929</td>
</tr>
<tr>
<td>square yards (yd²)</td>
<td>square metres (m²)</td>
<td>0.836</td>
</tr>
<tr>
<td>acres (acre)</td>
<td>square metres (m²)</td>
<td>4047</td>
</tr>
<tr>
<td>square miles (mi²)</td>
<td>square kilometres (km²)</td>
<td>2.59</td>
</tr>
<tr>
<td>Volume</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cubic inches (in.³)</td>
<td>cubic centimetres (cm³)</td>
<td>16.4</td>
</tr>
<tr>
<td>cubic feet (ft³)</td>
<td>cubic metres (m³)</td>
<td>0.0283</td>
</tr>
<tr>
<td>cubic yards (yd³)</td>
<td>cubic metres (m³)</td>
<td>0.765</td>
</tr>
<tr>
<td>Mass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pounds (lb)</td>
<td>kilograms (kg)</td>
<td>0.454</td>
</tr>
<tr>
<td>tons (ton)</td>
<td>kilograms (kg)</td>
<td>907</td>
</tr>
<tr>
<td>one pound force (lbf)</td>
<td>newtons (N)</td>
<td>4.45</td>
</tr>
<tr>
<td>one kilogram force (kgf)</td>
<td>newtons (N)</td>
<td>9.81</td>
</tr>
<tr>
<td>Force</td>
<td></td>
<td></td>
</tr>
<tr>
<td>kilopascals (kPa)</td>
<td>kilopascals (kPa)</td>
<td>0.0479</td>
</tr>
<tr>
<td>Pressure or Stress</td>
<td>kilopascals (kPa)</td>
<td>6.89</td>
</tr>
<tr>
<td></td>
<td>kilopascals (kPa)</td>
<td>98.1</td>
</tr>
<tr>
<td>Liquid Measure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>gallon (gal)</td>
<td>cubic metres (m³)</td>
<td>0.0038</td>
</tr>
<tr>
<td>acre-feet (acre-ft)</td>
<td>cubic metres (m³)</td>
<td>1233</td>
</tr>
<tr>
<td>Quantity of Flow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>gallons per minute (gal/min)</td>
<td>cubic metres per minute (m³/min)</td>
<td>0.0038</td>
</tr>
<tr>
<td>cubic feet per minute (ft³/min)</td>
<td>cubic metres per minute (m³/min)</td>
<td>0.0283</td>
</tr>
<tr>
<td>Mass Density</td>
<td></td>
<td></td>
</tr>
<tr>
<td>megagrams per cubic metre (Mg/m³)</td>
<td>megagrams per cubic metre (Mg/m³)</td>
<td>0.0160</td>
</tr>
<tr>
<td></td>
<td>megagrams per cubic metre (Mg/m³)</td>
<td>0.102</td>
</tr>
<tr>
<td>Temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>°F = 1.8 Temp °C + 32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>°C = (Temp °F - 32)/1.8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**MOVING?**

To insure uninterrupted service on your *JTE* subscription, please notify us at least six weeks before you move.

1. Attach your address label from a recent issue in the space provided opposite. (If label is not available, be sure to give your old address, including Zip Code.)

2. Print your name, membership no., and address below. (Be sure to include Zip Code.)

3. Mail entire notice to: ASTM  
   *Journal of Testing and Evaluation*  
   P.O. Box 64106  
   Baltimore, MD 21264

<table>
<thead>
<tr>
<th>Name</th>
<th>Membership No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Address</td>
<td></td>
</tr>
<tr>
<td>City</td>
<td>State</td>
</tr>
</tbody>
</table>

*(please print or type the above information)*
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: Adrian Palmer, U.S. Agricultural Forest Service, Engineering Div., P.O. Box 2417, Washington, DC 20013.
First Vice-Chairman: Robert C. Deen, University of Kentucky, Kentucky Transportation Research Program, Transportation Research Bldg., Lexington, KY 40506.
Third Vice-Chairman: W. G. Shockley, 326 Lake Hill Dr., Vicksburg, MS 39180.
Secretary: D. A. Tiedemann, U.S. Bureau of Reclamation, DFC, P.O. Box 25007, D1543, Denver, CO 80225.
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
C. P. Fisher, Jr.
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
R. T. Donaghe
D18.06 Physico-Chemical Properties of Soils and Rocks
G. R. Olhoeft
D18.07 Identification and Classification of Soils
C. W. Britzius
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
G. V. Belardi
D18.11 Deep Foundations
F. M. Fuller
D18.12 Rock Mechanics
H. J. Pincus
D18.13 Marine Geotechnics
R. C. Chang
D18.14 Geotechnics of Waste Management
D. E. Clark
D18.15 Stabilization by Additives
M. C. Anday
D18.15 Chemical Grouting
R. H. Karol
D18.17 Rock for Erosion Control
K. L. Saucier
D18.18 Peats and Organic Soils
P. M. Jarrett
D18.19 Geotextiles and Their Applications
B. Christopher
D18.20 Impermeable Barriers
A. I. Johnson

ADMINISTRATIVE

D18.19 Editorial
R. C. Deen
D18.20 Papers
E. T. Selig
D18.33 Nomenclature for Soil and Rock Mechanics
A. I. Johnson
D18.44 Education and Training
N. O. Schmidt
D18.45 Information Retrieval and Data Automation
Carl D. Tockstein
D18.46 Research Steering and Standards Development
W. G. Shockley
D18.47 Special Awards
R. G. Packard
D18.48 Hegenthofer Award
R. E. Gray
D18.49 Quality Control
L. F. Kaufman