

TESTING FORUM

ASTM D-18 News

Worldwide Survey Collects Information on Artificial Recharge of Ground Water

A Task Committee on Guidelines for Artificial Recharge of Ground Water, organized under the American Society of Civil Engineers (ASCE), developed a questionnaire for a world-wide survey on artificial recharge. The questionnaire requests information on artificial recharge research, operating projects, results of practice, available publications, and contact personnel. The ASCE Task Committee proposes to present the information in an ASCE publication and eventually develop a Manual of Standard Guidelines for Artificial Recharge Projects. At present several 100 responses have been received from 34 foreign countries and 48 states of the United States. Although there has been this good response, the questionnaire is still available to anyone willing to provide information on their experience or even to indicate that recharge is planned or nonexistent in the country or state. It is planned that the questionnaires and statistical summaries of the information will be published.

The Task Committee's 30 members represent specialists from eight foreign countries and twelve states of the United States. Universities, private industry, and state and national government agencies are represented by the membership.

The Task Committee also is organizing an International Symposium on Artificial Recharge (ISAR), which will be held at Anaheim, CA, during 23-27 Aug. 1988. The symposium papers will be published, and the information provided therein will be used along with questionnaire responses to prepare the proposed Manual of Standard Guidelines.

Anyone interested in receiving the artificial recharge questionnaire or information on the symposium should contact Ivan Johnson, Chairman, ISAR Organizing Committee, 7474 Upham Court, Arvada, CO 80003, USA (Phone: 303/425-5610).

IAHS Changes Deadlines for Computer Workshops

Scientists who have developed computer programs in the broad field of the hydrologic sciences are invited to offer papers for the personal computer workshops that are scheduled as part of the International Association of Hydrological Sciences (IAHS) Third Scientific Assembly (ITSA). Because plans no longer call for prepublication of the computer programs, the deadline for workshop offers has been extended to 1 Dec. 1988. The computer workshop portion of the ITSA program is scheduled for 15-19 May 1989, in Baltimore, MD. After a poster-style presentation and personal computer demonstration of each program by each author, workshop attendees will be given opportunity for hands-on practice. Among the proposed workshop subjects of special interest to the geotechnical sciences are Image Processing and Geographic Information Systems, and Ground Water Quantity and Quality Analyses. Dennis Lettenmaier (University of Washington, Seattle, WA), James Wallis (IBM Research Center, Yorktown Heights, NY), Robert Ragan (University of Maryland, College Park, MD), and Paul Van Der Heijde, (Butler University, Indianapolis, IN) are organizing

the workshops. More details concerning the Third Scientific Assembly, its eight symposia, and these workshops can be requested from A. Ivan Johnson (see address below).

Abstracts of 600 to 800 words (not more than two single-spaced typewritten pages) are requested. The abstract should describe the program and its application(s) and must include the name, affiliation, and mailing address of the author(s) and an indication of the computer workshop title for which the program is being offered. All abstracts or requests for more information should be sent to Ivan Johnson, Chairman, ITSA Organizing Committee, A. Ivan Johnson, Inc., 7474 Upham Court, Arvada, CO 80003, USA (Telephone: 303/425-5610).

New Publication on Geotechnical Applications of Remote Sensing and Remote Data Transmission

An International Symposium on Geotechnical Applications of Remote Sensing and Remote Data Transmission resulted in publication of ASTM Special Technical Publication (STP) 967, *Geotechnical Applications of Remote Sensing and Remote Data Transmission*. Sponsored by the American Society of Testing and Materials (ASTM) Committee D-18 on Soil and Rock, and the International Committee on Remote Sensing and Data Transmission (ICRSDT) of the International Association of Hydrological Sciences, co-editors for the STP are Ivan Johnson of A. Ivan Johnson, Inc., Arvada, CO, and Bernt Pettersson of Brown and Root, Inc., Houston, TX. Johnson is Past President of ICRSDT and Pettersson is Chairman of ASTM D-18 Subcommittee D18.01 on Surface and Subsurface Reconnaissance.

The purpose of the symposium and its proceedings was to develop information that could be used to prepare guidelines for the use of remote sensing techniques and of satellite and meteor burst instrumentation for remote data transmission for a variety of projects involving geotechnical science and engineering. The program discussed advantages and disadvantages of a variety of remote sensing (RS) and remote data transmission (RDT) techniques, equipment and programs related to soil mechanics, rock mechanics, geologic engineering, ground-water and flood hydrology, and other scientific input to geotechnical projects. Authors were from Australia, Canada, China, and England, as well as from the United States.

Geomechanics in Tropical Soils

The Second International Conference on Geomechanics in Tropical Soils will be held 12-14 Dec. 1988 at Singapore. Prof. G. E. Blight of the University of Watersrand, South Africa, will deliver the keynote address on Construction in Tropical Soils, and Dr. P. R. Vaughan of the Imperial College of Science and Technology, United Kingdom, will also deliver a keynote address on Engineering Properties of Tropical Soils.

Seventy-eight abstracts of papers from 22 countries (Australia, Brasil, China, Egypt, Ghana, Hong Kong, Indonesia, India, Jordan, Japan, Kenya, Mozambique, New Zealand, Nigeria, Portugal, Singapore, Taiwan, The Netherlands, Thailand, United Kingdom, Venezuela, and Switzerland) were accepted.

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The Conference Hotel is the Mandarin, Orchard Road, Singapore. Other Conference events include, spouse program and post conference tours to Kuala Lumpur and Jakarta. Details are available from the Conference Secretariat. (150 Orchard Road # 07-14, Orchard Plaza, Singapore 0923. Telephone: 7332922; Telex: RS 35377; Fax: 3448869). Early registrations are encouraged.

Future D-18 Committee Meetings and Approved Symposia

Oct. 1988

Separate Symposium at AEG Meeting, Kansas City, MO

D18.01 w/others: Remote Sensing for Geotechnical Engineering

Meeting: 22-27 Jan. 1989

Walt Disney World Hilton, Orlando FL

D18.13 Symposium on Geotechnical Aspects of Ocean Waste Disposal (2 days)

Meeting: 25-29 June 1989

St. Louis, MO

D18.06 Symposium on Physico-Chemical Aspects of Soil, Rock, and Related Materials

D18.01 Symposium on Geophysical Methods for Geotechnical Investigations

Meeting: 21-26 Jan. 1990

Las Vegas, NV

D18.11 Symposium on Design & Testing of Rock and Soil Anchors

Meeting: June 1990

San Francisco, CA

D18.14 Symposium on Geotechnical Behavior and Properties of Waste Materials

Other Meetings of Interest

Dec. 1988

New Delhi, INDIA

International Symposium on Mining Subsidence (ISSMFE)

10-19 May 1989

Baltimore, MD

IAHS 3rd Scientific Assembly (includes International Symposia on (1) Ground Water Contamination and (2) Remote Sensing)

15-19 Jan. 1990

Washington, DC

69th Annual Meeting of TRB

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.

V. P. Drnevich
Technical Editor

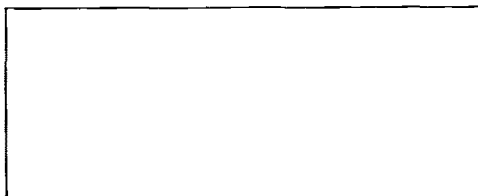
To Convert From	To	Multiply By
Length		
inches (in.)	millimetres (mm)	25.4
inches (in.)	metres (m)	0.0254
feet (ft)	metres (m)	0.305
miles (miles)	kilometres (km)	1.61
yards (yd)	metres (m)	0.914
Area		
square inches (in. ²)	square centimetres (cm ²)	6.45
square feet (ft ²)	square metres (m ²)	0.0929
square yards (yd ²)	square metres (m ²)	0.836
acres (acre)	square metres (m ²)	4047
square miles (miles ²)	square kilometres (km ²)	2.59
Volume		
cubic inches (in. ³)	cubic centimetres (cm ³)	16.4
cubic feet (ft ³)	cubic metres (m ³)	0.0283
cubic yards (yd ³)	cubic metres (m ³)	0.765
Mass		
pounds (lb)	kilograms (kg)	0.454
tons (ton)	kilograms (kg)	907
Force		
one pound force (lbf)	newtons (N)	4.45
one kilogram force (kgf)	newtons (N)	9.81
Pressure or Stress		
pounds per square foot (psf)	kilonewtons per square metre (kN/m ²) or kilopascals (kPa)	0.0479
pounds per square inch (psi)	kilonewtons per square metre (kN/m ²) or kilopascals (kPa)	6.89
kilogram force per square centimetre (kgf/cm ²)	kilonewtons per square metre (kN/m ²) or kilopascals (kPa)	98.1
Liquid Measure		
gallon (gal)	cubic metres (m ³)	0.0038
acre-feet (acre-ft)	cubic metres (m ³)	1233
Quantity of Flow		
gallons per minute (gal/min)	cubic metres per minute (m ³ /min)	0.0038
cubic feet per minute (ft ³ /min)	cubic metres per minute (m ³ /min)	0.0283
Mass Density		
pounds per cubic foot (pcf)	megagrams per cubic metre (Mg/m ³)	0.0160
kilonewtons per cubic metre (kN/m ³)	megagrams per cubic metre (Mg/m ³)	0.102

$$\begin{aligned}\text{°F} &= 1.8 \text{ Temp } \text{°C} + 32 \\ \text{°C} &= (\text{Temp } \text{°F} - 32)/1.8\end{aligned}$$

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