

TESTING FORUM

ASTM Committee on Soil and Rock Forms New Task Group on Navigation Dredging

ASTM standards-writing Committee D-18 on Soil and Rock has formed a new section on Navigation Dredging. The group met in conjunction with the U.S. Army Corps of Engineers National Dredging Meeting on 20 May 1993 at the Holiday Inn-Crowne Plaza at the Metro Center in Washington, DC, and will meet again on 22 June 1993, in conjunction with the standards development meetings of Committee D-18 in Atlanta, GA.

The Corps of Engineers and the dredging community are in need of an authoritative, complete, and concise standard document that defines terms commonly used in the dredging business. The new section will initially focus on developing a standard guide for dredging terms. It will benefit Corps dredging personnel, the dredging industry, and the general public by creating a single source for this information.

All interested parties are welcome to attend these meetings, and membership in ASTM is not necessary. For more information, contact Thomas M. Verna, U.S. Army Corps of Engineers, Attn: CECW-OD, 20 Massachusetts Avenue NW, Washington, DC 20314-1000, (telephone) 202/272-8842, (fax) 202/272-1685; or John Vowell, ASTM, 1916 Race Street, Philadelphia, PA 19103-1887, (telephone) 215/299-5496.

Call for Papers

Symposium on Dredging, Remediation, and Containment of Contaminated Sediments

Papers are invited for a Symposium on Dredging, Remediation, and Containment of Contaminated Sediments sponsored by ASTM Committee D-18 on Soil and Rock and its Subcommittee on Marine and Freshwater Geotechnics. The symposium will be held 23-24 June 1994 in Montreal, Quebec, Canada in conjunction with the 19-24 June 1994 standards development meetings of Committee D-18.

Original papers for both marine and freshwater applications are sought in the following main categories listed below but are not limited to these specific areas:

1. Site Investigations
 - 1.1 Sediment Sampling Methods, Strategies and Characterization of Contamination
 - 1.2 Geophysical Methods
 - 1.3 In Situ Pollution Sensors
 - 1.4 Fate of Contaminants in Sediments
2. Excavation, Transport and Handling
 - 2.1 Surface Sediment Layer Removal
 - 2.2 Dewatering
 - 2.3 Site Preparation
3. Restoration/Remediation Methods
 - 3.1 "No-Action" Alternative
 - 3.2 In-situ Techniques
 - 3.2.1 Liquid-solids Separation
 - 3.2.2 Solidification and Other Procedures

4. Containment and Isolation Technologies

- 4.1 In situ Barriers
 - 4.1.1 Slurry Walls
 - 4.1.2 Submarine Caps and Linear Systems
 - 4.1.3 Sheetpile Barriers
- 4.2 Confined Disposal
 - 4.2.1 Landfills and Waste Piles
- 4.3 Cap Design and Installation
 - 4.3.1 Soft Sediments
 - 4.3.2 Stiff/Solidified Sediments

5. Monitoring Technologies

- 5.1 Porefluid and Effluent Sampling
- 5.2 Downhole and Crosshole Methods

The primary goal of the symposium is to identify both established and innovative tests and methods used to characterize the properties and behavior of contaminated aquatic sediments and potential contaminant transfer properties and which are candidates for standardization. A secondary goal is to provide a forum for discussion of past practices and future directions including the effects of regulations and economics.

Prospective authors are requested to submit a title, a 250-300 word abstract, and the ASTM Paper Submittal Form below by **July 23, 1993** to Dorothy Savini, Symposia Operations, ASTM, 1916 Race Street, Philadelphia, PA 19103-1187, Telephone: 215/299-5413. Authors are urged not to send abstracts by fax because often the copies do not reproduce clearly. Additional Paper Submittal Forms are available from Ms. Savini or from the symposium chairmen.

Authors will be notified of their papers' acceptance for presentation by 15 Sept. 1993 by the symposium chairman. ASTM may print and distribute abstracts with the approval of the symposium chairmen.

A Special Technical Publication (STP) based on the symposium proceedings is anticipated by ASTM. Papers presented at the symposium will be included in the STP if they are approved through the ASTM peer review process. Main authors will receive a complimentary copy of the volume(s) containing their papers. The main author is defined as the author corresponding with the ASTM publications staff. All published authors may purchase reprints of the papers at a nominal cost.

Final manuscripts for the STP based on this symposium are due by **March 23, 1994**. This deadline will be rigidly enforced. Papers received after this deadline may not be included in the STP and may be forwarded to an appropriate ASTM journal to be considered for publication.

More information is available from Symposium Chairmen Kenneth R. Demars, Civil Engineering Department, University of Connecticut, Storrs, CT 06269-3097, 203/486-2339, FAX: 203/486-2298; Gregory N. Richardson, Hazen and Sawyer, 4011 West Chase Road, Raleigh, NC 27607, 919/833-7152, FAX: 919/833-1828; Ronald C. Chaney, Environmental Resources Engineering, Humboldt State University, Arcata, CA 95521, 707/826-4992, FAX: 707/677-3048; and Raymond N. Yong, Geotechnical Research Centre, McGill University, 817 Sherbrooke St. W.,

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Montreal, Quebec, Canada H3A 2K6, 514/398-6672, FAX: 514/398-7361.

ASTM To Sponsor June Symposium on Analysis of Soils Contaminated with Petroleum Constituents

A Symposium on Analysis of Soils Contaminated with Petroleum Constituents will be held 24 June 1993 at the Hyatt Regency Atlanta, in Atlanta, GA. The symposium is being sponsored by ASTM standards-writing Committee D-18 and its Subcommittee D18.06 on Physico-Chemical Properties of Soil, in cooperation with The American Petroleum Institute (API).

The symposium will provide an opportunity to examine the existing technology used by scientists and engineers to measure and evaluate soil material which has become contaminated with organic derivatives of petroleum hydrocarbons or unrefined petroleum.

There is no fee to attend the symposium and membership in ASTM is not required. The symposium will be held in conjunction with the 20–23 June 1993 standards development meetings of Committee D-18 on Soil and Rock.

For more information, contact Symposium Chairman Tracey O'Shay, Gordon and Lawton, P.O. Box 80072, Austin, Texas 78727-0072, 512/475-2302; Symposium Co-Chairman Keith Hoddinott, U.S. Army Environmental Hygiene Agency, ATTN: HSHB-ME-SR, Aberdeen Proving Grounds, Maryland 21010-5422, 301/671-2953; or Robert Morgan, ASTM, 1916 Race Street, Philadelphia, PA 19103-1187, 215/299-5505.

The program for the Symposium follows:

Thursday, June 24, 1993

8:30 a.m.

Opening Remarks—T. O'Shay, Symposium Chairman

SESSION I: ANALYTICAL PROCEDURES FOR ANALYSIS OF SOILS CONTAMINATED WITH PETROLEUM HYDROCARBON

Session Chairman: K. Hoddinot, Symposium Co-Chairman

8:35 a.m.

Cone Penetration Testing with Pore Pressure and Electrical Conductivity Measurements: A Method for Delineation of Creosote Contamination in Saturated Layered Soils—C. N. Okoye, T. R. Cotton, D. E. O'Meara, Dames & Moore, Cranford, NJ

9:00 a.m.

Real Time, In Situ Analysis of Petroleum Contaminated Soils: Integrating Environmental Controls on Sensor Response—A. E. Apitz, S. H. Lieberman, and L. M. Borbridge, NCCOSC, San Diego, CA

9:25 a.m.

An Improved Procedure for Determining Oil Content in Water-Saturated Soil Samples—P. Y. Yeung, R. L. Johnson, S. N. Acharya, Alberta Environmental Centre, Alberta, Canada

9:50 a.m. BREAK

10:15 a.m.

Fuel Isolation, Identification and Quantification from Soil—A. M. Illias, U.S. Army Corps of Engineers, North Pacific Division, Troutdale, OR

10:40 a.m.

The Use of Supercritical Fluid Extraction as a Sample Preparation Technique for Soils—J. M. Levy, L. Dolata, A. Rosselli, R. Ravey, Superex Corporation, Pittsburgh, PA

11:05 a.m.

Analysis of Volatile Petroleum Hydrocarbons on Water and Soil, Using Purge and Trap Techniques—S. A. Hazard, J. L. Brown, and W. R. Betz, Supleco, Inc., Belefonte, PA

11:30 a.m.

A Tiered Analytical Protocol for the Characterization of Heavy Oil Residue at Petroleum-Contaminated Hazardous Waste Sites—S. J. T. Pollard, S. I. Kenefick, and S. E. Hurdey, University of Alberta, Edmonton, Alberta, Canada

11:55 a.m. LUNCH (on your own)

1:30 p.m.

Interlaboratory Study of Analytical Methods for Petroleum Hydrocarbons—J. L. Parr, Enseco, Incorporated, Arvada, CO; R. Claff, American Petroleum Institute, Washington DC; J. Lowry, ERA, Arvado, CO; D. Kocurek, Tischler/Kocurek, Round Rock, TX

1:55 p.m.

Critical Review of Analytical Techniques Applicable to Petroleum-Contaminated Soils—C. Y. Fan, S. Krishnamurthy, C. T. Chen, U.S. EPA, Edison, NJ

SESSION II: BEHAVIOR OF HYDROCARBON CONTAMINATED SOILS

Session Chairman: B. Bauman, American Petroleum Institute Washington, DC

2:25 p.m.

Geotechnical Properties of Crude Oil Contaminated Sands—V. K. Puri, B. M. Das, E. E. Cook, and E. C. Shin, Southern Illinois University, Carbondale, IL

2:50 p.m. BREAK

3:15 p.m.

Analysis of Interaction of Foundations with Soils Contaminated with Petroleum Constituents—A. Z. Zhusupbekov, T. Akuov,

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and N. Subchanberdin, Temirtau Technical University, Temirtau, Kazakhstan, CIS

3:40 p.m.

Retention and Transport of Refinery Residual Petroleum in Soil—R. N. Yong, L. Mohammed, and A. M. O. Mohamed, McGill University, Montreal, Canada

4:05 p.m.

Identification and Classification of Contaminated Soils—N. J. Meegoda and P. Ratnaweera, New Jersey Institute of Technology, Orange, NJ

4:40 p.m.

Compacting Characteristics of Petroleum Contaminated Soils—Reuse as Sub-Base Material—N. J. Meegoda, New Jersey Institute of Technology, Orange, NJ

5:05 p.m.

Closing Remarks—T. O'Shay, Symposium Chairman

5:10 p.m. SYMPOSIUM ADJOURNS

ASTM Training Course to Focus on Marine Fuels

Marine Fuels: Specifications, Testing, Purchase, and Use, a standards technology training course sponsored by ASTM, focuses on how the properties of marine fuels affect fuel handling, combustion, and cost. Topics include methods of manufacture and blending of various grades; effects of crude source and manufacturing on fuel properties; commercial practices in purchase and delivery; standard specifications used in purchases; storage, handling, and pretreatment equipment and practices; and operation and functioning of boilers and engines that operate on marine fuel. The course will feature an inspection tour of a shipboard fuel system or a marine fuel laboratory. It is intended for laboratory supervisors, shipping company employees, and anyone dealing with the sale, purchase, trading, or use of marine fuels who needs to obtain a detailed understanding of fuel quality requirements and why they are necessary for good handling and combustion performance.

This year the course was held on 27–29 April in Philadelphia, PA and will be held again on 16–18 Nov. 1993 in Newark, NJ. The fee to attend the course is \$665.00. This includes all standards and manuals referenced, course notes, transportation to and from the demonstration tours, and lunch and coffee breaks.

To register or to obtain a free brochure, including registration and hotel information, contact Kathy Dickinson at 215/299-5480 or fax: 215/299-5470.

Erratum

Please take note of the following change to the paper entitled "Modified Bromhead Ring Shear Apparatus" by Timothy D.

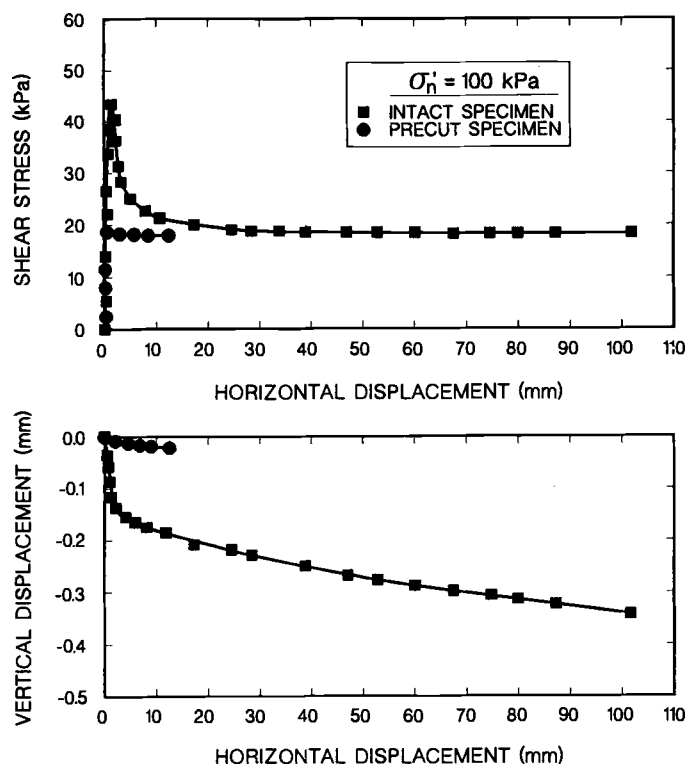


FIG. 10—Drained ring shear test results for Santiago claystone at an effective normal stress of 100 kPa.

Stark and Hisham T. Eid that appeared in the March 1993 issue of *Geotechnical Testing Journal*. The shear stress axis was incorrectly labeled in Figure 10; the corrected figure is shown above.

Richard S. Ladd Elected to ASTM Board of Directors

Richard S. Ladd, vice-president of Woodward-Clyde Consultants (WCC) in Edgewater, Florida, has been elected to a three-year term on the ASTM Board of Directors, effective 1 Jan. 1993.

He received a B.S. degree from Northeastern University and a master's degree from the Massachusetts Institute of Technology (MIT), both degrees in civil engineering.

Ladd worked at MIT as a research engineer until 1966 when he joined Woodward-Clyde Consultants. His main career focus has been in the area of laboratory testing of soil and rock and characterization of soil properties. He supervises the geotechnical laboratory practice and its integration into WCC's engineering practice.

Ladd, chairman of ASTM Committee D-18 on Soil and Rock,

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has been active in D-18 since 1971, serving as vice-chairman and membership secretary before his appointment as chairman in 1990. He has also served as chairman and vice-chairman of three D-18 subcommittees. Ladd has served on ASTM's Committee on Standards from 1991 to 1992 and on the 1991 Nominating

Committee. He has co-authored over 15 technical papers, many of them appearing in ASTM publication.

In addition to ASTM, he is involved with the American Society of Civil Engineers and the International Society for Soil Mechanics and Foundation Engineering.