Purpose and Scope

The purpose of the Geotechnical Testing Journal is (1) to provide a high-quality publication that informs the profession of new developments in soil and rock testing and related fields; (2) to provide a forum for the exchange of information, particularly that which leads to the development of new test procedures; and (3) to stimulate active participation of the profession in the work of ASTM Committee D-18 on Soil and Rock and related committees.

Contributions include papers, technical notes, letters to the editor, discussions of previously published papers, and book reviews. The editorial scope of this journal covers test methods for soil and rock, sampling, nomenclature, and practices relating to the determination of properties and behavior of soil and rock for engineering purposes, and for soil as a medium for plant growth. Topics of interest include: new testing equipment, apparatus, and procedures for both field and laboratory applications; evaluation of existing ASTM standards and recommendations for new standards for apparatus or test procedures; and test results that give insights into test procedures, techniques, and data interpretation. Topics must be related to soil and rock, but may include use and testing of geosynthetic materials in conjunction with soil and rock, highway materials testing such as aggregate properties or pavement performance measurement, geophysical exploration, marine sediments, groundwater investigations, testing and stabilization of contaminated soils, and soil and rock engineering related to waste management.

EDITORS:

Dr. Marcel Arnould
Centre de Géologie de l’ingénieur
Ecole des Mines de Paris
60, boulevard Saint-Michel, F-75272
Paris Cedex 06, France

Dr. Gualterio Baldi
I.S.M.E.S.
Viale Giulio Cesare 29
24100 Bergamo, Italy

Dr. Nicholas R. Barton
Norwegian Geotechnical Institute
P. O. Box 3930
Ulveaav Hageby
N-0806 Oslo, Norway

Dr. Matthew R. Coop
Department of Civil Engineering
City University School of Engineering
Geotechnical Engineering Research Centre
Northampton Square
London EC1V 0HB, England

Dr. Victor P. B. De Mello
Rua Das Madressilvas
43-CP8 047/04-070
Sao Paulo, Brasil

Dr. Vincent P. Drenovich
Dept. of Civil Engineering
Purdue University
West Lafayette, IN 47907

Dr. Stephen W. Forster
Federal Highway Administration
6500 Georgetown Pike
McLean, VA 22101

Dr. Richard J. Fragaszy
Consulting Geotechnical Engineer
1091 Summit Circle
Watkinsville, GA 30677-2022

Dr. John T. Germaine
Civil Engineering Department
Massachusetts Institute of Technology
Cambridge, MA 02139

Dr. Charles J. Haas
Department of Mining Engineering
University of Missouri—Rolla
Rolla, MO 65401

Mr. Paul Knodel, Past Technical Editor
50 Ammons Street
Lakewood, CO 80226

Dr. Paul V. Lade
Dept. of Civil Engineering
The Johns Hopkins University
Baltimore, MD 21218-2686

Dr. Michael Langer
Federal Institute for Geosciences and Natural Resources
Bundesanstalt für Geowissenschaften und Rohstoffe
P.O. Box 510153
Hannover 30615, Federal Republic of Germany

Ing. Amaro A. Bello Maldonado
Rancho Seco #23
Col. Santa Cecilia
04930 Coyoacan, D.F., Mexico

Dr. W. Allen Marr
Geocomp Corp.
65 Commonwealth Ave.
Concord, MA 01742

Dr. Paul W. Mayne
Georgia Institute of Technology
School of Civil Engineering
Atlanta, GA 30332

Dr. Ricardo Oliveira
Laboratorio Nacional de Engenharia Civil
Avenida do Brasil 101
1799 Lisboa Codex, Portugal

Dr. Harry G. Poulas
University of Sydney
School of Civil and Mining Engineering
Sydney NSW, 2006 Australia

Dr. G. Venkatappa Rao
Department of Civil Engineering
Indian Institute of Technology, Delhi
Hauz Khas, New Delhi 110016, India

Dr. Ernest T. Seig
University of Massachusetts
Marston Hall 235
Amherst, MA 01003

Professor Wang Sijjing
Institute of Geology
Academia Sinica
P. O. Box 634
Beijing 100029, China

Dr. Vincent Silvestri
Ecole Polytechnique, Montreal Univ.
P.O. Box 6079 A
Montreal, Quebec, Canada H3C 3A7

Mr. L. David Suits, D-35 News Editor
New York State Dept. of Transportation
1220 Washington Avenue
Albany, NY 12232

Dr. Fumio Tatsuoka
University of Tokyo
22-1, Roppongi 7 Chome
Minato-ku, Tokyo 106, Japan

Dr. Dobrosavl Znidaric
Department of Civil, Environmental, and Architectural Engineering
University of Colorado
Boulder, CO 80309-0428
Information for Authors

The original manuscript and four clear copies, including the original illustrations, should be submitted to Kathy Dernoga, Manager, Acquisition and Review, ASTM, 1916 Race St., Philadelphia, PA 19103. Papers are eligible for the following ASTM awards: the C. A. Hogentogler Award (papers on soils for engineering purposes), the Sanford E. Thompson Award (papers on concrete and concrete aggregates), and the Richard L. Templin Award (papers on new and useful testing procedures and apparatus). See “Additional Information for Authors” in the final pages of this issue.

General

This publication is one of many issued by ASTM in connection with its work in promoting knowledge of the properties and performance of materials, products, systems, and services, as well as in developing standard specifications and test measurement techniques to establish their value. Much of the information results from the voluntary contributions of many of the country’s leading technical authorities from industry, scientific agencies, and government. A list of publications and information on the work of ASTM will be furnished on request.

In Appreciation

The high quality of the papers that appear in this publication is a tribute not only to the obvious efforts of the authors represented but to the unheralded, though essential, efforts of their reviewers. It is to the reviewers’ dedication to upholding the high standards of their profession that this note pays tribute. On behalf of ASTM and the authors as well, we acknowledge with appreciation their important contribution to the success of this journal.