PIERO SEMBENELLI MILANO VOL.102 NO.GT4. APRIL 1976 10.315 PROCEEDINGS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS ANERICAN SOCIETY OF CIVIL GINEER

AMERICAN SOCIETY OF CIVIL ENGINEERS

BOARD OF DIRECTION

President Arthur J. Fox, Jr.

Past President William M. Sangster

President-elect Leland J. Walker

Vice Presidents Daniel B. Barge, Jr. John T. Merrifield

Ralph H. Wallace Joseph S. Ward

Directors Philip Abrams Anthony M. DiGioia, Jr. Richard O. Albright R. Gene Ellis Amos J. Alter George F. Flay, Jr. Lyman R. Gillis Robert D. Bay Lynn S. Beedle Albert A. Grant Frederick R. Brown Robert T. Lawson Jose L. Capacete Virgil G. Meedel Archie N. Carter Irvan F. Mendenhall John J. Cusack Edward H. Sokolowski Clarence W. E. Davies Eben Vev John H. Wiedeman

EXECUTIVE OFFICERS

Eugene Zwoyer, Executive Director Don P. Reynolds. Assistant Executive Director Joseph McCabe, Director—Education Services Edmund H. Lang, Director—Professional Services Albert W. Turchick, Director—Technical Services William D. French, Director—Support Services William N. Carey, Secretary Emeritus William H. Wisely, Executive Director Emeritus Robert H. Dodds, Treasurer Michael N. Salgo, Assistant Treasurer COMMITTEE ON PUBLICATIONS

Clarence W. E. Davies, *Chairman* Philip Abrams, *Vice Chairman* Archie N. Carter Virgil G. Meedel John H. Wiedeman

GEOTECHNICAL ENGINEERING DIVISION

Executive Committee Kenneth L. Lee, Chairman Richard E. Gray, Vice Chairman John A. Focht, Jr. George F. Sowers John Lysmer, Secretary Jack W. Hilf, Management Group E Contact Member Publications Committee E. T. Selig, Chairman O. B. Andersland Roberto Lastrico Warren J. Baker Ulrich Luscher

Don Banks Joseph Bowles Ralph Brown J. T. Christian G. W. Clough C. S. Desai J. M. Duncan Herb Einstein L. R. Gebhart D. H. Gray Bobby Hardin I, M. Idriss H. Y. Ko L. M. Kraft R. J. Krizek C. C. Ladd Poul Lade L. J. Langfelder

Ulrich Luscher Gholamreza Mesri Victor Milligan N. Morgenstern Donald J. Murphy Iraj Noorany Ed Nowatzki Adrian Richards Wally Sherman W. G. Shockley M. L. Silver Glen S. Tarbox G. R. Thiers Dave Thompson C. V. G. Vallabhan J. Lawrence Von Thun R. J. Woodward, III S. G. Wright T. H. Wu

R. N. Yong

John Lysmer, Exec. Comm. Contact Member

PUBLICATION SERVICES DEPARTMENT

Paul A. Parisi, Director

Technical Publications

Richard R. Torrens, Editor Robert D. Walker, Associate Editor Geraldine Fahey, Assistant Editor Howard Brenker, Editorial Assistant Patricia A, Goldenberg, Editorial Assistant Paul Andrew Kunkel, Editorial Assistant Donald L. Rigoni, Jr., Editorial Assistant Richard C. Scheblein, Draftsman

Information Services

Irving Amron, Editor

CONTENTS

Identification and Nature of Dispersive Soils by James L. Sherard, Lorn P. Dunnigan, and Rey S. Decker	287
Stress-Strain Behavior of Sand by Vijay K. Khosla and Tien H. Wu	303
Pore-Water Pressure Changes during Soil Liquefaction by H. Bolton Seed, Philippe P. Martin, and John Lysmer	323
Strain Rate Behavior of Compacted Silt by Nikhilesh Roy and Parth Sarathi	347
Pore Pressures near Moving Underwater Slope by Karel L. Meijer and Adriaan G. van Os	361

DISCUSSION

Proc. Paper 12013

Stress-Strain Properties of Compacted Clays, by David E. Daniel and Roy E. Olson (Oct., 1974. Prior Discussion: July, 1975). closure	375
Mica Dam Embankment Stress Analysis, by Nigel A. Skermer (Mar., 1975).	
by Gunter Hardt	376

This Journal is published monthly by the American Society of Civil Engineers. Publications office is at 345 East 47th Street, New York, N.Y. 10017. Address all ASCE correspondence to the Editorial and General Offices at 345 East 47th Street, New York, N.Y. 10017. Allow six weeks for change of address to become effective. Subscription price to members is \$10.00. Nonmember subscriptions available; prices obtainable on request. Second-class postage paid at New York, N.Y. and at additional mailing offices. HY, GT.

The Society is not responsible for any statement made or opinion expressed in its publications.

Soil-Structure Interaction Analyses for Seismic Response, by H. Bolton	
Seed, John Lysmer, and Richard Hwang (May, 1975).	
by Asadour H. Hadjian	380
Dynamic Analysis of the Slide in the Lower San Fernando Dam during	
the Earthquake of February 9, 1971," by H. Bolton Seed, Izzat M.	
Idriss, Kenneth L. Lee, and Faiz I. Makdisi (Sept., 1975).	
by Richard L. Meehan	384

TECHNICAL NOTES

Proc. Paper 12019

Shallow Anchor Resistance to Eccentric Uplift Load	
by Braja M. Das and Gerald R. Seeley	389

INFORMATION RETRIEVAL

The key words, abstract, and reference "cards" for each article in this Journal represent part of the ASCE participation in the EJC information retrieval plan. The retrieval data are placed herein so that each can be cut out, placed on a 3×5 card and given an accession number for the user's file. The accession number is then entered on key word cards so that the user can subsequently match key words to choose the articles he wishes. Details of this program were given in an August, 1962 article in CIVIL ENGINEERING, reprints of which are available on request to ASCE headquarters.

^a Discussion period closed for this paper. Any other discussion received during this discussion period will be published in subsequent Journals.