four barelli

VOL.92 NO.SM3, MAY 1966

## MO FOUNDAT

PROCEEDINGS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS



BITCOLD R ASCE 1966 2-R-16

## CONTENTS

## Papers

| by Bernard B. Gordon and Robert K. Miller  | 1  |
|--|----|
| The Seismic Coefficient in Earth Dam Design by H. Bolton Seed and Geoffrey R. Martin   | 25 |
| Behavior of a Soil Mass Under Dynamic Loading by Robert W. Sparrow and A. Colin Tory   | 59 |
| The state of the s |    |
| DISCUSSION   |    |
| And the second s |    |
| Earthquake Stability of Slopes of Cohesionless Soils,<br>by H. Bolton Seed and Richard E. Goodman. (November,<br>1964. Prior discussion: May, July, September, November,<br>1965. Discussion closed.)  |    |

(over)

Copyright 1966 by the American Society of Civil Engineers

by H. Bolton Seed and Richard E. Goodman (closure) .

Control of Earth and Rockfill for Oroville Dam

This Journal is published bi-monthly by the American Society of Civil Engineers. Publications office is at 2500 South State Street, Ann Arbor, Michigan, 48104. Editorial and General Offices are at 345 East 47th Street, New York, N. Y. 10017. Subscription price is \$8.00 per year with discounts to members and libraries. Second-class postage paid at Ann Arbor, Michigan. EM, HY, SA, SM, ST.

| Soil Surface Compaction with a Foam-Type Explosive, by L. J. Goodman, A. R. Aidun, and C. S. Grove, Jr. (January, 1965. Prior disucssion: July, September, 1965. Discussion closed.) by L. J. Goodman, A. R. Aidun, and C. S. Grove, Jr. (closure) | 88        |
|--|-----------|
| Precompression for Support of Shallow Foundations, by Harl P. Aldrich, Jr. (March, 1965. Prior dis- cussion: July, September, November, 1965. Dis- cussion closed.) by Harl P. Aldrich, Jr. (closure)  | 91        |
| Shallow Foundations, by George G. Meyerhof. (March, 1965. Prior discussion: November, 1965. Discussion closed.) by George G. Meyerhof (closure)  | 92        |
| Pile and Pier Foundations, by Ralph B. Peck.<br>(March, 1965. Prior discussion: September,<br>November, 1965. Discussion closed.)<br>There will be no closure.   |           |
| In-Situ Strength Characteristics of Soft Clays, by Iraj Noorany and H. Bolton Seed. (March, 1965. Prior discussion: November, 1965. Discussion closed.) by Iraj Noorany and H. Bolton Seed (closure)   | 93        |
| Settlement Analyses, A Review of Theory and Testing Procedures,<br>by H. Bolton Seed. (March, 1965. Prior discussion: November,<br>1965. Discussion closed.)<br>There will be no closure.  |           |
| State-of-the-Art of Floating Foundations, by Hugh Q. Golder. (March, 1965. Prior discussion: September, November, 1965. Discussion closed.) by Hugh Q. Golder (closure)  | 95        |
| Tolerance of Structures to Settlement, by Jacob Feld. (May, 1965. Prior discussion: September, November, 1965, January, 1966. Discussion closed.) by Jacob Feld (closure)  | 97        |
| Role of the "Calculated Risk" in Earthwork and Foundation Engineering, by Arthur Casagrande. (July, 1965. Prior discussion: January, March, 1966. Discussion closed.) by Henry A. Mohr by Wallace L. Chadwick                                      | 99<br>100 |
| Standard Penetration Test: Its Uses and Abuses, by Gordon F. A. Fletcher. (July, 1965. Prior discussion: January, March, 1966. Discussion closed.)   |           |

Page

| Design of Footing for Exposed Exterior Column, by Yin-chow Chang. (July, 1965. Prior discussion: None. Discussion closed.) errata             | 105 |
|---|-----|
| Pore Water Pressure in Unsaturated Soils, by Roy E. Olson and Leonard J. Langfelder. (July, 1965. Prior discussion: None. Discussion closed.) |     |
| errata  | 106 |

Page