
Journal of the
WATERWAYS AND HARBORS DIVISION
Proceedings of the American Society of Civil Engineers

WATERWAYS AND HARBORS DIVISION
EXECUTIVE COMMITTEE

Charles F. MacNish, Chairman; Joseph F. Friedkin, Vice-Chairman;
Evan W. Vaughan; Mark S. Gurnee; Robert J. Winters, Secretary
Roger H. Gilman, Board Contact Member

COMMITTEE ON PUBLICATIONS

Jay V. Hall, Jr., Chairman; Eric Bottoms; Joseph M. Caldwell;
Ellsworth I. Davis; James W. Dunham; Donald R. Forrest

CONTENTS

November, 1962

Papers

| | Page |
|--|------|
| Offshore Mooring Island for Supertankers by V. Blancato and J. H. Finger | 1 |
| Evaluation of Mooring Forces by Shu-t'ien Li | 19 |
| Soil Conservation Measures in River Basin Planning by C. J. Francis and R. G. Andrews | 39 |
| Control of Alluvial Rivers by Steel Jetties by E. J. Carlson and R. A. Dodge, Jr. (over) | 53 |

Copyright 1962 by the American Society of Civil Engineers.

The three preceding issues of this Journal are dated February 1962, May 1962, and August 1962.

DISCUSSION

| | Page |
|--|------|
| Marine Oil Terminal for Rio de Janeiro, Brazil, by H. W. Reeves. (February, 1961. Prior discussion: August, November, 1961. Discussion closed.) by H. W. Reeves (closure) | 85 |
| Deep Water Wave Generation by Moving Wind Systems, by Basil W. Wilson. (May, 1961. Prior discussion: February, August, 1962. Discussion closed.) by Basil W. Wilson (Addendum to Closure) | 95 |
| Economic Evaluation of Inland Waterway Projects, by Shu-t'ien Li and Eric E. Bottoms. (August, 1961. Prior discussion: February, May, 1962. Discussion closed.) by Shu-t'ien Li (closure) | 97 |
| Columbia River Ship Channel Improvement and Maintenance, by Robert E. Hickson. (August, 1961. Prior discussion: February, May, 1962. Discussion closed.) by Robert E. Hickson (Addendum to Closure) | 111 |
| Stabilization of the Middle Rio Grande in New Mexico, by Robert C. Woodson. (November, 1961. Prior discussion: May, 1962. Discussion closed.) by Robert C. Woodson (closure) | 113 |
| Bank and Levee Stabilization, Lower Colorado River, by John S. McEwan. (November, 1961. Prior discussion: May, 1962. Discussion closed.) by John S. McEwan (closure) | 115 |
| Land and Water Resource Planning in Texas, by Charles D. Curran and Forney W. Fleming. (November, 1961. Prior discussion: None. Discussion closed.) by William Whipple, Jr. | 117 |
| by Forney W. Fleming (closure) | 119 |
| by Charles D. Curran (closure) | 120 |
| Hurricane Studies of New York Harbor, by Samuel Gofseyeff and Frank L. Panuzio. (February, 1962. Prior discussion: August, 1962. Discussion closed.) by Basil W. Wilson | 127 |
| Berthing and Mooring Forces, by Glenn B. Woodruff. (February, 1962. Prior discussion: August, 1962. Discussion closed.) by B. F. Saurin | 133 |
| by Basil W. Wilson | 133 |

| | Page |
|--|------|
| Formulas for Design of Rubble-Mound Breakwaters, by Roald Svee. (May, 1962. Prior discussion: None. Discussion closed.) | |
| by Robert Q. Palmer and Clarence S. Fujii | 135 |
| Hovering Breakwaters, by R. L. Wiegel, H. W. Shen, and J. D. Cummings. (May, 1962. Prior discussion: None. Discussion closed.) | |
| by J. F. Ripken. | 137 |
| Channel Stabilization on the Arkansas River, by John L. Bush. (May, 1962. Prior discussion: None. Discussion closed.) | |
| by R. F. Buffington | 139 |
| Laboratory Determination of Littoral Transport Rates, by Rudolph P. Savage. (May, 1962. Prior discussion: None. Discussion closed.) | |
| by Thorndike Saville, Jr. | 141 |
| by Madhav Manohar | 144 |
| Wave Force Coefficients for Offshore Pipelines, by by Herbert Beckmann and Murphy H. Thibodeaux. (May, 1962. Prior discussion: None. Discussion closed.) | |
| by I. Alterman | 149 |