CONTENTS

by Francis F. Escoffier and Todd L. Walton, Jr	341
Mixing of Buoyant Surface Jet over Sloping Bottom by Bijan Safaie	357
Wharf Design in the Philippines by James Simpson and Estello C. Tumblod	375
Statistics of Larger Waves in a Sea State by Kenneth G. Nolte and Feng H. Hsu	389
Potamology in 1932: Lower Mississippi River by Leo M. Odom	405
Wave Forces on Partially Submerged Cylinders by A. Graham Dixon, Clive A. Greated, and Stephen H. Salter	421
Wave Diffraction by Absorbing Wedge by Jesper Larsen	439
TECHNICAL NOTES	
Proc. Paper 14944	
Observations on Low-Cost Shore Protection	

This Journal is published quarterly 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 \$6.00. Nonmember subscriptions available; prices obtainable on request. Second-class postage paid at New York, N.Y. and at additional mailing offices. IR, WW.

453

by Ernest F. Brater

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

by John N. Hunt	57
Beach-Slope Dependence of Longshore Currents by Paul D. Komar	60
Discretization of Harbor Resonance Problem by Franco Mattioli and Stefano Tinti	64
Joint Probability of Wave Period and Height by Kenneth G. Nolte	70
DISCUSSION	
Proc. Paper 14940	
The Wave Pump: Conversion of Wave Energy to Current Energy, by Per Bruun and Gisli Viggosson (Nov., 1977. Prior Discussions: Nov., 1978, Feb., 1979). closure	77
Wave Runup around Large Circular Cylinder, by Michael de St. Q. Isaacson (Feb., 1978, Prior Discussion: Feb., 1979). closure	77
Wave Forces on Multiple Vertical Cylinders, by Subrata K. Chakrabarti (May, 1978). errata	79
Virtual Mass of Coarse Granular Media, by Alim A. Hannoura and John A. McCorquodale (May, 1978. Prior Discussion: Feb., 1979). closure	79
Dynamic Responses of Floating Structures, by Jun C. Chao (May, 1978. Prior Discussion: Feb., 1979). closure	80
Measurements of Bed Load in Oscillatory Flow, by John F. A. Sleath (Aug., 1978). by Robert G. Dean and Eugene P. Berek	81
Wave Damping Due to Rubblemound Breakwaters, by Michael de St. Q. Isaacson (Nov., 1978. Prior Errata: May, 1979). errata	84
*Discussion period closed for this paper. Any other discussion received during the discussion period will be published in subsequent Journals.	

Wave Forces on Pipeline Buried in Permeable Seabed, by Hugh MacPherson (Nov., 1978).	
errata	484
Dolosse Armoring Design for an Offshore Airport, by Martin T.	
Czerniak, Charles J. Lord, and J. Ian Collins (Mar., 1979).	
by Orville T. Magoon and Billy L. Edge	485

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.

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