CONTENTS

Papers	Page
LABORATORY STUDY OF LIFT FORCES ON CIRCULAR PILES by Devidas D. Bidde	595
LABORATORY STUDY OF DEGRADATION AND AGGRADATION by Suryanarayana Bhamidipaty and Hsieh W. Shen	615
CONTROL OF NATURAL CHLORIDE, ARKANSAS-RED RIVERS by Myron W. DeGeer and Robert J. Hensley	631
ULTIMATE ENERGY DESIGN OF PRESTRESSED CONCRETE FENDER PILING by Shu-t'ien Li and Venkataswamy Ramakrishnan	647
FOURIER ANALYSIS OF TRANSIENT WAVE SYSTEM by Edward K. Noda	663
ECONOMICS OF CHANNELS AND MANEUVERING AREAS FOR SHIPS by Richard G. Waugh, Jr	671
LONGSHORE TRANSPORT COMPUTATIONS by Eco W. Bijker	687
DESIGN CRITERIA FOR NORTH SEA DIKES by Johann Kramer	703
SECTOR GATES IN BANGKOK KLONG SYSTEM by Fred C. Stepanich	721
REGULAR WAVE EFFECTS ON WALLS MADE OF CYLINDERS by G. D. Khaskhachikh and O. M. Vanchagov	735
(over)	

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 is \$8.00 per year with discounts to members and libraries. Second-class postage paid at New York, N.Y. and at additional mailing offices. IR, WW.

DISCUSSION

Proc. Paper 8488

SELF-STABILIZING TENDENCIES OF ALLUVIAL CHANNELS, by Johannes Gessler (May, 1970. Prior Discussions: Feb., 1971). closure	757
HISTORY AND FUTURE OF OHIO RIVER NAVIGATION, by Carl H. Gaum (May, 1970. Prior Discussion: Feb., 1971). closure	759
COASTAL EROSION IN NORTH CAROLINA, by Leonard J. Langfelder, Donald B. Stafford, and Michael Amein (May, 1970. Prior Discussion: Feb., 1971).	
closure	761
FRAMEWORK PLAN FOR OHIO BASIN NAVIGATION TO 2020, ^a by Theodore A. Kent (Aug., 1970. Prior Discussion: Feb., 1971). by James W. Nisbet	761
NUMERICAL MODEL FOR TSUNAMI RUN-UP, by Kenneth L. Heitner and George W. Housner (Aug., 1970).	
FLUME EXPERIMENTS ON ALTERNATE BAR FORMATION, ² by Hai-Yain Chang, Darly B. Simmons, and David A. Woolhiser (Feb., 1971. Prior Discussion: Aug., 1971).	766
by R. A. Callander	768 768
INTERACTION OF WAVES WITH SUBMERGED OBJECTS, a by C. J. Garrison and V. Seetharama Rao (May, 1971). by Subrata K. Chakrabarti	771
WIND AND SURGE DAMAGE DUE TO HURRICANE CAMILLE, a by H. C. S. Thom and R. D. Marshall (May, 1971).	
by Melvin W. Jackson	775

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

TECHNICAL NOTES

Proc. Paper 8491

RIVER BED TRANSPORT RELATED TO MEANDER MIGRATION RATES	
by Charles R. Neill	783
WAVE TRAIN DIRECTION ANALYSIS by Subrata K. Chakrabarti	787
ESTIMATION OF WAVE PARAMETERS AT MARINE CONSTRUCTION	
by Yu M. Krylov, S. S. Strekalov, and V. F. Tsyploukhin	793