CONTENTS

Papers	Page
MATHEMATICAL MODEL FOR WATER POLLUSTION CONTROL STUDIES by Alvin S. Goodman and William E. Dobbins	1
IMPOUNDMENT DESTRATIFICATION BY MECHANICAL PUMPING	1
by William H. Irwin, James M. Symons, and Gordon G. Robeck	21
ECONOMICS OF COMPOSTING MUNICIPAL REFUSE IN EUROPE AND ISRAEL by George J. Kupchik	41
PARTIAL DEMINERALIZATION OF BRACKISH WATERS BY ION EXCHANGE	11
by Robert L. Sanks and Warren J. Kaufman	57
RADIOACTIVE EQUILIBRIUM TIME by William A. Goldsmith and Eddie J. Middlebrooks	85
ORTHOKINETIC FLOCCULATION IN WATER PURIFICATION by Howard S. Harris, Warren J. Kaufman, and Ray B. Krone	95

(over)

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.

DISCUSSION

Proc. Paper 4996

FIELD ESTIMATES OF OXYGEN BALANCE PARAMETERS, by Thomas R. Camp (Oct., 1965. Prior Discussion: Feb., June, 1966).	
closure	115
SIMULATION AND ANALYSES OF A REFUSE COLLECTION SYSTEM, by Jimmie E. Quon, Abraham Charnes, and Stephen J. Wersan (Oct., 1965. Prior Discussion: June, 1966). closure	117
MASS AND ENERGY RELATIONSHIPS IN ANAEROBIC DIGESTION ^a , by E. D. Schroeder and A. W. Busch (Feb., 1966). by John S. Jeris	119
PREDICTING TEMPERATURES IN RIVERS AND RESERVOIRS ^a , by William H. Delay and John Seaders (Feb., 1966. Prior Discussion: Oct., 1966). by Rex A. Elder and Walter O. Wunderlich	120
OPTIMIZATION ANALYSIS FOR BIOLOGICAL FILTER DESIGN ^a , by William S. Galler and Harold B. Gotaas (Feb., 1966. Prior Discussion: Oct., 1966). by Rolf A. Deininger	124 126 128
PRECIPITATION OF IRON IN AERATED GROUND WATER ^a , by Mriganka M. Ghosh, John T. O'Connor, and R. S. Engelbrecht (Feb., 1966. Prior Discussion: Oct., 1966). by Charles Winklehaus, Francis A. DiGiano, and Walter J.	
	129 137
William C. Boyle (Apr., 1966).	
FEDERAL WATER POLLUTION CONTROL LABORATORIES ^a , by David H. Howells (Apr., 1966, Prior Discussion: Oct. 1966)	144
by Fred J. Burgess	146
DRAINAGE CHARACTERISTIC OF DIGESTED SLUDGE ^a , by Jimmie E. Quon and Glenn M. Johnson (Apr., 1966). by John H. Nebiker and Donald D. Adrian	148

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

	Page
DICHROMATE VERSUS CERIC SULPHATE IN COD DETERMIN- ATION ^a , by M. A. El-Dib and F. M. Ramadan (Apr., 1966). by James M. Symons	151
OXIDATION OF COAL MINE PYRITE ^a , by C. Scott Clark (Apr., 1966).	101
by Ivan Barnes	152
WHAT IS POLLUTION?—AN ENGINEER'S VIEWPOINT, by Paul D. Haney. (Feb., 1966. Prior Discussion: Aug., 1966).	
closure	156

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