

CONTENTS

Papers	Page
STREAMFLOW AND QUALITY IN THE COLUMBIA RIVER BASIN	
by Charles G. Gunnerson	1
TWO-DIMENSIONAL DISPERSION	
by John C. Bruch and Robert L. Street	17
WATER QUALITY CHARACTERIZATION—TRACE ORGANICS	
by Robert A. Baker and Bernard A. Malo	41
SPECIFYING AND EVALUATING AERATION EQUIPMENT	
by Henry H. Benjes and Ross E. McKinney	55
LOCAL, STATE, AND REGIONAL AIR POLLUTION CONTROL	
by Jean J. Schueneman	65
EFFECTS OF IMPOUNDMENTS ON WATER QUALITY	
by Milo A. Churchill and William R. Nicholas	73
ACTION ON THE SOLID WASTES PROBLEM	
by Ralph J. Black and Leo Weaver	91
AIR QUALITY AND SOURCE EMISSIONS	
by Paul Walton Purdom, Henry C. Wohlers, and Walter E. Jackson	97
FLOW IN SLUDGE-BLANKET CLARIFIERS	
by Igor Tesařík	105

(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.

	Page
MEASUREMENT AND DETECTION OF EUTROPHICATION	
by Thomas E. Bailey	121
IMPROVING RIVER AERATION AT AN UNDERFLOW DAM	
by Russell H. Susag, Maurice L. Robins, and George J. Schroepfer	133
BIODEGRADATION OF MALATHION	
by Clifford W. Randall and Robert A. Lauderdale	145
COMPARATIVE BIOLOGICAL WASTE TREATMENT DESIGN	
by W. Wesley Eckenfelder, Jr.	157
REVIEW OF "A STRATEGY FOR A LIVABLE ENVIRONMENT"	
by the Committee on Environmental Health Activities, the Sanitary Engineering Division, ASCE	171
MANAGEMENT AND MEASUREMENT OF DO IN IMPOUNDMENTS	
by James M. Symons, William H. Irwin, Robert M. Clark, and Gordon G. Robeck	181
CARBON DIOXIDE AS AN INDICATOR OF AIR POLLUTION	
by Albert F. Bush and H. B. Nottage	211

DISCUSSION

Proc. Paper 5623

EVALUATION OF HYDRAULIC EFFICIENCY OF SEDIMENTATION BASINS, by M. Rebhun and Y. Argaman (Oct., 1965. Prior Discussion: Apr., June, 1966).	
closure	257
NOMINAL DIAMETER OF FLOC RELATED TO OXYGEN TRANSFER, by James A. Mueller, Karl G. Voelkel, and William C. Boyle (Apr., 1966. Prior Discussion: Dec., 1966, Apr., 1967).	
closure	258
FIELD TECHNIQUES FOR EVALUATING AERATORS, by Richard A. Conway and Gordon W. Kumke (Apr., 1966. Prior Discussion: Oct., 1966, Feb., Oct., 1967).	
closure	261

MIXING AND DISPERSION STUDIES IN SAN FRANCISCO BAY, by Thomas E. Bailey, Charles A. McCullough, and Charles G. Gunnerson (Oct., 1966. Prior Discussion: June, 1967). closure	262
TIME-SERIES ANALYSES OF WATER-QUALITY DATA ^a , by Robert V. Thomann (Feb., 1967. Prior Discussion: Aug., 1967). by Kyatsandra Seetharamiah and Amruthur S. Ramamurthy by Chester C. Kisiel	264 265
RISK EVALUATION IN SEWAGE TREATMENT PLANT DESIGN ^a , by Daniel P. Loucks (Feb., 1967). by Dominic M. DiToro, Donald J. O'Connor, and Robert V. Thomann	268
SETTLING OF ACTIVATED SLUDGE IN HORIZONTAL TANKS ^a , by Claes N. H. Fischerström, Erik Isgard, and I. Larsen (June, 1967). by Richard I. Dick	271
SIMULATION OF THE TRICKLING FILTER PROCESS ^a , by Walter J. Maier, Vaughn C. Behn, and Charles D. Gates (Aug., 1967). by Edward D. Schroeder	274

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