

CONTENTS

BREAKING NEW GROUND by Oscar S. Bray	1
ANNUAL ADDRESS by Samuel S. Baxter	5
THE ENVIRONMENTAL CHALLENGE—VALUES IN CONFLICT by James H. Wright	17
POLLUTION, POLITICS AND PROTEST by Charles L. Gould.	23
POLICY DEVELOPMENT—AN EMERGING ROLE FOR CIVIL ENGINEERS by Robert F. Baker	35
THE CIVIL ENGINEER: QUIET MAN OR SPOKESMAN? by Hadley Johnson, Jr.	51
THE CITY AND THE CIVIL ENGINEER by Walter G. Heintzleman	55
SYSTEMS APPROACH AND THE CIVIL ENGINEER by Kenneth W. Heathington and R. Brian Bunton Discussion by Dr. Thomas C. Kavanagh.	65 75
PROSPECTIVES IN BIOENGINEERING RESEARCH FOR CIVIL ENGINEERS by George Bugliarello	83

This Journal is published aperiodically 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 6.00 per year with discounts to members and libraries. CO, UP, PO, PP, SU.

CIVIL ENGINEERING IN HEALTH CARE SYSTEMS by Tung Au	87
SOCIAL AND ECOLOGIC IMPLICATIONS OF PROPOSALS FOR OUT-OF-BASIN RIVER DIVERSIONS by Bernard B. Berger	95
TALL BUILDINGS—A TECHNOLOGICAL ASSESSMENT by Thomas C. Kavanagh	111
COMPETITIVE BIDDING ON FOREIGN WORK by E. Montford Fucik	121
TO PRACTICE OR PERISH by Dan H. Pletta and George A. Gray	131
ENGINEERING EDUCATION AND A PROFESSIONAL ETHIC by Charles R. Schrader	147
THE ETHICS OF TEACHER EVALUATION by Chester Lee Allen Discussion by Prof. John M. Hayes	153 158
LICENSURE OF PLANNERS AND ITS EFFECT ON CIVIL ENGINEERS by Kenneth P. Norrie	161
GUIDELINES FOR ENGAGING IN PUBLIC AFFAIRS ACTIVITIES by the Committee on Public Affairs of the Member Activities Division	167

DISCUSSION

Proc. Paper 8408

ONE MAN'S VIEW OF REGISTRATION TODAY, by Oscar S. Bray (July, 1969. Prior Discussions: Sept., 1970). closure	225
CIVIL ENGINEERING MANAGEMENT IN PRIVATE PRACTICE, by Elmer K. Timby (July, 1969. Prior Discussion: Sept., 1970). closure	226
ENGINEERING SOCIETIES' PROGRAM FOR TRAINING MINORITY MANPOWER, by Sol E. Cooper (July, 1969. Prior Discussions: July, Sept., 1969). closure	226
MOONLIGHTING AND PROFESSIONAL RESPONSIBILITY, ^a by George L. Reed (Sept., 1970). by Manley A. Roose.	227
GUIDE FOR PUBLIC AGENCY PROFESSIONAL DEVELOPMENT, ^a by Marble J. Hensley, Sr. (Sept., 1970). by John D. Bristor	231
ENGINEERING REGISTRATION—LICENSE FOR WHAT? ^a by John W. Frazier (Sept., 1970). by Lloyd T. Cheney	232

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