

Engineering Extension
Series No. 128

**proceedings of the 53rd annual
road school**

held at

PURDUE UNIVERSITY

March 27-30, 1967

compiled and edited by

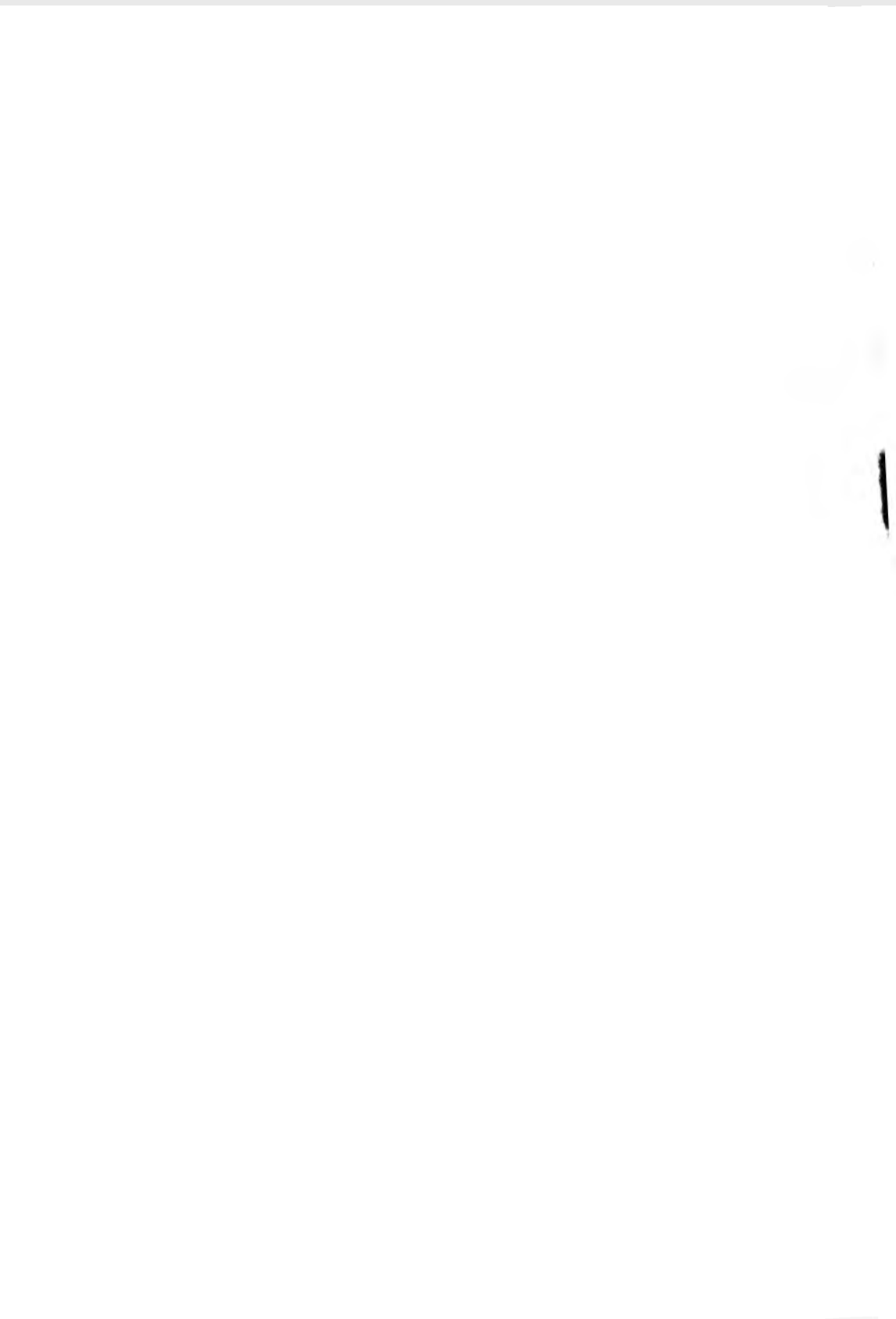
D. G. Shurig

Associate Professor of Civil Engineering

and the staff of the

Joint Highway Research Project

purdue university • lafayette, ind.



CONTENTS

PREFACE	1
RESEARCH NEEDS IN HIGHWAY TRANSPORTATION W. N. Carey, Jr., Director, Highway Research Board, Washington, D. C.....	11
PUTTING HIGHWAY RESEARCH TO USE ¹ W. A. Goodwin, Program Engineer, Highway Research Board, Washington, D. C.....	22
BRIDGING THE GAP—THEORY AND CURRENT PRACTICE George W. McAlpin, Deputy Chief Engineer, New York State Department of Public Works, Albany, New York.....	33
INSPECTION AND CONTROL—PURPOSES, PEOPLE AND PROBLEMS Charles E. Sengstock, Soiltest, Inc., Evanston, Illinois.....	41
TRAINING PROGRAMS FOR THE HIGHWAY INDUSTRY Emmet H. Karrer, Professor of Highway Engineering, The Ohio State University, Columbus, Ohio.....	50
MY SIX YEARS IN WASHINGTON, D. C. Rex M. Whitton, Associate Howard, Needles, Tammen and Bergendoff, Kansas City, Missouri, Formerly, Federal Highway Administrator.....	58
THE HIGHWAY PROGRAM IN INDIANA— STATE AND LOCAL Martin L. Hayes, Executive Director, Indiana State Highway Commission, Indianapolis.....	64
1967 HIGHWAY LEGISLATION—STATE AND LOCAL Joseph L. Harrison, Assistant to the Executive Director, Indiana State Highway Commission, Indianapolis.....	73
IMPLEMENTING THE 1966 HIGHWAY SAFETY ACTS Matthew C. Sielski, Director, Office of Driving Environment Programs, National Highway Safety Agency, Washington, D. C.....	79

IMPACT OF THE 1966 HIGHWAY SAFETY ACTS ON INDIANA David J. Allen, Assistant to the Governor, State of Indiana, Indianapolis.....	89
AESTHETICS OF HIGHWAY DESIGN Frederick O. Lanphear, Associate Professor, Department of Horticulture, Purdue University.....	96
HIGHWAY DESIGN FOR SAFETY Harold W. Wilson, Assistant Engineer of Plans and Specifications, Indiana State Highway Commission.....	102
THE CITY TRAFFIC ENGINEER'S ROLE IN TRANSIT IMPROVEMENT John H. Bunch, Traffic Engineer, City of Madison, Madison, Wisconsin.....	117
OPTIMIZATION OF TRAFFIC SIGNAL SYSTEMS Thomas C. Pitman, Signal Design and Construction Engineer, Indiana State Highway Commission.....	137
CORRELATION OF DESIGN CHARACTERISTICS AND OPERATIONAL CONTROLS WITH ACCIDENT RATES ON URBAN ARTERIALS Thomas E. Mulinazzi, Graduate Fellow, School of Civil Engineering, Purdue University, and Harold L. Michael, Associate Director, Joint Highway Research Project, Purdue University.....	150
PROBLEMS OF THE POLICE TRAFFIC OFFICER Robert P. Miller, Director, Traffic Improvement Department, Lafayette, Indiana.....	174
TECHNIQUES FOR COMPACTION CONTROL E. J. Yoder, Research Engineer, Joint Highway Research Project, and T. G. Williamson, Assistant Research Engineer, ISHC, Research and Training Center, West Lafayette.....	179
ANNUAL TRAVEL ON COUNTY HIGHWAYS OF INDIANA W. C. Vodrazka, Research Assistant, and H. L. Michael, Highway Extension and Research Project for Indiana Counties, Purdue.....	194
THE COUNTIES AND TRAFFIC SAFETY John E. Stoner, Professor, Department of Government, Indiana University.....	215

ALLEN COUNTY DATA BANK

Richard E. Armstrong, Director,
Allen County Computer Center, Fort Wayne, Indiana..... 226

SANITARY LANDFILLS

John M. Bell, Assistant Professor,
Sanitary Engineering Department, Purdue University..... 230

