

Proceedings of the 67th Annual Road School

**Held at
Purdue University, March 10-12, 1981**

**Edited by
D.G. Shurig, Associate Professor
of Highway Engineering**

**Road School Cochairman
H.L. Michael – Head, School
of Civil Engineering
Director, Joint Highway Research Project**

**W.H. Goetz – Assistant Head
School of Civil Engineering
Director, Highway Extension and
Research Project for Indiana Counties**

**Purdue University
West Lafayette, Indiana**

CONTENTS

PREFACE	1
PRESSURED EMULSION MIX — CRACK REPAIR	
Charles L. Huisman Materials Engineer Highway Division — Office of Materials Iowa Department of Transportation	11
MODERN STORM WATER MANAGEMENT	
Ray Helmer, P.E. Field Engineer Great Lakes Region National Corrugated Steel Pipe Association Mansfield, Ohio	32
HERPIC COUNTY STORM DRAINAGE MANUAL	
Christopher B. Burke Research Assistant Highway Extension and Research Project for Indiana Counties Purdue University	47
TREATMENT OF SANITARY WASTES AT INTERSTATE REST AREAS	
James E. Etzel Water Refining Company Professor of Environmental Engineering Purdue University	54
INDIANA'S RESPONSIBILITIES FOR FUNDING OF HIGHWAYS IN THE EIGHTIES	
James G. Newland Executive Director Indiana Constructors, Inc. Indianapolis, Indiana	86
RECYCLING BITUMINOUS PAVEMENTS	
Donn E. Hancher Research Engineer Joint Highway Research Project Purdue University	91

LOW POROSITY, HIGH STRENGTH CONCRETE FOR BRIDGE DECKS	
Sidney Diamond	
Professor of Engineering Materials	
School of Civil Engineering	
Purdue University	97
HIGHWAY BRIDGE VIBRATION STUDIES	
John T. Gaunt	
C. Douglas Sutton	
Research Engineers	
Joint Highway Research Project	
School of Civil Engineering	
Purdue University	102
CHEMICAL MOWING	
D. James Morre	
Department of Medicinal Chemistry and	
Department of Biological Sciences	
Purdue University	117
USE OF SHALE IN HIGHWAY EMBANKMENTS	
C.W. Lovell	
Research Engineer	
Joint Highway Research Project	
School of Civil Engineering	
Purdue University	122
AN OVERVIEW OF CURRENT RESEARCH OF THE INDIANA STATE HIGHWAY COMMISSION'S RESEARCH AND TRAINING CENTER	
Barry K. Partridge, P.E.	
Research Engineer	
Indiana State Highway Commission	
Research and Training Center	
West Lafayette, Indiana	131
FORT WAYNE—NEW HAVEN—ALLEN COUNTY YEAR 2000 TRANSPORTATION PLAN	
Carl E. O'Neal	
Director of Transportation	
Fort Wayne, Indiana	138

PAVEMENT EVALUATION AND PAVEMENT MAINTENANCE

Eldon J. Yoder
Research Engineer
Joint Highway Research Project
School of Civil Engineering
Purdue University 146