

Series No. 139
Engineering Extension

**proceedings of the 58th annual
road school**

held at
Purdue University, April 3-April 6, 1972

edited by
D. G. Shurig, Assoc. Prof. of Civil Engineering

road school co-chairmen
W. H. Goetz—Assist. Head, School of Civil Engineering
H. L. Michael—Prof. of Highway Engineering
Assoc. Director, Joint Highway Research Project

purdue university • lafayette, ind.

CONTENTS

	Page
PREFACE	1
FEDERAL FINANCING FOR TRANSPORTATION AFTER 1972	
Daniel J. Hanson Deputy Executive Vice President American Road Builders' Association	13
EFFECTS OF STUDED TIRES ON PAVEMENT WEAR AND TRAFFIC SAFETY	
C. K. Preus Research Coordination Engineer Minnesota Highway Department	23
SYSTEM STANDARDS FOR DRIVERS, VEHICLES AND HIGHWAYS	
Henry H. Wakeland, Director Bureau of Surface Transportation Safety National Transportation Safety Board Washington, D.C.	45
ROADSIDE SERVICES FOR THE TOURIST	
Ross T. Shoaf, President Institute of Traffic Engineers San Francisco, California	54
TRAFFIC PROTECTION FOR HIGHWAY WORK AREAS	
W. A. Frick, Partner Homer L. Chastain & Associates Decatur, Illinois	63
THE CITY ENGINEER AND INDIANA MUNICIPAL LAW	
Christian J. Litscher, Deputy Director Indianapolis Department of Transportation	81
INDIANA STATE HIGHWAY REPORT 1971-72 (PART I)	
Ruel W. Steele, Chairman Indiana State Highway Commission	99

INDIANA STATE HIGHWAY REPORT 1971-72

(PART II)

R. H. Harrell, Executive Director
Indiana State Highway Commission 107

THE 1972 NATIONAL TRANSPORTATION NEEDS
STUDY IN INDIANA—METHODOLOGY AND
FINDINGS

William R. Black
Assistant Professor of Geography
Indiana University 119

TRAFFIC SAFETY NEEDS IN INDIANA

Albert E. Huber, Executive Director
Indiana Traffic Safety Council, Inc. 135

MINIMAL COST MAINTENANCE FOR INDIANA
ROADSIDES

D. James Morre
Department of Botany and Plant Pathology
Purdue University 142

BLOWUPS: STILL A PROBLEM?

Eldon J. Yoder, Research Engineer
Paul T. Foxworthy, Research Assistant
Joint Highway Research Project
Purdue University 144

EVALUATION OF SMALL CITY TRAFFIC SIGNAL
NETWORK

W. L. Grecco, Research Engineer
C. E. Cooper, Research Assistant
Joint Highway Research Project
Purdue University 159

STATISTICS INTERPRETED

R. D. Pavlovich
Graduate Instructor, Civil Engineering
Purdue University 180

STATUTE REQUIREMENTS FOR OFFICE OF COUN-
TY SURVEYOR IN INDIANA

John G. McEntyre
Professor of Land Surveying
Purdue University 197

IMPLEMENTATION OF PERPETUATION PROGRAMS
FOR GOVERNMENT CORNERS

J. David Johnson, P.E.
Public Survey Data Department
Harrison Marker and Instrument Company
Anoka, Minnesota 231

STORM DRAINAGE IN INDIANA COUNTIES

J. A. Spooner
Assistant Professor of Hydraulic Engineering
Purdue University 237

