

**Conference Proceedings
of the
95th Annual
Purdue Road School**

March 10-12, 2009



CHAIRMEN

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Director, Joint Transportation Research Program

and

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Indiana Local Technical Assistance Program



**Purdue University
West Lafayette, Indiana**

**Engineering Extension Series
No. 180**

Purdue University

Purdue University is one of the 68 land-grant colleges and universities that owe their origin to the Land-Grant Act of 1852, otherwise known as the Morrill Act. Three years after the act's passage, the General Assembly of Indiana voted to begin preliminary plans for a school devoted primarily to the agricultural and mechanical arts.

In 1869, the Assembly voted to accept a gift of land and money from John Purdue and other generous Lafayette citizens, and, in appreciation, declared the name of the new institution to be Purdue University. The University is assisted by state appropriations, with support by federal grants and corporate and individual contributions.

Actual instruction began in 1874 with 39 students and a faculty of six. Today, Purdue University enrolls more than 65,000 students at the following locations:

West Lafayette
Calumet (Hammond)
Indiana University-Purdue University Fort Wayne
Indiana University-Purdue University Indianapolis
North Central (Westville)
plus 11 School of Technology statewide delivery system locations

Instruction is organized through the schools of Agriculture, Consumer and Family Sciences, Education, Liberal Arts, Management, Pharmacy, Nursing, Health Sciences, Science, Technology; and Veterinary Medicine; and through the College of Engineering, the Graduate School, and Departments as follows:

College of Engineering Schools

Aeronautics and Astronautics
Chemical
Civil
Electrical and Computer
Industrial
Materials
Mechanical
Nuclear Engineering

Departments

Agricultural and Biological Engineering
Construction Engineering and Management
Freshman Engineering
Division of Interdisciplinary Engineering Studies

Extensive research programs are maintained by nearly all academic areas of the University. The Cooperative Extensive Service, through the county agents, services the entire state. A variety of courses are offered through the conferences program and continuing education services sponsored by the University.

The College of Engineering
at
Purdue University

Graduate degrees are offered in the fields of aeronautics and astronautics and interdisciplinary engineering studies, and in agricultural, chemical, civil, electrical, industrial, mechanical, materials, and nuclear engineering.

Research activities in these fields are conducted as a part of the program of graduate instruction with students participating under the direction of their professors. The programs of graduate research and education in the engineering schools are increasingly concerned with the fundamentals of the physical sciences and mathematics, as the engineering profession faces increasing responsibilities for dealing with problems whose solutions lie at the frontiers of knowledge.

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J. Paul Swartz

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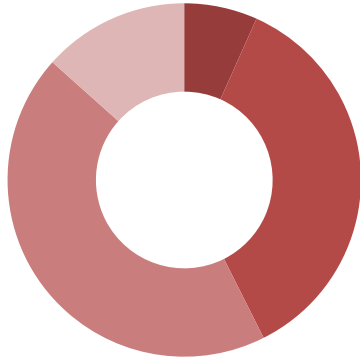


**2009 Road School Planning Meeting
August 6, 2008**

First Row: Jim Olson, Karen Hatke, Tommy Nantung, Walt Land, Lisa Calvert, Sarah Hubbard
Second Row: Tony Jones, Greg Ellis, Jon Fricker, Dennis Belter, Phil Beer, John Haddock, Gary Mroczka, Celina Osborn, Richard Domonkos
Third Row: Mike Bowman, Dwane Myers, Mike Byers, Jim Reid, John Habermann, Gary Eaton, Dan Keefer
Fourth Row: Jerry Bridges, John Jordan, Barry Partridge, Gary Eakin, Wes Shaw, Roland Fegan, Joe Novak

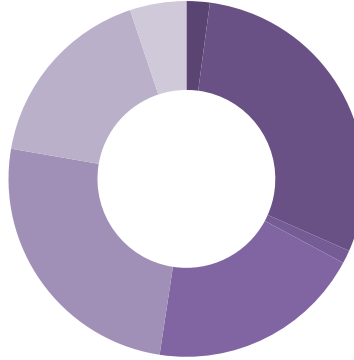
2009 ROAD SCHOOL ATTENDANCE

CITY/TOWN OFFICIALS



- Elected Officials
- Engineering Department
- Street Commissioners
- Other

COUNTY OFFICIALS



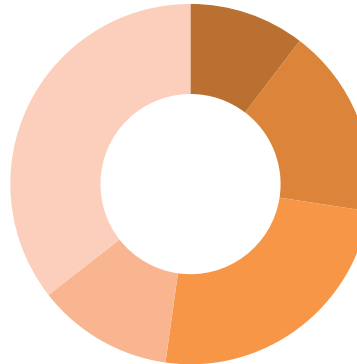
- Auditor's Office
- Commissioners
- Council Members
- Highway Engineers
- Highway Supervisors
- Surveyor's Office
- Other

INDOT

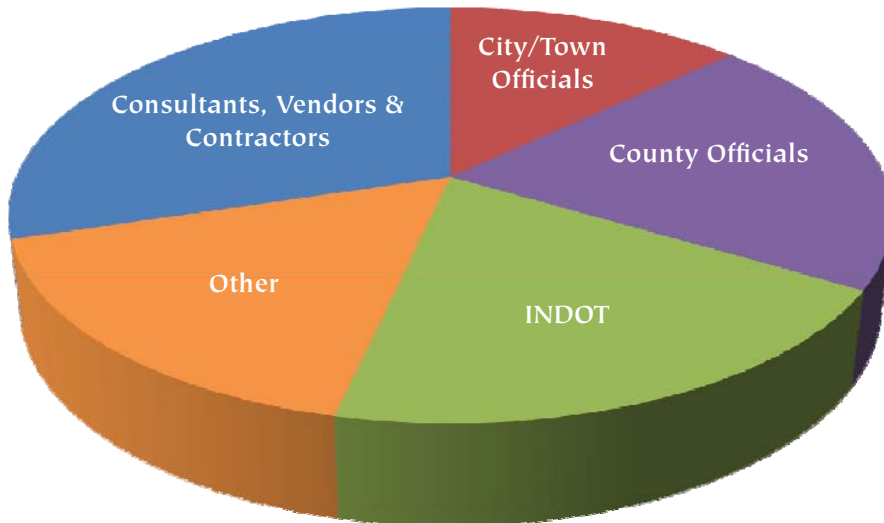


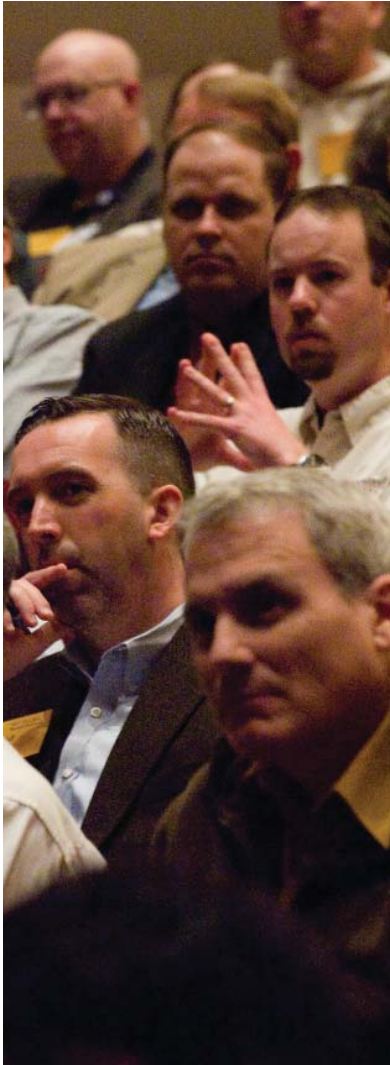
- Central Office
- District Offices
- Subdistrict Offices
- Other

OTHER



- FHWA
- Purdue University Faculty/Staff
- Purdue University Students
- MPO
- Other





	2005	2006	2007	2008	2009
	March 29-31	March 28-30	March 6-8	March 25-27	March 10-12
CITY/TOWN OFFICIALS					
Elected Officials	6	15	6	14	14
Engineering Department	52	58	56	68	75
Street Commissioners	72	76	54	94	92
Other	3	33	25	25	28
SUBTOTAL	133	182	141	201	209
COUNTY OFFICIALS					
Auditor's Office	20	13	14	10	7
Commissioners	110	95	86	94	98
Council Members	9	5	6	11	4
Highway Engineers	76	64	60	67	65
Highway Supervisors	95	95	85	90	84
Surveyor's Office	61	55	55	59	57
Other	0	20	10	22	17
SUBTOTAL	371	347	316	353	332
INDOT					
Central Office	111	121	148	179	133
District Offices	122	153	196	231	159
Subdistrict Offices	13	19	15	21	21
Other	0	26	8	18	9
SUBTOTAL	246	319	367	449	322
MISCELLANEOUS					
FHWA	14	18	15	24	28
Purdue University Faculty/Staff	50	35	29	56	46
Purdue University Students	52	77	26	33	67
MPO	12	12	25	18	33
Other	26	85	82	73	96
SUBTOTAL	154	227	177	204	270
CONSULTANTS, VENDORS & CONTRACTORS					
SUBTOTAL	331	426	476	523	480
GRAND TOTALS	1235	1501	1477	1730	1613



2009 QUALITY ACHIEVEMENT AWARDS

SPECIAL PROJECTS UNDER \$2,000,000: EMERGENCY BRIDGE REPAIRS BRIDGE NO. 46-60-6688



Owner: INDOT Seymour District, Jim Stark, Ron Burcham, Bill Read
Contractor: Mac Construction and Excavating, Patrick Weber
Designer: Jane Twaddle, P.E.

On Saturday, June 7, 2008 Southern Indiana experienced nearly 12 inches of rainfall. As a result the transportation system experienced severe flooding and infrastructure failure. Flood water caused severe damage and forced the closure of Structure No.46-60-6688 (a 132 ft. long bridge) located in Owen County on State Road 46 approximately four miles west of the City of Spencer, Indiana. Due to the high water and resulting damage, INDOT closed the bridge and a detour route was established. The official state detour route was approximately 60 miles long. A local detour was approximately 15 miles long. A temporary runaround was constructed and opened on July 3 much to the relief of the traveling public.

PAVEMENT / URBAN: BROADWAY REHABILITATION PROJECT

Owner: City of Logansport, Mayor Michael Fincher
Contractor: Deichman Escavating, Inc., Rusty Deichman, Sam Rees
Designer: Bonar Group, Gary Randle

This road rehabilitation project involves the improvement of a 7,194 foot segment of Broadway (Old US 24), from 6th Street to 24th Street. The project is located in the City of Logansport, Cass County. The project includes the rehabilitation of the existing pavement through milling and resurfacing with spot reconstruction. The existing pavement varies from 51.0 to 47.5 feet width and consists of three westbound thru lanes and two parallel parking lanes.

This project experienced excellent teamwork with the involved parties and reflected through an early completion, minimal complaints, and minimum disruptions to businesses.



MAJOR NEW / RECONSTRUCTION - URBAN: DIAMOND AVENUE PROJECT



Owner: INDOT Vincennes District, Curt Schum
Contractor: E&B Paving, Inc., Travis McPeak, Mark Hayden, Brian Rensberger
Designer: Woolpert, LLP/CTE, Jeff Lazzell & CTE Engineering, Inc., Dennis Clark

The Diamond Avenue project was a \$21 million reconstruction project in a highly commercialized urban section of Evansville. The reconstruction consisted of complete removal of the existing 1.4 miles of old 9 inch concrete roadway. The new roadway included four new travel lanes, center median islands, new turn lanes, improvements at four major intersections, two reconstructed US 41 ramps, street approaches, driveways, curbs, sidewalk, new signs & signals. A storm water lift station was constructed to resolve the flooding at the east end of the project. The lift station included three 10 inch pumps, two 6 inch pumps, and a backup gas generator at a cost of \$1.2 million

BRIDGES - RURAL: ALLEN CHAPEL ROAD BRIDGE PROJECT

Owner: Noble County/City of Kendallville, Commissioners Hal Stump, Jack Herendeen, Joy LeCount, Councilman Mark Pankop, Mayor W. Suzanne Handshoe, County Engineer Keith Lytton, Engineering Administrator Scott R. Derby

Contractor: Primco, Inc., Andy Rentschler
Designer: Strand Associates, Eric Brunn

The development of the Allen Chapel Road project started in 1993 with the receipt of federal funding from INDOT. The project was initiated as a joint project between Noble County and the City of Kendallville. The City had developed an industrial park on its east side and Allen Chapel Road saw an increase in traffic because of its location between US 6 to the north and SR 3 to the south. This "Kendallville Bypass" bridge has provided significant relief to the community by eliminating delays to over 500,000 vehicles annually caused by train traffic.

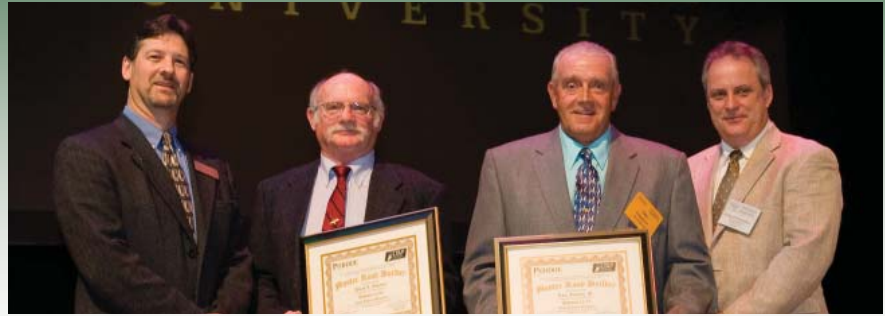


INDIANA LTAP HONORS FIRST CLASS OF MASTER ROAD BUILDERS AT ROAD SCHOOL OPENING SESSION



l to r Jessica Clark, Chief Engineer, St. Joseph County, Rich Domonkos, Training Specialist, LTAP, Dr. John Haddock, Director, LTAP

Ms. Clark is a registered P.E. in the State of Indiana. She graduated from Purdue University with a BS in Civil Engineering and began her career in 1997 as a Project Engineer with St. Joseph's County Department of Public Works. In 2003 she was promoted to Highway Engineer and ultimately became county engineer in 2007. Memberships include ASCE, IACHES and NACE. She recently contributed to secure \$42M of Federal Aid Funding for her community.



l to r Dr. John Haddock, Director, LTAP David Downey, Street Commissioner, West Lafayette, Lacy Francis Jr., Street Commissioner, Warsaw, Rich Domonkos, Training Specialist, LTAP

Mr. Downey received his undergraduate and graduate degrees at Purdue University. He first began working for the City of West Lafayette as the assistant parks director. Mr. Downey has been employed by the city for 33 years, 29 of which in the position of Street Commissioner. He is currently serving his fourth term as president of the Indiana Street Commissioners Association. He was twice voted Street Commissioner of the Year.

Mr. Francis started working for the City of Warsaw in 1992 as an inspector on their new construction projects. In 1996 he was promoted to assistant superintendent and in 1998 was promoted to superintendent of public works. He sits on the Plan Commission and Traffic Commission Boards and is the 1st vice president of the Indiana Street Commissioners Association. His hobbies include fishing and street rods.

Road School 2009 Presenters

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Back to Basics: MUTCD Part I - Traffic Control Devices

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Back to Basics: MUTCD Part II - Retroreflectivity

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Back to Basics: Pavement Preservation

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Back to Basics: Roundabouts

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Back to Basics: Transmission of Electronic Construction Data

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Back to Basics: Working with and Writing Special Provisions

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Bicycle and Pedestrian Needs for Indiana

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County Highway Engineers and Supervisors

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County Surveyors Meeting

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County-City Legal Issues

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Dealing with Traffic Back-Ups and Clearing Accident Sites

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Major Tom Melville	Major, Commander, Commercial Vehicle Enforcement Division	Indiana State Police	317 - 431 - 1292 tmelville@isp.in.gov

Developing a Code of Ethics for Your Agency

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Developments in Concrete for the Local Market

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Emergency Management...Who to Call First

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Financing Issues

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Guess Who Owns Your LPA Project - You Do!!

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Indiana Street Commissioners Meeting

Karen Avery	Director of Communications	Association of Indiana Counties	317 - 829 - 3656 kavery@indianacounties.org
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Indiana's Historic Bridges: Choosing the Select

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Introducing Commuter Rail to Indiana

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Invest Wisely...Managing Your Transportation Assets

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Listen Up!

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Local Road Safety Improvements

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Local Traffic Engineering Studies

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Maintenance Issues

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Major Moves...Moving Fast to Delivery

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Managing to a Scope, Schedule, and Budget

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MPO Issues

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New Concept: Designing to a Budget

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One Can Never Be Too Safe...Safety Issues III

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Opening Session

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Reducing Roadside Mowing with Vegetation Management

Zach Lowe	Professor of Natural Resources; Adjunct	Purdue University; Department of Forestry & Natural Res.	765 - 494 - 9730 lowez@purdue.edu
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Roadway-Corridor Preservation

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Safety Data: Its Sources and Uses

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Sustainability 101 and How It Applies to Roads and Streets

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The Customer Isn't Always Right

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The Toll Road...Taking Care of Business

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To Break or Not to Break

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Traffic Management and Operations - Indiana ITE

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Urban Issues - Branching Out

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Utility Rule Update...One Year Later

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Winter Maintenance

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