Conference Proceedings
of the
95th Annual
Purdue Road School

March 10-12, 2009

CHAIRMEN

Kumares C. Sinha
Olson Distinguished Professor, School of Civil Engineering
Director, Joint Transportation Research Program

and

Jon D. Fricker
Professor, School of Civil Engineering
Board Member, Indiana Local Technical Assistance Program

PROGRAM COORDINATORS

Karen S. Hatke
Program Coordinator
Joint Transportation Research Program

John A. Habermann
Program Manager
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.
Cover/Introduction

2009 Purdue Road School Steering Committee

2009 Official Purdue Road School Program

2009 Purdue Road School Attendance History

2009 Road School Speaker Contact List

Back to Basics: ADA 504 Legal Requirements
  Christine Cde Baca
  Lisa MacPhee
  Ken Woodruff

Back to Basics: ADA Design Criteria
  Brian Brown

Back to Basics: Design Flexibility
  Jeff Shaw

Back to Basics: Erosion Control
  Michelle Allen
  Janice Osadczuk
  Nathan Saxe

Back to Basics: Pavement Preservation
  Larry Galehouse
  David Peshkin

Back to Basics: Roundabouts
  Jeromy Grenard

  Ron Heustis/Tony Uremovich

Bicycle and Pedestrian Needs for Indiana
  Dawn Ritchie

Developments in Concrete for the Local Market
  Chris Tull

Emergency Management...Who to Call First
  Rosemary Petersen

Financing Issues
  Gary Eaton
  Mark Newland
Guess Who Owns Your LPA Project...You Do!
   Jodi Coblentz/Bob Tally/Mike Cline

Indiana Street Commissioners Meeting
   Karen Avery

Indiana's Historic Bridges: Choosing the Select
   Mary Kennedy/Patrick Carpenter

Invest Wisely...Management Transportation Assets
   Samuel Labi

Listen Up!
   Jeremy King

Local Road Safety Improvements
   Jeff Shaw

Local Traffic Engineering Studies
   Tom Ford

Maintenance Issues
   Tony McClellan
   Bob McCullouch

Managing to a Scope, Schedule and Budget and
New Concept: Designing to a Budget
   Shakeel Baig/Louis Feagans/
   Steven Boyer/Michael Rowe

One Can Never Be Too Safe
   Jennifer Pyrz

Opening Session
   Robert Tally
   Award Photos

Sustainability 102 and How It Applies to Roads and Streets
   Jeremy Kashman

The Customer Isn't Always Right
   Jeremy King

The Toll Road...Taking Care of Business
   Leigh Morris/Matt Pierce

To Break or Not to Break
   George Dremonas

Traffic Management and Operations
   Ken Voigt

Urban Issues – Branching Out
   Jennifer Gulick
   J. Paul Swartz
## 2009 Road School Steering Committee

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<tr>
<th>Name</th>
<th>Title</th>
<th>Organization</th>
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<tr>
<td>Lloyd Bandy</td>
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</tr>
<tr>
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</tr>
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<tr>
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E-mail: jajor@laportecounty.org
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
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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 of the severe rainfall, the transportation system experienced severe flooding and infrastructure failure. Flood water caused significant 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 Handshee, 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.
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.

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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- **Ronald Nordmeyer**  
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Nathan Saxe  Administrator, Ecology and Waterway Permits Section  INDOT  317 - 232 - 0240  nsaxe@indot.in.gov
Tom Harris  Field Engineer  INDOT  317 - 232 - 4910  tharris@indot.in.gov

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Back to Basics: Roundabouts

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Mike McBride  City Engineer  City of Carmel  317 - 571 - 2441  mmcbride@carmel.in.gov
<table>
<thead>
<tr>
<th>Back to Basics: Transmission of Electronic Construction Data</th>
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<tbody>
<tr>
<td>Dan Belcher</td>
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<tr>
<td>Douglas Townes, P.E.</td>
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<td>John Simmons PE</td>
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<td>Kimberly Arndt, P.E.</td>
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<tr>
<td>Ron Heustis</td>
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<td>Tony Uremovich</td>
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<thead>
<tr>
<th>Bicycle and Pedestrian Needs for Indiana</th>
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<tbody>
<tr>
<td>Dawn Ritchie</td>
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<tr>
<td>Meg Storrow</td>
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<tr>
<td>Mitch Barloga</td>
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<tr>
<td>Ray Irvin</td>
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<tr>
<th>County Highway Engineers and Supervisors</th>
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<tr>
<td>Patrick Faster</td>
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<tr>
<td>Sarah Yeager</td>
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<th>County Surveyors Meeting</th>
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<tr>
<td>Derek Fuller</td>
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<tr>
<td>Eric Banschbach</td>
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<td>Tony Wilson</td>
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<th>County-City Legal Issues</th>
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<tr>
<td>Grant Clapacs</td>
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## Dealing with Traffic Back-Ups and Clearing Accident Sites

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Organization</th>
<th>Phone</th>
<th>Email</th>
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<tbody>
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<td><a href="mailto:jsewell@idem.in.gov">jsewell@idem.in.gov</a></td>
</tr>
<tr>
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</tr>
<tr>
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<td>Major, Commander, Commercial Vehicle Enforcement Division</td>
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<td>317 - 431 - 1292</td>
<td><a href="mailto:tmelville@isp.in.gov">tmelville@isp.in.gov</a></td>
</tr>
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</table>

## Developing a Code of Ethics for Your Agency

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
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</tr>
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</tr>
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</table>

## Developments in Concrete for the Local Market

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Chris Tull</td>
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<td>317 - 270 - 4428</td>
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</tr>
<tr>
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<td><a href="mailto:jlarson@irmca.com">jlarson@irmca.com</a></td>
</tr>
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</table>

## Emergency Management… Who to Call First

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Organization</th>
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<tbody>
<tr>
<td>Gary Vandegriff</td>
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</tr>
<tr>
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<td><a href="mailto:rpetersen@dhs.in.gov">rpetersen@dhs.in.gov</a></td>
</tr>
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## Financing Issues

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Gary Eaton</td>
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</tr>
<tr>
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<td><a href="mailto:mark.newland@fhwa.dot.gov">mark.newland@fhwa.dot.gov</a></td>
</tr>
</tbody>
</table>

## Guess Who Owns Your LPA Project - You Do!!

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
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</tr>
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</table>

## Indiana Street Commissioners Meeting

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Organization</th>
<th>Phone</th>
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</tr>
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<tbody>
<tr>
<td>Karen Avery</td>
<td>Director of Communications</td>
<td>Association of Indiana Counties</td>
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<td><a href="mailto:kavery@indianacounties.org">kavery@indianacounties.org</a></td>
</tr>
</tbody>
</table>
### Indiana's Historic Bridges: Choosing the Select

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Mary Kennedy</td>
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</tr>
<tr>
<td>Patrick Carpenter</td>
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<td><a href="mailto:pacarpenter@indot.in.gov">pacarpenter@indot.in.gov</a></td>
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### Introducing Commuter Rail to Indiana

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Organization</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Erica Pugh</td>
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<td><a href="mailto:epugh@hntb.com">epugh@hntb.com</a></td>
</tr>
<tr>
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</tr>
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<td><a href="mailto:tjbeck@indygov.org">tjbeck@indygov.org</a></td>
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</table>

### Invest Wisely...Managing Your Transportation Assets

<table>
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<tr>
<th>Name</th>
<th>Role</th>
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<tbody>
<tr>
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</tr>
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</tbody>
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### Listen Up!

<table>
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<tr>
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<tbody>
<tr>
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<td>FlashPoint</td>
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</tr>
<tr>
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</table>

### Local Road Safety Improvements

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<tr>
<th>Name</th>
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<tr>
<td>Jeff Shaw</td>
<td>Safety/Design Engineer</td>
<td>FHWA Resource Center</td>
<td>708 - 283 - 3824</td>
<td><a href="mailto:jeffrey.shaw@dot.gov">jeffrey.shaw@dot.gov</a></td>
</tr>
<tr>
<td>Mike Holowaty</td>
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<td><a href="mailto:mholowaty@indot.in.gov">mholowaty@indot.in.gov</a></td>
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### Local Traffic Engineering Studies

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<tbody>
<tr>
<td>Drew Miroff</td>
<td>Partner</td>
<td>Ice Miller LLP</td>
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<td><a href="mailto:drew.miroff@icemiller.com">drew.miroff@icemiller.com</a></td>
</tr>
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<td><a href="mailto:Thomas.Ford@Jacobs.com">Thomas.Ford@Jacobs.com</a></td>
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### Maintenance Issues

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<th>Role</th>
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<tbody>
<tr>
<td>Bob McCullouch</td>
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</tr>
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<td><a href="mailto:tmcclellan@indot.in.gov">tmcclellan@indot.in.gov</a></td>
</tr>
</tbody>
</table>
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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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Nicole Thompson  
Transportation Engineer  
Opus International Consultants  
217 - 359 - 2222  
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Rita Black  
CCRPC/CUJATS Transportation Planning Manager  
Champaign County Regional Planning Commission  
217 - 328 - 3313  
rmorocoi@ccrpc.org

**Opening Session**

Mike Reed  
Commissioner  
INDOT  
317 - 226 - 7476  
mreed@indot.in.gov

Robert Tally  
Division Administrator  
FHWA Indiana Division  
317 - 226 - 7476  
Robert.Tally@dot.gov
<table>
<thead>
<tr>
<th><strong>Reducing Roadside Mowing with Vegetation Management</strong></th>
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<tbody>
<tr>
<td>Zach Lowe</td>
<td>Professor of Natural Resources; Adjunct</td>
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<thead>
<tr>
<th><strong>Roadway-Corridor Preservation</strong></th>
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<tbody>
<tr>
<td>Jim Olson</td>
<td>County Highway Engineer</td>
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<tr>
<td>Sarah Hubbard</td>
<td>Civil Engineer</td>
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<thead>
<tr>
<th><strong>Safety Data: Its Sources and Uses</strong></th>
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<tr>
<td>John Nagle</td>
<td>Safety Management Engineer</td>
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<tr>
<td>Pat McCarty</td>
<td>Supervisor of Work Zone Safety Section</td>
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<tr>
<td>Rick Drumm</td>
<td>Safety Engineer</td>
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<tr>
<th><strong>Sustainability 101 and How It Applies to Roads and Streets</strong></th>
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<tr>
<td>Jeremy Kashman</td>
<td>Project Manager</td>
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<tr>
<td>Luke Leising, AIA, PE</td>
<td>Sustainability Director</td>
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<tr>
<th><strong>The Customer Isn’t Always Right</strong></th>
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<tr>
<td>Jeremy King</td>
<td>Business Development Manager</td>
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<tr>
<td>Jill Palmer, PE</td>
<td>Project Manager</td>
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<tr>
<th><strong>The Toll Road…Taking Care of Business</strong></th>
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<tr>
<td>Leigh Morris</td>
<td>Deputy Commissioner, Toll Road Oversight</td>
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<td>Matt Pierce</td>
<td>Director of Communications &amp; Government Relations</td>
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<th><strong>To Break or Not to Break</strong></th>
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<tr>
<td>David Steiner</td>
<td>Deputy Attorney General</td>
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<tr>
<td>George A. Dremonas</td>
<td>Managing Attorney</td>
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<tr>
<td>Traffic Management and Operations - Indiana ITE</td>
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<tr>
<td>Name</td>
<td>Position</td>
</tr>
<tr>
<td>Darcy Bullock</td>
<td>Professor</td>
</tr>
<tr>
<td>Irv Lee</td>
<td>Public Works Director</td>
</tr>
<tr>
<td>Jay Grossman</td>
<td>Project Engineer</td>
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<td>Ken Voigt</td>
<td>President</td>
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<tr>
<td>Mike Scanlon</td>
<td>Traffic Design Engineer</td>
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<tr>
<td>Robert (Bob) Brooks, PE</td>
<td>National Design Manager - PB Sports</td>
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<th>Urban Issues - Branching Out</th>
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<tr>
<td>Name</td>
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<tr>
<td>J. Paul Swartz</td>
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<tr>
<td>Jennifer Gulick</td>
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<tr>
<td>Kevin Tungenwick</td>
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<td>Pamela C. Louks</td>
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<td>Rita McKenzie</td>
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<th>Utility Rule Update…One Year Later</th>
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<tr>
<td>Name</td>
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<tr>
<td>Chris Hammond</td>
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<td>Jim Shields</td>
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<td>Kenny Franklin</td>
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<td>Matt Thomas</td>
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<tr>
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<td>Dale Keep</td>
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