87th Annual Purdue Road School

March 20 & 21, 2001
Stewart Center • Purdue University

New this year register online at: www.purdue.edu/jtrp
### Road School At a Glance

#### Conference at a Glance

**87th Annual Purdue Road School**

**Tuesday, March 20**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>Road School Registration</td>
</tr>
</tbody>
</table>
| 8:30 - 10:00 | Opening Session  
  - Paving Your Highway to Success: Improving Your Supervisory Skills  
  - Site Manager  
  - New Developments in Funding Opportunities  
  - Pavement Issues  
  - ITS in Small Cities and Rural Areas  
  - Safety Issues  
  - Bicycle Facilities Design and Safety |
| 10:15 - 11:45 | City Engineers Meeting  
  - County Auditors Meeting  
  - County Commissioners Meeting  
  - County Highway Engineers and Supervisors Meeting  
  - Indiana Street Commissioners Meeting |
| 11:30 - 2:00 | County Surveyors Meeting  
  - Exhibitors Luncheon  
  - Purdue Memorial Union North/South Ballrooms |
| 1:30 - 3:00 | No Time Like the Present  
  - High Performance Concrete  
  - Miniature Design Production and Testing Center  
  - Transportation 2001  
  - MUTCD Millennium Edition Update  
  - Making the Right Decision  
  - Partnering: An Indiana Transportation Success Story |
| 3:15 - 4:30 | County Surveyors Meeting  
  - Exhibitors Luncheon  
  - Purdue Memorial Union North/South Ballrooms  
  - From Dull to Dynamic: Transforming Your Presentations  
  - Public Right-of-Way Issues  
  - Transportation 2001  
  - Concrete Construction Techniques  
  - Liability and Lawsuits  
  - MUTCD Millennium Edition Update |

**Wednesday, March 21**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>Road School Registration</td>
</tr>
</tbody>
</table>
| 8:30 - 10:00 | City Engineers Meeting  
  - County Auditors Meeting  
  - County Commissioners Meeting  
  - County Highway Engineers and Supervisors Meeting  
  - Indiana Street Commissioners Meeting |
| 10:15 - 11:45 | County Surveyors Meeting  
  - Exhibitors Luncheon  
  - Purdue Memorial Union North/South Ballrooms |
| 12:00 - 1:30 | County Surveyors Meeting  
  - All-day Session  
  - 3-Hour Session |
| 1:30 - 3:00 | County Surveyors Meeting  
  - Exhibitors Luncheon  
  - Purdue Memorial Union North/South Ballrooms  
  - All-day Session  
  - 3-Hour Session |
The Road School Team

**Road School Co-Chairmen**
Kumares Sinha, Director, Joint Transportation Research Program, Purdue University
Charles Scholer, Faculty Representative, Indiana LTAP, Purdue University

**Road School Co-Coordinators**
Karen Hatke, Program Coordinator, Joint Transportation Research Program, Purdue University
Tom Martin, Program Manager, Indiana LTAP, Purdue University

**Road School Associates**
Walt Land, Road School Liaison, INDOT
Bob McCullough, Information Technology Administrator, Joint Transportation Research Program, Purdue University
John Habermann, Research Engineer, Indiana LTAP, Purdue University
Linda McCormack, Editor and Resource Specialist, Indiana LTAP, Purdue University
Jim Turley, Project Manager, Indiana LTAP, Purdue University
Bob McCullough, Information Technology Administrator, Joint Transportation Research Program, Purdue University
Karen Hatke, Program Coordinator, Joint Transportation Research Program, Purdue University
John Habermann, Research Engineer, Indiana LTAP, Purdue University
Walt Land, Road School Liaison, INDOT
Bob McCullough, Information Technology Administrator, Joint Transportation Research Program, Purdue University

**2001 Road School Steering Committee**
Lloyd Bandy, Asphalt Pavement Association
Paul Berebicki, Indiana Constructors, Inc.
John Burkhardt, City of Indianapolis Department of Public Works
Mike Byers, Indiana Chapter, American Concrete Pavement Assoc.
Terry Byrma, INDOT/Seymour District
John Crist, LaGrange County Engineer
Merril Dougherty, INDOT Design Division
Allen Eglêmez, United Consulting Engineers & Architects
Steve Fehrbach, A & F Engineering Co., LLC
Jeff French, Ripley County Surveyor
Bill Haan, Indiana Association of County Commissioners
Bill Sipes, Indiana Assoc of County Commissioners
Patti Smith, Fountain County Auditor
Jim Ude, INDOT/Seymour District
Garry Warren, City of Brazil Street Commissioner
Kate Weese, City of Carmel Engineer
Rick Whitney, INDOT Chief Financial Officer
Jim Ude, Mayor of City of Bedford

Road School Agenda

**Tuesday**
**March 20**

**General Session**

8:30-10:00
Room: Loeb Theatre

Presider: Kumares Sinha,
Co-Chairman, Purdue Road School,
& Director, Joint Transportation Research Program,
Purdue University

Cristine Klika, Commissioner, INDOT
George Ostensen, Director, Midwest Resource Center, FHWA

**Concurrent Sessions**

Paving Your Highway to Success: Improving Your Supervisory Skills

10:15-11:45
Room: 306

This interactive workshop will help you to better establish your presence as a supervisor. You will learn how to apply proven techniques in the important supervisory skills — motivating, delegating, coaching, and counseling.

Dan Lybrook, Associate Professor, Organizational Leadership and Supervision, Purdue University
Tuesday March 20

Concurrent Sessions

SiteManager® Overview and Status Update
10:15-11:45
Room: 311
Presider: Jim Nugent, Chief, Systems Technology Division
This presentation will consist of an overview of SiteManager and its implementation at INDOT, including a brief demo of the first INDOT pilot contract.
Jim Snyder, Construction Systems Manager, Systems Technology Division, INDOT
Rick Yunker, Construction Field Engineer, Contracts and Construction Division, INDOT
Deb Hood, Project Supervisor, Crawfordsville District, INDOT

Intelligent Transportation Systems in Small Cities and Rural Areas
10:15-11:45
Room: 218 C-D
Presider: Darcy Bullock, Associate Professor, School of Civil Engineering, Purdue University
This presentation will be an overview of ITS and its rural deployment implications and implementation. Weather-related ITS applications will also be discussed.
Steve Beningo, Rural ITS Specialist, Midwestern Resource Center, FHWA

Pavement Issues
10:15-11:45
Room: 214 A-B
Presider: Dave Andrews, Materials Engineer, Materials and Test Division, INDOT
Cold-In-Place Recycling for Urban and Rural Construction
(New Technology and Process Controls to Facilitate Cost Effective Asphalt Recycling)
David Rose, Sales Manager, MSO Construction
Maximizing Pavement Life for County Subdivisions
Jason LaCroix, Sales Engineer, Contech Construction Products
Duane Alverson, Highway Engineer, Lake County

Safety Issues
10:15-11:45
Room: 314
Presider: John Nagle, Safety/Congestion Management Engineer, Program Development Division, INDOT
Leadership Team for Surface Transportation Safety in Indiana
Karen Mathis, Safety Engineer, FHWA-Indiana Division
Aggressive Driving
Karen Mathis, Safety Engineer, FHWA-Indiana Division
Sgt. David Murray, Indiana State Police
Sgt. Shana Kennedy, Indiana State Police
Road School Agenda  

**Tuesday March 20**

**Concurrent Sessions**

**New Developments in Funding Opportunities**

10:15-11:45
Room: 302

*Presider: Rick Whitney, Chief Financial Officer, INDOT*

*Local Federal Funds 2001 - Rules and Discussion*
Gary Eaton, Chief, Policy and Budget Division, INDOT
Tim Miller, Scheduling Manager, Policy and Budget Division, INDOT
Laura Monk, MPO Financial Liaison, INDOT

*INSTIP (Indiana’s Statewide Transportation Improvement Plan)*
Tim Miller, Scheduling Manager, Policy and Budget Division, INDOT

*Indiana State Gas Tax: Where Does It Go?*
Chris Kubik, Economist, Policy and Budget Division, INDOT

**Bicycle Facilities Design and Safety**

10:15-11:45
Room: 320

*Presider: Connie Szabo Schmucker, Executive Director, Indiana Bicycle Coalition*

This session will focus on design and safety considerations for bicycle lanes and shared use paths.

David Noyce, Professor of Civil and Environmental Engineering, University of Massachusetts

**Exhibitors Luncheon**

11:00–2:00 p.m.

NorthSouth Ballrooms

All participants are invited to enjoy an expanded luncheon featuring a buffet provided by the participating exhibitors. Your name badge is required for admission.

**Concurrent Sessions**

**No Time Like the Present**

1:30 – 3:00
Room: 306

This program will focus on how to maximize our most important commodity... TIME. Participants will assess their time management habits and tips for managing time will be discussed.

*Cindy Brewer, Organization and Career Development Consultant, Personnel Services, Purdue University*

**Back to Basics - High Performance Concrete: Material Design, Production and Testing**

1:30–4:30
Room: 214 A-B

Higher strength concrete has become more widely used in transportation over the last two decades and this workshop will provide an overview of its use, as well as basic principles for material selection, mixture design, placement, curing, and testing procedures.

*Jan Olek, Associate Professor and Director of North Central Superpave Center, School of Civil Engineering, Purdue University*

*Jason Weiss, Assistant Professor, School of Civil Engineering, Purdue University*
Road School Agenda

Tuesday
March 20

Concurrent Sessions

Environmental Issues - .3 CEU
1:30-4:30
Room: 218 C-D
Presider: Phyllis Hockett, Manager of Environmental Services, Engineering, Environment, and Planning Division, INDOT

Non-Regulated USTs
Max Michael, Chief, Emergency Response Section, IDEM
Roy Harbert, Senior Environmental Manager, Leaking Underground Storage Tanks Section, IDEM
Ann Black, Senior Special Projects Manager, Remediation Branch, IDEM

Wetland Mitigation - Past, Present, and Future
Steve Sperry, Environmental Scientist, Environmental Assessment Section, INDOT

Break 3:00 - 3:15

Effective Stormwater Quality Management for Transportation Agencies and Municipalities
Lori Gates, Stormwater Coordinator, Office of Water Quality, IDEM
Jon Stoiz, PE, Christopher B. Burke Engineering, LTD.

Innovations in Equipment
1:30-4:30
Room: 318

Presider: Larry Campbell, Fleet Manager, Allen County

2010 and Beyond: Construction and Equipment Trends
Richard Diestelhorst, Product Consultant, Caterpillar Inc.

Weight Distribution and What the Future Holds for Trucks
Keith Strutzenberg, Volvo Trucks of Indianapolis and Fort Wayne

Break 3:00 - 3:15

What's New in Snow and Ice Equipment?
Glenn Beck, Sales Representative, Henderson Manufacturing Co.

Applications of Robotics Technology to Construction and Maintenance Equipment
M.J. Skibniewski, Professor, School of Civil Engineering, Purdue University
Tuesday
March 20
Concurrent Sessions

Traffic Issues/Institute of Transportation Engineers - .3 CEU
1:30-4:30
Room: 314
President: Paul Satterly, PE, President, Indiana Section ITE, and Transportation Engineer, HNTB Corp.
Management and Operation of Transportation Systems
Steven Gayle, International President, ITE
Automated Detection and Classification of Bicycles and Pedestrians
David Noyce, Professor of Civil and Environmental Engineering, University of Massachusetts
Introduction to the New INDOT Work Zone
Safety Handbook
John Habermann, Research Engineer, Indiana LTAP, Purdue University
Illinois Department of Transportation, Traffic Signal-Railroad Interconnects
Yogesh Gautam, Traffic Operations Engineer, Illinois DOT
Issues with Advance Train Preemption of Traffic Signals
Tom Urbanik, Associate Director, Texas Transportation Institute

Land Use in Rural Planning - .3 CEU
1:30-4:30
Room: 320
President: Mark Spelbring, Extension Land Use Specialist, Agriculture Economics Department, Purdue University
Overview of Land Use Topics and Land Use Education for Local Officials
Mark Spelbring, Extension Land Use Specialist, Agriculture Economics Department, Purdue University
Fiscal Impacts of Development
Larry DeBoer, Local Government Finance Specialist, Agriculture Economics Department, Purdue University
Break 3:00 - 3:15
Planning with POWER (Protecting Our Water and Environmental Resources)
Bob McCormick, Extension Specialist, Forestry Department, Purdue University
The Rural/Urban Conflict
Rick Chase, District Director, Extension Services, Purdue University

The Break Room at the Stewart Center will be available for conference participants on Tuesday and Wednesday from 8:30 a.m. to 5:00 p.m.
Concurrent Sessions

Tuesday
March 20

Maintenance Issues
1:30-4:30 p.m.
Room: 302
Presenter: Terry Byrns, Operations Engineer, Seymour District, INDOT
Roadside Vegetation Management Program
(Alternative Methods and INDOT's Practical Application of One in Seymour)
Michael Dana, Professor, Department of Horticulture, Purdue University
Chris Dillman, Landscape Architect, Seymour District, INDOT
Statewide Communications System Update
Lewis Hartman, Communications Specialist, INDOT
Prepackaged Creosote Salt Storage Buildings
Mike Hougland, Safety Coordinator, Seymour District, INDOT
INDOT Building and Grounds Program
Steve McAvoy, Facilities Manager, Operations Support Division, INDOT
Break 3:00 - 3:15
INDOT Winter Operations Team
Dennis Belter, Program Support Manager, Operations Support Division, INDOT
Anti-Icing with Caliber M-1000
Pat Condon, Roadway Maintenance Superintendent, Toll Road District, INDOT
Anti-Icing/De-Icing with Salt Brine
Tom Konieczny, Operations Engineer, LaPorte District, INDOT

Making the Right Decisions
3:15-4:30
Room: 306
Making the right decision means knowing the customer's priorities and constantly looking for ways to improve our product. This session will describe the steps of good decision making and how they can make you more effective in delivering your program.
John Baxter PE, Division Administrator, FHWA Indiana Division
Jay DuMontelle, Financial Specialist, FHWA Indiana Division

Partnering - An Indiana Transportation Success Story
3:15-4:30
Room: 311
This session will explain the "partnering" process and how to successfully utilize it to construct high quality projects in a non-adversarial, low stress, fun fashion.
Steve Schneider PE, President-Owner, White Knight Services
Road School Agenda

Wednesday
March 21

Associations Meetings

County Highway Engineers and Supervisors Meeting

8:30-10:00
Room: 306
President: John Crist, President, IACHES

County Auditors Meeting

8:30-10:00
Room: 318
President: Sharon Duke, President, ICAA

County Commissioners Meeting

8:30-10:00
Room: 314
President: Karen Pennington, President, IACC

Indiana Street Commissioners Meeting

8:30-10:00
Room: 218 A-D
President: Garry Warren, President, ISCA

City Engineers Meeting

8:30-10:00
Room: 214 A-B
President: Kate Weese, City Engineer, City of Carmel

County Surveyors Meeting

8:30-4:30
Room: 310
President: Jeff French, President, ICSA

Street Funding
John Habermann, Research Engineer, Indiana LTAP, Purdue University
Wednesday
March 21

Associations Meetings

INDOT Meeting
8:30-12:00
Room: 302

Presider: Richard Smutzer, Chief Engineer, INDOT

Garrett Railroad Underpass Project
This will be a panel discussion of the successful resolution of the problems of this restricted project for high-speed trains.

Panel Moderator: Jim Keeler, Construction Engineer, Fort Wayne District, INDOT

John Passey, District Director, Fort Wayne District, INDOT
Herbert Kleeman, Mayor, City of Garrett
Judy Congdon, President, Congdon Engineering Associates
Randy Henderson, Manager, Bridge Department, Congdon Engineering Associates
Keith Lytton, Project Representative, Congdon Engineering Associates
Mike Motil, Project Manager, S.E. Johnson Contractors

Smoothness Awards
Tim Bertram, Chief, Contracts and Construction Division, INDOT

Break 10:00 - 10:15

Implementation of Bentley Microstation CAD at INDOT
Tony Elliott, Applications Consultant, Bentley Transportation

The Right Tree Right Place Program
Pam Louks, Urban Forestry Coordinator, IDNR

County Issues Round Table
10:15-11:45
3rd Floor, Stewart Center
There will be facilitated open discussions of the following issues of interest to county officials, including commissioners, auditors, engineers, and supervisors. Just follow the signs in various locations on the 3rd Floor of Stewart Center and feel free to come and go during the discussions.

Bridge Inspection Load Rating
Property Appraisals for Purchasing of Right-of-Ways
Public Construction Issues
Highway Funding

City Issues Round Table
10:15-11:45
2nd Floor, Stewart Center
There will be facilitated open discussions of the following issues of interest to city and town officials, including mayors, city engineers, and street commissioners. Just follow the signs in various locations on the 2nd Floor of Stewart Center and feel free to come and go during the discussions.

Public Construction Issues
Street Funding
Utility Relocation Procedures
Downtown Traffic and Parking Issues
Road School Agenda

Wednesday
March 21

Concurrent Sessions

Public Right-of-Way Issues
1:30-3:00
Room: 306

Presider: Gregg Budd, President, HGI-Landacq Consulting

Right-of-Way Acquisition... the Moving Target
Gregg Budd, President, HGI-Landacq Consulting

Public R/W: ITE's Investigation of Bicycle and Pedestrian Facility Needs
David A. Noyce, Professor of Civil and Environmental Engineering, University of Massachusetts

Rails to Trails - What Are Your Rights?
Gregg Budd, President, HGI-Landacq Consulting

Transportation 2001
1:30-3:00
Room: 218 A-B

Presider: Larry Goode, Chief, Multi-Modal Division, INDOT

Indiana Public Transit
James English, Rural Transit Program Manager, Multi-Modal Division, INDOT

High Speed Rail in Indiana: An Update
Tom Beck, Rail Planner, Multi-Modal Division, INDOT
From Dull to Dynamic: Transforming Your Presentations

1:30-3:00
Room: 214 A-B
Whether you speak in public rarely or often, you will gain valuable ideas from this session to improve your next speech. Lots of examples and practical tips will be packed into 90 minutes.
Josh Boyd, Assistant Professor, Department of Communication, Purdue University

Highway Administration and Management

1:30-4:30
Room: 302
Presider: John Caton, Executive Vice President, Gove Associates, Inc.
Administration and Management of Local Street and Roads: Revising the 1988 Road and Street Manual
Jim Turley, Project Manager, Indiana LTAP, Purdue University
Nicole Woodward, Graduate Assistant, Indiana LTAP, Purdue University
GASB 34: The Impact of a Recent Accounting Change on State and Local Highway Departments
William Lantz CPA, Deputy Auditor-Operations, State of Indiana
Asset Management by LPA's
Tom Sturmer PE, Senior Project Manager, The Schneider Corporation
INDOT's Asset Management Program
John Weaver, Chief, Program Development Division, INDOT

Context Sensitive Design: A European Perspective and Basic Concepts - .3 CEU

1:30-4:30
Room: 311
Presider: Firooz Zandi, Chief, Materials and Tests Division, INDOT
This session will explore basic context sensitive design issues, including functional classification, safety, and the integration of community values into the project development process. It will also present lessons learned from the FHWA/AASHTO Scanning Tour for Geometric and Content Sensitive Design held in Europe last spring.
Sandra Otto PE, Division Administrator, FHWA-Arkansas Division
Dr. Nikiforos Stamatiadis PE, Associate Professor, University of Kentucky

1:30-4:30
Room: 218 C-D
This session will discuss hand calculations, nomographs and the HY-8 computer model for performing culvert hydraulics. INDOT's culvert sizing policy will also be discussed.
David D. Finley, PE, Hydraulics Engineer, Design Division, INDOT
Merril E. Dougherty, PE, Hydraulics Engineering Supervisor, Design Division, INDOT
Wednesday  
March 21

Concurrent Sessions

Applications of GIS in Transportation - .3CEU
1:30-4:30
Room: 314
Presider: David Mockert, Administrator, City of Indianapolis/Marion County GIS
Use of GIS in Municipal Transportation
Rick Petrecca, Senior GIS Analyst, City of Indianapolis-Marion County GIS
Developing a GIS for INDOT
Mike Andrews, Graphics Engineer, Systems Technology Division, INDOT
Use of GIS in Indiana's Fastest Growing County
Larry Stout, GIS Manager, Hamilton County
Address Issues, Data Standards, and Sharing of GIS Data
Andrew S. Harrison, GIS Business Manager, The Schneider Corporation

Concrete Construction Techniques
3:15-4:30
Room: 214 A-B
Attend this session to learn some of the tips, tricks, and traps of ordering, placement, finishing, and curing concrete for common highway department uses.
Mike Byers, Executive Director, Indiana Chapter, American Concrete Pavement Association

Liability and Lawsuits
3:15-4:30
Room: 306
Presider: Gary Eakin, Town Manager, Danville, Indiana
This session will focus on minimizing transportation liability in your county, town or city and will be especially useful if you are a county commissioner, mayor, or town manager.
Jan Keefer, Esquire, McHale, Cook and Welch, PC.

MUTCD Millennium Edition Update
3:15-4:30
Room: 218 A-B
Presider: Dennis Lee, ITS Engineering, FHWA-Indiana Division
The new MUTCD incorporates technological advances and applications, as well as improved overall organization of the document. This session will highlight the major changes in the MUTCD and their effect on local highway agencies.
Dennis Lee, ITS Engineer, FHWA-Indiana Division
Carl Tuttle, Traffic Specialist Engineer, Operations Support Division, INDOT