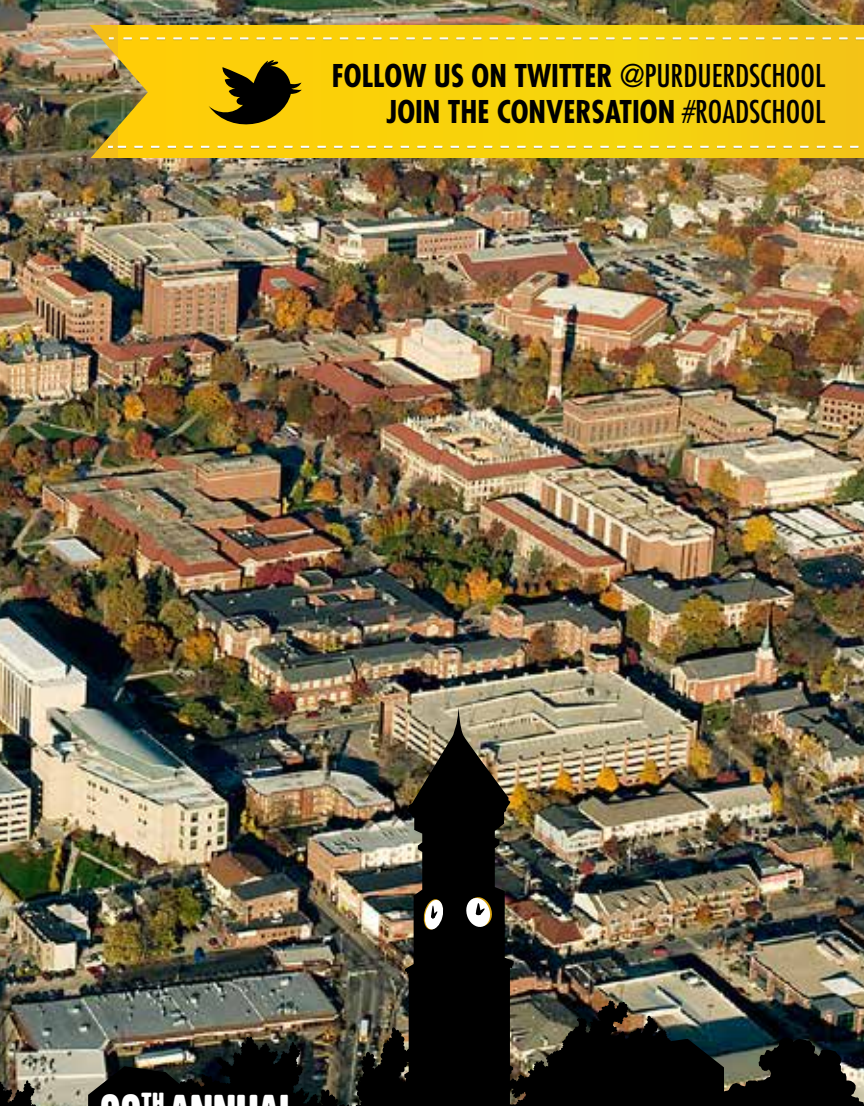




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**99TH ANNUAL
PURDUE ROAD SCHOOL**

MARCH 5-7, 2013
Stewart Center
Purdue University
West Lafayette, Indiana

EA/EOU

PURDUE
UNIVERSITY

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Unfinished Block P, Purdue University

Welcome to the 99th Annual Purdue Road School

This 99th Purdue Road School builds on 101 years of tradition dating to 1913, when Professor W.K. Hatt organized a Civil Engineering conference. A similar conference was held in 1914 at which a resolution was passed which called for a provision in the laws of Indiana that there be a yearly School of Good Roads. In 1915 the name of the Civil Engineering Conference was changed to the Purdue Road School.

This year's program has 138 Sessions organized in 24 tracks that were developed in collaboration with colleagues throughout the industry. Behind the scenes a substantial number of volunteers and professionals have been involved in developing the technical program, volunteering their time to prepare presentations, and coordinating the logistics. In fact there are over 380 individuals listed in the technical program. Those individuals that deliver the sessions are the foundation of the Purdue Road School.

We are pleased not only by the technical content that has been developed, but also by the rich history of the Purdue Road School. Many of you helped shape much of the signature Indiana transportation infrastructure or were personal friends of the previous Purdue Road School leaders. As you page through this outstanding technical program, please take a moment to reflect on the contributions of our predecessors in building the transportation infrastructure and defining the Purdue Road School that serves Indiana today.

Darcy M. Bullock, Ph.D., P.E.

Professor of Civil Engineering and Director of the Joint Transportation Research Program, Purdue University

John E. Haddock, Ph.D., P.E.

Associate Professor of Civil Engineering and Director of the Indiana Local Technical Assistance Program, Purdue University

Tuesday

Coffee with the Exhibitors

Tuesday, March 5, 2013

7:00 a.m. – 8:45 a.m.

North and South Ballrooms

Purdue Memorial Union

A black starburst graphic with a jagged edge, containing the text "New in 2013" in white.

**New in
2013**

Opening Session

Loeb Theater, Stewart Center

(see adjacent page for details)

Exhibitor Luncheon

Tuesday, March 5, 2013

11:00 a.m. – 1:50 p.m.

North and South Ballrooms

Purdue Memorial Union

The annual exhibitor luncheon provides an opportunity for attendees to visit with the exhibitors and enjoy a sandwich buffet lunch. Name badges are required for admission. Participating exhibitors are listed on the back cover and page before the map of this program.

Student Poster Luncheon Exhibit

Tuesday, March 5, 2013

11:00 a.m. – 1:50 p.m.

Adjacent to the South Ballroom (in the Southwest corner of the Purdue Memorial Union), students will be exhibiting posters showing recently completed research activities. Please take this opportunity to visit with the students and learn about emerging innovations in transportation.

Evening Welcome Reception

Tuesday, March 5, 2013

5:00 p.m. – 7:00 p.m.

Four Points Sheraton

Purdue Road School attendees are invited to attend the Welcome Reception sponsored by the vendor friends of Road School. The reception will be at the Four Points Sheraton-West Lafayette Hotel, 1600 Cumberland Avenue, West Lafayette.

Tuesday

OPENING SESSION

Tuesday, March 5, 2013

9:00 a.m. – 11:00 a.m.

Loeb Theater, Stewart Center

Welcome

Darcy Bullock, Joint Transportation Research Program
Director, Purdue University

Suresh Garimella, Associate Vice President for
Engagement, Purdue University

Karen Bobo, Acting Indiana Division Administrator,
Federal Highway Administration

Keynote Speakers

Lloyd Winnecke, Mayor
City of Evansville

Jerry Wray, Director
Ohio Department of Transportation

Michael B. Cline, Commissioner
Indiana Department of Transportation

Indiana Partnership for Transportation Quality Awards Recognition

Mark Miller, Chief Engineer
Indiana Department of Transportation

Master Road Builder Recognition

John Haddock, Local Transportation Assistance Program
Director, Purdue University

Question and Answer Panel

Adjourn

After the audience adjourns,
award recipient pictures will be taken on stage.

Wednesday

The Indiana County Surveyors Association

Wednesday, March 6, 2013

8:30 a.m. – 4:50 p.m.

East Faculty Lounge (FACE)

Road School Luncheon

Wednesday, March 6, 2013

11:00 a.m. – 1:00 p.m.

North & South Ballrooms

Purdue Memorial Union

Mark Brown, a Valparaiso, Indiana, native and 1973 Purdue Alumnus, will be the Purdue Road School Luncheon Speaker.

Tickets are sold in advance. A limited number of \$20 tickets may be released at 10:00 a.m. the day of the luncheon.

Please inquire at the Road School Registration desk adjacent to the South Ballroom, Purdue Memorial Union.

Evening ITE Banquet

The Institute of Transportation Engineers (ITE) Annual Scholarship Banquet is scheduled for Wednesday, March 6th, at the Dauch Alumni Center in West Lafayette from 5:30 p.m. – 8:00 p.m. Advance sale tickets are required for attendance. For additional information please see <http://www.indianaite.org/>.

Luncheon Speaker



Mark N. Brown

Mark Brown has enjoyed a distinguished career as a United States Air Force (USAF) fighter pilot, engineer, National Aeronautics and Space Administration (NASA) astronaut, NASA manager, and corporate manager. His unique combination of operational, technical, and managerial experience has made him an invaluable asset to the Air Force, NASA, and the corporations he has worked for. After a 20 year career with the Air Force that included two trips to space on the space shuttle, he joined industry and has worked for a series of corporations in increasing roles of responsibility. Mr. Brown is now an aerospace consultant.

Building and maintaining Indiana's transportation system takes teamwork from a variety of local, county, state, and government officials as well as contractors, engineers, and suppliers. The space program has a similar portfolio of diverse stakeholders that must collaborate on large multi-year projects. Mr. Brown will talk about teamwork and leadership lessons in his address entitled *The Road to Space*.

Thursday

Associations' Breakfast and Business Meeting

An important tradition of Purdue Road School is the participation of our Association partners and friends. Day 3 of the Purdue Road School provides a venue for the working meetings of the following associations:

- Indiana Association of County Commissioners (IACC)
- Indiana Association of City Engineers (IACE)
- Indiana Association of County Highway Engineers and Supervisors (IACHES)
- Indiana Street Commissioners Association (ISCA)
- American Traffic Safety Services Association (ATSSA)

The Indiana County Surveyors Association will meet from 8:30 a.m. to 4:50 p.m. on Wednesday, March 6, in the East Faculty Lounge (FACE) in the Purdue Memorial Union.

Members of all Associations and other Road School attendees are invited to the Association Breakfast at 8 a.m. on Thursday, March 7. Following the breakfast and a joint session, each Association will convene for their own meeting in the Stewart Center.

Thursday Agenda

- 8:00 a.m. Gathering and Breakfast Buffet
- 8:15 a.m. Welcome
- 8:30 a.m. "Managing the Change Transition",
Dr. Tom DeCoster, Executive Director
American Association of State Highway and
Transportation Officials (AASHTO)
National Transportation Leadership Institute
- 9:30 a.m. Association meetings in Stewart Center

GENERAL INFORMATION & RESOURCES

Registration and Information Desk

To better accommodate the growing attendance at the Purdue Road School (almost 2400 participants last year), the registration desk has been relocated to the Southwest Corner of the Purdue Memorial Union adjacent to the ballrooms.

Smoke-Free Policy

Smoking is not permitted on campus except in a limited number of designated areas. Smoking can occur outside of the southwest corner of Purdue Memorial Union and the southeast corner of Stewart Center. For more information on the policy, including a map of the designated smoking areas, see www.purdue.edu/smokefree.

Partnership with Purdue ITAP

Complimentary wireless internet is provided by Purdue ITAP.

For wireless internet service during the conference, select SSID “Purdue Guest Network” To log in, please enter the ID “g1005326” and the password “Road2013”. Next you will need to open a web browser and enter a valid email address.

Indiana LTAP Directories

Visit Indiana LTAP in Stewart Room 213 to receive a free print copy of LTAP’s 2013 Directory of Indiana State, County, City, and Town Officials. Electronic copies of the directory will also be available to download from the LTAP website (www.purdue.edu/inltap). New this year, Indiana LTAP will release an app for accessing a searchable directory via smartphone. More information about this directory app will be available on the LTAP website.

JTRP and Technical Reports and Newsletter

Many speakers and moderators participated in either the Joint Transportation Research Program, or its predecessor, the Joint Highway Research Program (JHRP). In partnership with the Purdue Libraries, there are over 1500 technical reports dating to 1955 available online at <http://docs.lib.purdue.edu/jtrp/>. As of February 2013, those reports have been downloaded over 480,000 times in the past 6 years.

If you are interested in receiving updates as new implementation activities occur, please use the following URL <http://eepurl.com/vfz2T> or adjacent QR Code to sign up.

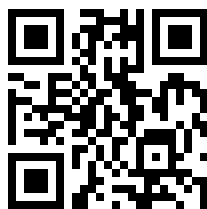


Partnership with Purdue Library

In 2011 we began digitally archiving Road School presentations with authors' permission in the Purdue Library open access repository called e-pubs. You may access presentations from the following URL: <http://docs.lib.purdue.edu/roadschool/>.

2013 Road School presenters can stop by the Purdue Library exhibit area on the second floor of Stewart Center to submit their presentations either before or after their session. The archived presentations provide a valuable resource after Road School is concluded.

As an example of the impact these archived presentations have, below is a table of the top 5 downloaded presentations from the 2011 and 2012, as of February 2013.



2011 Purdue Road School Top 5 Downloaded Presentations

Presentation & Author(s)	Number of Downloads
Culvert Slip Lining: Scott Brown , CPI Supply; Darin Duncan , CPI Supply; Steven Ritzler , INDOT; Sam Martin , INDOT	890
Accelerating Bridge Construction (ABC) with Prefabricated Bridge Elements & Systems (PBES): Keith Hoernschemeyer , FHWA	402
Proper Design Details for PCC Pavement Performance: Mike Byers , American Concrete Pavement Association	379
LPA Certification Training: Dan Keefer , FHWA	293
Concrete Pavement: Selections of Concrete Materials: Jerry Larson , Indiana Ready Mix Concrete	275

2012 Purdue Road School Top 5 Downloaded Presentations

Presentation & Author(s)	Number of Downloads
Traffic Signal Advance Pre-Emption Design within 200 Feet of Active Railroad Crossings: Gregory Richards , INDOT	143
Dynamic Cone Penetrometer (DCP): Nayyar Zia Siddiki , INDOT	133
Roundabout Design 101: Principles, Process and Documentation, Part 1: Troy Pankratz , Ourston Roundabout Engineering	111
Pavement Preservation for Elected Officials: The Inside Story of Pavement Deterioration: Jim Olson , Jefferson County	87
Roundabout Design 101: Principles, Process and Documentation, Part 2: Troy Pankratz , Ourston Roundabout Engineering	84

Partnership with Purdue Extended Campus and Documentation of Professional Development Activities

Purdue's Extended Campus Conference Division is a critical partner in the event planning logistics, registration, and production of Purdue Road School.

Professional Development Hours (PDH)/Continuing Education Units (CEU) are available for many sessions. PDH/CEU's are a standardized, nationwide method of recognition for participation in approved, noncredit educational activities. Attendance at the entire session is required for credit. Details regarding PDH/CEU eligibility are provided with the session descriptions.

In order to register for PDH/CEU credit you must have a name badge. A bar code on your name badge will be scanned as you enter each eligible session. The PDH/CEU that you obtain at this conference will be registered with Purdue University Extended Campus free of charge. To obtain a transcript, you may request one for a fee of \$6. A PDH/CEU help desk will be available at the Registration desk in the Purdue Memorial Union for those who have questions or who wish to purchase a transcript.

Please note: Recordkeeping for your PDH/CEU requirements is your responsibility. You **MUST** have your name badge scanned for the PDH/CEU to be registered with Purdue University. Purdue will not be able to provide verification of your attendance at a later date if you did not scan your badge for each session attended. No PDH/CEU credit will be awarded once the conference has ended.

Partnership with Greater Lafayette CityBus

Greater Lafayette CityBus has partnered with the Purdue Road School to provide complimentary transportation on their 1B line as well as their Trolley service. To receive this benefit, tell the driver you are attending the Purdue Road School.

If you are staying at the Four Points by Sheraton (formerly University Inn), you can take the "1B" bus to campus. The schedule for the "1B" service is shown at <http://tinyurl.com/RS-BUS-1B>.

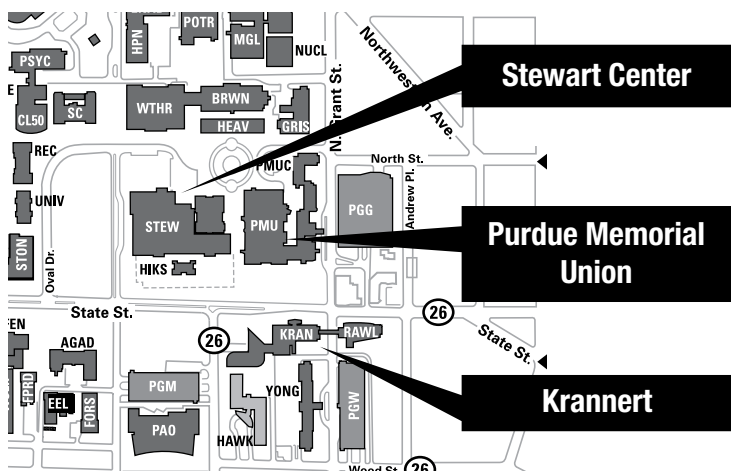
If you are staying downtown (Holiday Inn-City Center or Hilton Garden), you can take the trolley service to campus. The schedule for the trolley service is shown at <http://tinyurl.com/RS-Trolley>

MEETING LOCATIONS

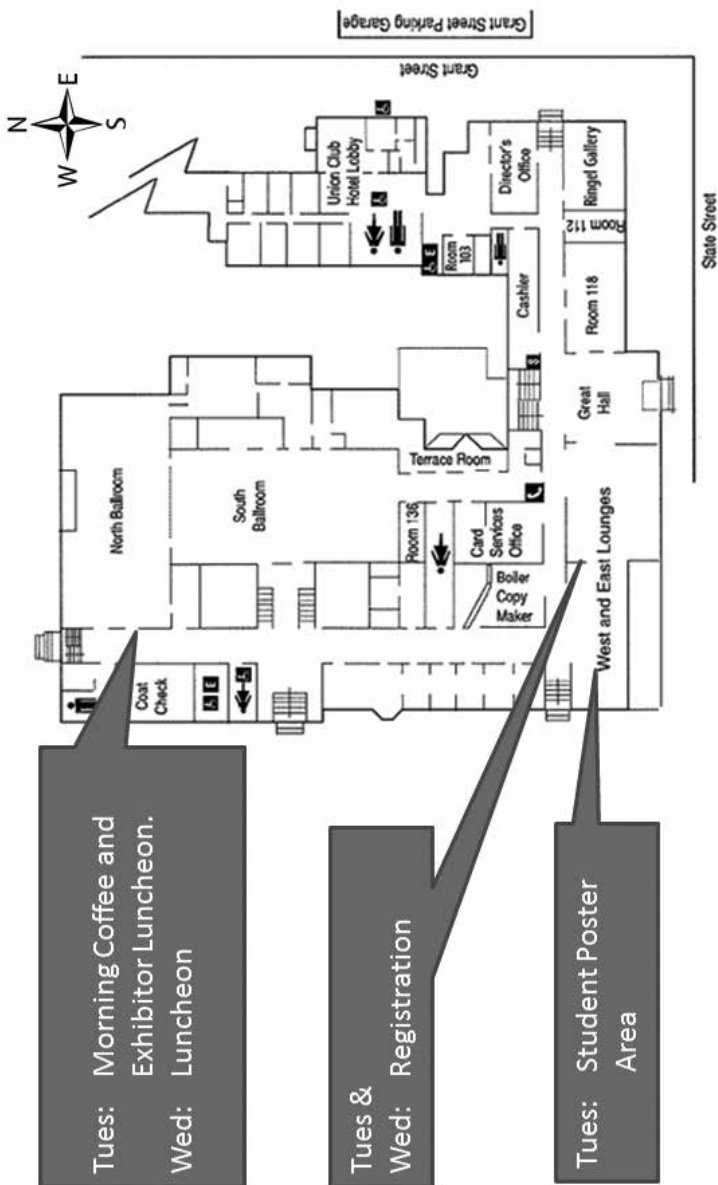
The Purdue Road School attracts over 2300 participants to campus. Most of the activities are held in one of the following locations:

- Purdue Memorial Union
 - North and South Ballrooms.
 - East and West Faculty Lounge. These are on the second floor and designated FACE and FACW in the Technical Program section.
- Stewart Center. This is located to the West of the Purdue Memorial Union. This is designated as STEW in the Technical Program section.
- Fowler Hall is on the first floor of Stewart. This is designated as Fowler in the Technical Program section.
- Loeb Theater is connected to Stewart on the first floor. This is designated as Loeb Theater in the Technical Program section.
- Road Scholar courses will be held in the Krannert Auditorium.

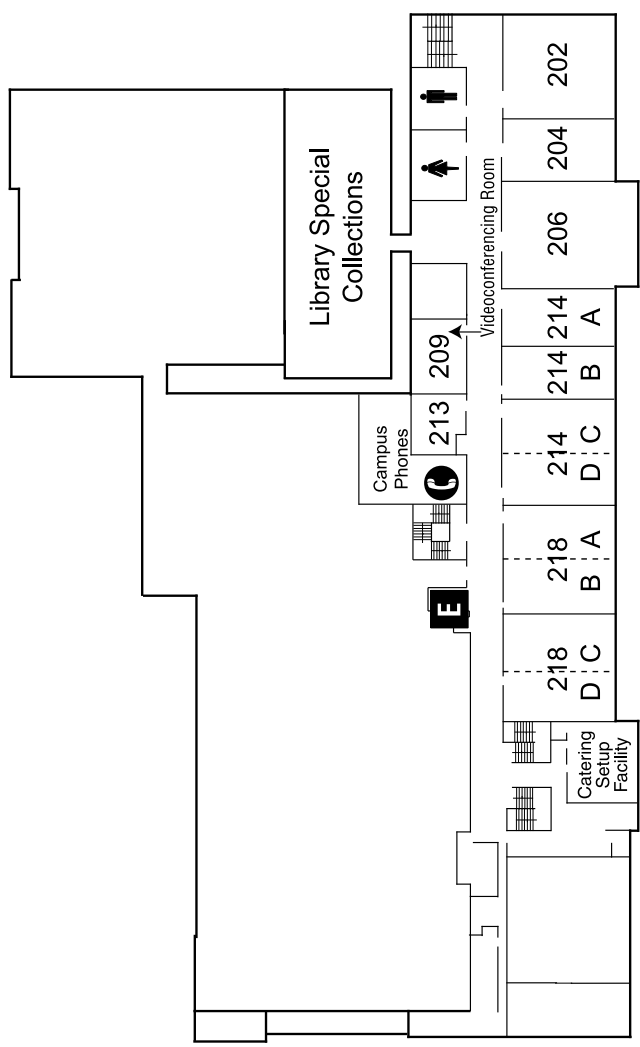
Maps showing the location of the rooms in these building are on the following pages.



PURDUE MEMORIAL UNION



SECOND FLOOR STEWART CENTER



E

Elevators

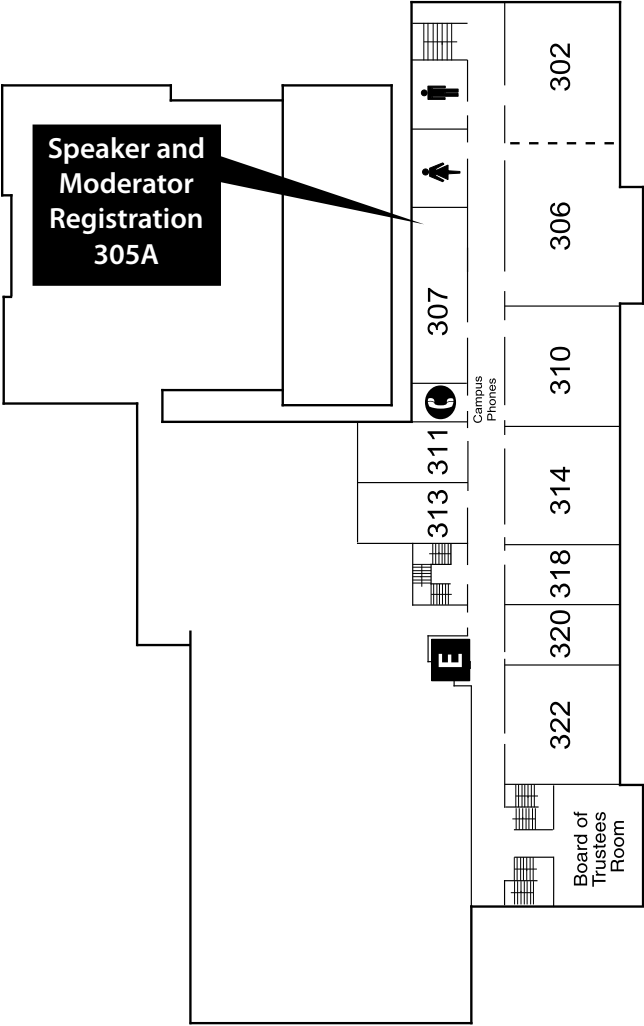
Restrooms

Wheelchair Accessible

Phones

ATM's

THIRD FLOOR STEWART CENTER





ROAD SCHOLAR PROGRAM

The Road Scholar program was established as a core body of knowledge necessary to perform the duties of a local transportation official. Participants attend twelve core courses and elective conferences and workshops to accrue credit hours. The value of actual on the job work experience is recognized and is given credit at the rate of 30 credits for each year of experience (300 credit hours is the maximum allowed for work experience).

Once the twelve courses are completed and 300 credit hours have been obtained, participants are presented with the award of **“Road Scholar”**.

“Master Road Builder” is awarded once 600 credit hours have been accrued.

Since its inception, 91 officials have been awarded Road Builder and 15 have achieved the status of Master Road Builder. These officials come from 132 different agencies statewide and represent over 3000 years of service to Indiana street and highway departments.

Those twelve courses and their basic content are:

1. **Powers & Duties.** This course reviews the duties required by law as outlined in the Indiana Code as well as promoting effective working relationships and leadership and management skills.
2. **Liability and Risk Management.** Learn OSHA requirements and commercial driver’s license (CDL) requirements as well as discuss tort liability claims and transportation liability.
3. **Highway Funding.** View LTAP’s “bead demo” that visually captures the path federal and state funds take before they reach your agency. You’ll also learn some revenue sources for street and highway departments.
4. **Purchasing and Public Construction.** Receive updates from the State Board of Accounts and learn proper protocol for emergency purchasing.

5. **Roadway Safety.** Learn low cost safety measures that can greatly decrease crash rates on both low volume and high volume roads. Learn how to obtain crash data and how to put it to good use.
6. **Basics of a Good Road.** Learn the fundamentals of road design, how to select concrete and asphalt materials and basic drainage laws.
7. **Temporary Traffic Control.** Attendees learn the safety requirements for developing a temporary traffic control plan for their worksite as well as implementation and design of a work zone.
8. **Manual for Uniform Traffic Control Devices (MUTCD).** This course covers MUTCD updates as well as legal aspects and tort claims. Learn sign management software and stay current on retroreflectivity regulations as well as those for work zone apparel.
9. **Bridge Basics.** This course covers basic structure types and bridge terminology as well as design, maintenance, inspection and funding.
10. **Drainage.** Legal aspects and drainage laws are discussed as well as basic hydrology, structure types and hydraulic design and sizing.
11. **Road and Bridge Plan Reading.** Attendees will earn vocabulary and symbol definitions and specifications for bridges and roads.
12. **Estimating Construction Cost and Quantities.** A math refresher is followed by lessons in calculating area and volume, quantities and costs.

This year's Road Scholar track will be held in the Krannert Auditorium and includes the following courses:

Course # 10: Drainage

Tuesday, March 5, 2:00 – 5:00 PM

Course #11: Road & Bridge Plan Reading

Wednesday, March 6, 2:00 – 5:00 PM

Technical Program

The quick reference fold out guide that was provided at registration provides an at-a-glance view of the tracks, session names, session times, as well as a session ID. The ID numbers shown on the quick reference guide correspond to the session numbers on the following pages.

Session Moderators: In general, the program has moderators that are assigned to cover a room for an entire morning or afternoon. Moderators are responsible for keeping the session on schedule and managing questions and answers.

Session Speakers/Participants: Many of the sessions reflect substantial team efforts. However, it is difficult to have more than 2-3 speakers per 50 minute module. To provide recognition of the team effort involved in preparing a session without having an excessive number of speakers in a 50 minute period, some individuals listed on the program may not present, but will serve in commentary and support roles during the Q&A portion of a session.



Session 1: Fuel Tax Revenue

Date: Tuesday, March 5, 2013

Time: 1:00 – 1:50 PM

Room: STEW 204

PDH/CEU: 1

Moderator: Opal Kuhl, Tippecanoe County
Highway Department

Speakers and Participants:

Dan Brassard, INDOT

Bill Weinmann, INDOT

This presentation will discuss Indiana's fuel taxes now and in the future.

Session 2: Routine Business of Local Government and Liability

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 204

Moderator: Opal Kuhl, Tippecanoe County
Highway Department

Speaker and Participant:

Grant Clapacs, Bingham Greenebaum
Doll LLP

Come listen to a discussion on liability risks and best practices for managing claims and potential liabilities for local governmental entities in Indiana.

Session 3: Purdue E-Pubs: Free Online Access to Transportation Research

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 204

Moderator: Opal Kuhl, Tippecanoe County
Highway Department

Speakers and Participants:

Charles Watkinson, Purdue University

David Scherer, Purdue University

Purdue E-Pubs is a free service provided by the Purdue Libraries offering access to some of the best transportation research. This session will review the partnership with JTRP/INDOT to archive and disseminate technical reports, Purdue Road School presentations, and affiliated reports.

Session 4: Indiana Bond Bank Fuel Budgeting Program

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 204

PDH/CEU: 1

Moderator: Opal Kuhl, Tippecanoe County
Highway Department

Speaker and Participant:

Angela Steeno, Crowe Horwath, LLP

This session will address a method of managing fuel budgets and contracts through the Bond Bank Program.

Session 5: Red Flag Analysis/Investigations

Date: Tuesday, March 5, 2013

Time: 11:00 – 11:50 AM

Room: STEW 322

PDH/CEU: 1

Moderator: John Thomas, Tippecanoe County
APC

Speakers and Participants:

James Turnwald, Michiana Area
Council of Governments

Jennifer Miller, Michiana Area
Council of Governments

Kenneth McMullen, INDOT

Anna Burman, Area Plan Commission
of Tippecanoe County

Sallie Fahey, Area Plan Commission of
Tippecanoe County

Early project-level environmental analysis can save time and money. A Red Flag Analysis reveals possible environmental issues prior to the start of the design process and adds greater certainty to the design and budgeting process. The analysis can be done as part of the long-range transportation plan or at the pre-design project level.



Session 6: Hazardous Commodity Flow Analysis

Date: Tuesday, March 5, 2013

Time: 1:00 – 1:50 PM

Room: STEW 322

PDH/CEU: 1

Moderator: John Thomas, Tippecanoe County
APC

Speakers and Participants:

Sam George, Sam George and
Associates, LLC

Marta Moody, Delaware-Muncie
Metropolitan Plan Commission

Sallie Fahey, Area Plan Commission of
Tippecanoe County

First responders need to know what hazardous materials they are likely to encounter in your community. A Hazardous Material Commodity Flow Analysis identifies and classifies the hazardous materials coming into and through your community on each major road and railroad.



Session 7: Bicycle and Pedestrian Safety Planning

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 322

PDH/CEU: 1

Moderator: John Thomas, Tippecanoe County APC

Speakers and Participants:

Jeremy Moore, Indianapolis MPO

Dennis Donahue, City of Fort Wayne

Matt Peters, Northeastern Indiana Regional Coordinating Council

Jerry Foust, Northeastern Indiana Regional Coordinating Council

Daniel Avery, Northeastern Indiana Regional Coordinating Council

Learn about bicycle and pedestrian crashes, how to apply the data results, and updating local bicycle and pedestrian laws. A recent study, conducted by the Northeastern Indiana Regional Coordinating Council (NIRCC) to analyze crash statistics for pedestrians and bicycles in the Fort Wayne Urban Area, will be presented. The utilization of this data in the planning process and how this analysis has been used to draft and gain approval of updated local bicycle/pedestrian ordinances. NIRCC and the City of Fort Wayne will feature their recent successes.

Session 8: Implementing Complete Streets

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 322

PDH/CEU: 1

Moderator: John Thomas, Tippecanoe County
APC

Speakers and Participants:

Mitch Barloga, Northwestern Indiana
Regional Council

Josh Desmond, Bloomington/Monroe
County MPO

Peter Fritz, Indiana State Department
of Health

Many communities have adopted Complete Streets Policies, but few have much experience implementing them. This session will focus on what comes after adoption of the policy, the processes established, how to be flexible but stay true to the goals, exceptions to the policy, and performance measures.

Session 9: FHWA's EDC2 Initiative

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 322

PDH/CEU: 1

Moderator: John Thomas, Tippecanoe County
APC

Speakers and Participants:

Ted Pollack, INDOT

Robert Dirks, FHWA

This session will provide an overview of the second round of the FHWA Everyday Counts Initiative, the specific components, and how those will relate to the Metropolitan Planning Organizations and Local Public Agencies.

Session 10: Improving Bridge Deck Quality and Durability

Date: Tuesday, March 5, 2013

Time: 1:00 – 1:50 PM

Room: STEW 306

PDH/CEU: 1

Moderator: Barry Partridge, INDOT

Speakers and Participants:

Jason Weiss, Purdue University

Ron Walker, INDOT

This presentation will discuss recent efforts to implement internal curing for concrete bridge decks. It will also discuss its use with high performance concretes and other associated efforts to improve the quality and durability of bridge deck concrete.

Session 11: Electrical Testing of Concrete: A Practical Explanation and Demonstration

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 306

PDH/CEU: 1

Moderator: Barry Partridge, INDOT

Speakers and Participants:

Jason Weiss, Purdue University

Tommy Nantung, INDOT

The electrical properties of concrete are being used to characterize the durability of concretes. Recently, the development of hand-held testing units has generated interest in taking these tests to the field. The resistivity, or conductivity, testing is rapid and can provide instant information on concrete quality. The concept of the testing will be discussed and a hands-on demonstration of the equipment will be provided.

Session 12: Best Practices for Bridge Deck Overlays

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 306

PDH/CEU: 1

Moderator: Barry Partridge, INDOT

Speakers and Participants:

Tommy Nantung, INDOT

Robert Frosch, Purdue University

This presentation will discuss recent research regarding alternative bridge deck overlay methods and best practices associated with their use.

Session 13: Eggner's Ferry Bridge Replacement

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 306

PDH/CEU: 1

Moderator: Barry Partridge, INDOT

Speaker and Participant:

Aaron Stover, Michael Baker
Corporation

On January 26, 2012, a cargo ship collapsed a 322-foot-long span of the Eggner's Ferry Bridge, severing a critical connection to educational, recreational, and business centers throughout western Kentucky. This presentation will describe the emergency bridge replacement efforts and highlight the accelerated design and construction methods for the replacement span.

Session 14: Work Zone Patrols, Incident Management, and Processes to Improve Work Zone Progression

Date: Tuesday, March 5, 2013

Time: 11:00 – 11:50 AM

Room: STEW 206

PDH/CEU: 1

Moderator: Pat McCarty, INDOT

Speakers and Participants:

Kim Peters, INDOT

Pat McCarty, INDOT

This presentation will discuss work zone patrols and incident management, and then provide information on recent action to reduce delay, and improve work zone progression.

Session 15: 2012 Work Zone Review

Date: Tuesday, March 5, 2013

Time: 1:00 – 1:50 PM

Room: STEW 206

PDH/CEU: 1

Moderator: Pat McCarty, INDOT

Speaker and Participant:

Pat McCarty, INDOT

INDOT performs regular construction and maintenance work zone audits. This presentation will provide an overview of the findings from reviews in 2012.

Session 16: The Safe Installation and Removal of Temporary Traffic Control

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 206

PDH/CEU: 1

Moderator: Pat McCarty, INDOT

Speaker and Participant:

Bob Karrick, Area Wide Protective

This session will provide an overview of the safe installation and removal of temporary traffic control.

Session 17: Work Zone Flagging Operations

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 206

Moderator: Pat McCarty, INDOT

Speaker and Participant:

Bob Karrick, Area Wide Protective

This session will provide an overview of work zone flagging operations.



Session 18: Use of Automated Flagging Devices in Indiana

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 206

Moderator: Pat McCarty, INDOT

Speakers and Participants:

David Boruff, INDOT

David Jones, Safety Technologies

This presentation will discuss the 2011 Indiana MUTCD and the use of automated flagging devices in Indiana.

Session 19: Statutes, Rules, and Ethics for Professional Engineers (A)

Date: Tuesday, March 5, 2013

Time: 3:00 – 4:50 PM

Room: Loeb Theater

PDH/CEUs: 2

Moderators: Brad Bowen, Purdue University

Dan Keefer, FHWA

Speaker and Participant:

Vincent Drnevich, Purdue University

This module will provide professional engineers with practical information essential for their practice and the renewal of licenses in Indiana. The session will fulfill the two required one-hour continuing education courses: one on Indiana statutes and rules applicable to the practice of professional engineering and one on ethics applicable to the practice of professional engineering.

Session 20: Lincoln Highway Centennial and the Birth of the Federal Highway System

Date: Tuesday, March 5, 2013

Time: 11:00 – 11:50 AM

Room: STEW 218 CD

Moderator: Janice Osadczuk, FHWA

Speaker and Participant:

Dennis Horvath, Lincoln Highway
Association-Indiana Chapter

The centennial of the organizing meeting creating the nation's first transcontinental highway will be celebrated in July 2013. This is generally considered to be the birth of the federal highway system. The Indiana Lincoln Highway Association will discuss the Lincoln Highway and its upcoming celebration.

Session 21: Alternative Bidding History and Requirements

Date: Tuesday, March 5, 2013

Time: 1:00 – 1:50 PM

Room: STEW 218 CD

PDH/CEU: 1

Moderator: Janice Osadczuk, FHWA

Speakers and Participants:

Tom Duncan, FHWA

David Holtz, INDOT

This presentation will provide an overview of the history of alternative bidding and discuss the requirements for its application.

Session 22: I-69 Project Development Process

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 218 CD

PDH/CEU: 1

Moderator: Janice Osadczuk, FHWA

Speakers and Participants:

Sam Sarvis, INDOT

Sandra Flum, INDOT

This session will provide an update of the recent I-69 project development processes including environmental impact and public involvement.

Session 23: Contract Information Book-Unique Special Provisions

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 218 CD

PDH/CEU: 1

Moderator: Janice Osadczuk, FHWA

Speaker and Participant:

Peter Allaben, INDOT

This presentation will discuss the use of unique special provisions in the Contract Information Book (CIB). New reporting requirements, formatting for local agencies' unique special provisions as well as utility special provisions will be discussed. Processes, schedules and risks associated with the process will be covered.

Session 24: Koontz Lake Dam at SR 23

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 218 CD

PDH/CEU: 1

Moderator: Janice Osadczuk, FHWA

Speakers and Participants:

Dan Delgado, Lawson-Fisher
Associates

Dennis Zebell, Lawson-Fisher
Associates

Sky Medors, Lawson-Fisher Associates

A case study of the SR 23 replacement at the Koontz Lake Dam will be presented. The dam replacement, road re-alignment, and labyrinth spillway will be discussed. The design criteria and processes associated with each of those items will be discussed as well as the coordination with and expectations of the multiple owners involved with the project.

Session 25: Understanding the ADA

Date: Tuesday, March 5, 2013

Time: 11:00 – 11:50 AM

Room: STEW 214

PDH/CEU: 1

Moderator: Ken Woodruff, FHWA

Speaker and Participant:

David Meihls, ADA Consultants of
Indiana, L.L.C.

This session will cover the history of the ADA. It will explain the five Titles of the ADA, the changes that came with the 2010 ADAAG, and the eight proposed new rules. There will be a brief question and answer session to follow.

Session 26: Successes and Challenges in Creating Required ADA Transition Plans

Date: Tuesday, March 5, 2013

Time: 1:00 – 1:50 PM

Room: STEW 214

PDH/CEU: 1

Moderator: Ken Woodruff, FHWA

Speakers and Participants:

Ken Woodruff, FHWA

Laurie Hardwick, City of Greencastle

Denise Line, Town of Ellettsville

Clay Johnson, Town of Munster

Participants will hear from LPAs from across Indiana as to how they successfully completed their required ADA Transition Plans. Presenters will discuss the challenges they faced, how they overcame those challenges, and the processes used to finish the plans and have them formally adopted.

Session 27: Technical Assistance for ADA Access Plans for Towns with less than 50 Employees

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 214

PDH/CEU: 1

Moderator: Ken Woodruff, FHWA

Speaker and Participant:

Jay DuMontelle, FHWA

This session will provide information as to how smaller LPAs can create a simple access plan that will assist them in removing identified barriers over time.

Session 28: Transition Plans: A Closer Look

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 214

PDH/CEU: 1

Moderator: Jay DuMontelle, FHWA

Speakers and Participants:

Kerri Grubb, ADA Consultants of
Indiana, L.L.C.

David Meihls, ADA Consultants of
Indiana, L.L.C.

Amy Moore, ADA Consultants of
Indiana, L.L.C.

This session will answer the following questions:

- *What is a Transition Plan?*
- *Who does it apply to?*
- *What are the key elements of a Transition Plan?*

Session 29: Implementation of ADA Data Collection to an Active Transition Plan

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 214

PDH/CEU: 1

Moderator: Jay DuMontelle, FHWA

Speaker and Participant:

Steve Metzger, DLZ Corporation

The goal of collecting assessment data within your community for ADA compliance is to turn that data into a strategic transition plan. An ADA transition plan includes specific corrective measures, a schedule, a financial plan, and participation from the community. Case studies from two Indiana cities will be presented, demonstrating effective ADA transition plan preparation.

Session 30: The Indiana Urban Tree Canopy Project

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 313

Moderator: Jennifer Gulick, Davey Resource Group

Speakers and Participants:

Jennifer Gulick, Davey Resource Group

Matthew Evans, City of Valparaiso

The Indiana DNR Forestry Division has completed two projects which demonstrate the many benefits and significant impacts trees have on our cities. This presentation will discuss the findings of a statewide urban forest assessment, a quantifiable benefit analysis, and the results of a statewide urban tree canopy cover evaluation and mapping project. Details regarding the availability of mapping data, overcoming challenges, and leveraging information as well as effective active outreach activities will be discussed.

Session 31: Tree Planting Coordination with Overhead Utilities

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 313

PDH/CEU: 1

Moderator: Jennifer Gulick, Davey Resource Group

Speakers and Participants:

Henry Wienholts, NIPSCO

John Stout, NIPSCO

Coordination of plantings and utilities is a critical issue. Public outreach is important for utilities in this coordination process. With a good campaign, utility companies can make sure the “right tree is planted in the right place.” Come hear the success story of the TREE LINE USA effort in northern Indiana.

Session 32: Emerald Ash Borer Infested Trees and the Threat to the Public Right-of-Way

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 313

Moderator: Jennifer Gulick, Davey Resource Group

Speakers and Participants:

Jennifer Gulick, Davey Resource Group

Chad Tinkel, City of Fort Wayne

Efforts are still underway to mitigate the impacts of the emerald ash borer. As part of the outreach campaign to bring awareness to the impacts of this problem, this session will teach public works officials the attributes of a tree that has been infested. Infested trees, if not caught in time, could fall unexpectedly. Learning to evaluate a tree for possible infection could help an agency take preventative action before fall damage occurs.

Session 33: Pavement Management for Local Agencies

Date: Tuesday, March 5, 2013

Time: 2:00 – 3:50 PM

Room: FACE

PDH/CEUs: 2

Moderator: Danny Hollander, Bartholomew County Highway Department

Speaker and Participant:

Blair Barnhardt, The Barnhardt Group

Pavement management is important for agencies to maintain their critical infrastructure. By using the core principles of asset management, pavement assessment, and candidate selection, an agency is able to address pavement distresses with routine maintenance and prevent good and fair roads from becoming bad roads. This presentation will discuss the many ways agencies have successfully managed their way to an improved overall road network even during the most challenging times.

Session 34: Pavement Management: A Case Study to Implementation

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: FACE

PDH/CEU: 1

Moderator: Danny Hollander, Bartholomew
County Highway Department

Speaker and Participant:

David Holtz, INDOT

Presenters will discuss INDOT's pavement management program, the challenges faced, and the successes that have come with development and implementation. Presenters will also discuss how the methodology for treatment timing and candidate selection can be utilized by Indiana local agencies to begin to develop in house programs to extend the life of their pavements.

Session 35: Advanced Pavement Evaluation & Design Methods

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 302

PDH/CEU: 1

Moderator: Bill Meeks, INDOT

Speakers and Participants:

Chuck Gemayel, Soil and Materials
Engineers, Inc.

Michael Maurovich, American
Structurepoint, Inc.

Fiscal constraints can limit the analysis that can be done prior to pavement design. The falling weight deflectometer offers a fast and cost effective solution to obtaining information to assist in these processes. This presentation will discuss its use and inputs into the new Mechanistic-Empirical Pavement Design Guide Darwin-ME software adopted by INDOT.

Session 36: Pavement Interlayers and the Extension of Service Life

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 302

PDH/CEU: 1

Moderator: Bill Meeks, INDOT

Speaker and Participant:

Jack Schmitt, Road Fabrics, Inc.

Pavement interlayers include polypropylene, fiberglass, and geogrids. They can be used as a waterproofing layer or a strengthening layer. They extend the service life of bituminous pavements by controlling the natural reflective cracking that occurs in flexible bituminous pavements. Pavement interlayers can be included in the construction of new pavements, or they can be introduced in the rehabilitation of the pavement.

Session 37: The Use and Performance of Air-Cooled Blast Furnace Slag (ACBFS) as Coarse Aggregate in Concrete Pavements

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 302

PDH/CEU: 1

Moderator: Bill Meeks, INDOT

Speaker and Participant:

Jan Olek, Purdue University

This presentation will focus on the best practices for the use and performance of air-cooled blast furnace slag (ACBFS) as a coarse aggregate in concrete paving mixtures. It will summarize the engineering properties of such concretes and discuss perceived risks associated with the use of such concretes in pavements. Findings from recent local, national, and international research will be discussed.

Session 38: LPA Utility Coordination, Reimbursement, Agreements, Consultant Selection, and Critical Path Scheduling

Date: Tuesday, March 5, 2013

Time: 11:00 – 11:50 AM

Room: STEW 310

PDH/CEU: 1

Moderator: Lou Haasis, FHWA

Speakers and Participants:

Kenny Franklin, INDOT

Lou Haasis, FHWA

This session will focus on LPA responsibilities for Utility Coordination in relationship to LPA transportation projects. Primary topics include:

- *When utility coordination is reimbursable and the associated agreements*
- *Hiring the right consultant for your project*
- *Invoicing, specific to utility coordination*
- *Critical Path Scheduling*

Session 39: Bridge Inspection: The Role of the Employee of Responsible Charge

Date: Tuesday, March 5, 2013

Time: 1:00 – 1:50 PM

Room: STEW 310

PDH/CEU: 1

Moderator: Scott Bailey, INDOT

Speaker and Participant:

Merril Dougherty, INDOT

This session will discuss the role and duties of the LPA's Employee in Responsible Charge (ERC) in respect to managing a county's bridge inspection program. As this is a new requirement, all county ERCs and elected officials are encouraged to attend. As possible, information regarding MAP 21 impacts to bridge inspection will also be discussed.

Session 40: FHWA Bridge Update

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 310

PDH/CEU: 1

Moderator: Scott Bailey, INDOT

Speaker and Participant:

Keith Hoernschemeyer, FHWA

This session will discuss components of the MAP 21 legislation regarding bridges as well as other current bridge-related issues.

Session 41: New LPA Application Process

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 310

PDH/CEU: 1

Moderator: Scott Bailey, INDOT

Speakers and Participants:

Mike Cales, INDOT

Victoria Evans, INDOT

This session will guide LPAs through the “NEW” on-line LPA project application process. All LPAs who anticipate applying for a project in 2013 and beyond should attend. To supplement the presentation, INDOT will have help sessions where LPAs can drop in and get hands-on practice using sample project applications (see Sessions 43 and 117, described on pages 41 and 85).

Session 42: Model LPA Projects

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 310

PDH/CEU: 1

Moderator: Scott Bailey, INDOT

Speakers and Participants:

Mark Albers, INDOT

Scott Bailey, INDOT

Shane Spears, INDOT

Chris Wahlman, INDOT

Pam Drach, INDOT

This panel discussion will highlight a variety of project development best practices as illustrated through active or recently completed LPA projects. Discussion will cover problem solving, critical thinking, and lessons learned.

Session 43: LPA Application Assistance

Date: Tuesday, March 5, 2013

Time: 11:00 – 11:50 AM

1:00 – 4:50 PM

Room: STEW 311

Moderator: April Schwering, INDOT

This is a drop-in session that provides LPAs an opportunity to get hands-on practice using the new on-line application. This drop-in session provides practice and one-on-one assistance to supplement the information provided in the guided presentation in Sessions 41 and 117 (see pages 40 and 83). This room will be open for walk-in practice starting on March 5th at 11:00 AM and continuing on March 6th during Road School hours.

Session 44: 2011 Indiana Interstate Mobility

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 314

PDH/CEU: 1

Moderator: Jay Wasson, INDOT

Speakers and Participants:

Thomas Brennan, Purdue University

Stephen Remias, Purdue University

A qualitative and quantitative evaluation that characterizes congestion along 943 center line miles of Indiana's interstates in 2011 was recently completed. Based on an analysis of over 300 million speed records, graphical representations of these characteristics were prepared and will be presented providing a visually intuitive and analytically sound method of characterizing the congestion along Indiana's interstates.

Session 45: Probe Vehicle Data to Assess Workzone Safety

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 314

PDH/CEU: 1

Moderator: Jay Wasson, INDOT

Speakers and Participants:

Thomas Brennan, Purdue University

Jim Poturalski, INDOT

Historically, work zone maintenance of traffic (MOT) plans have been deployed without a scalable and systematic means to assess congestion and make comparisons between modeled and actual queue lengths observed during construction. This session will discuss how commercial probe data can be used to estimate queue lengths and fuse that information with crash data.

Session 46: A Plan for Indiana's Logistics Future

Date: Tuesday March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 314

Moderator: Jay Wasson, INDOT

Speaker and Participant:

David Holt, Conexus

Growing the logistics sector is an important initiative for Indiana. This presentation will discuss near and medium term plans as well as options for projects that will help grow the logistics sector.

Session 47: Local Traffic Management

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 202

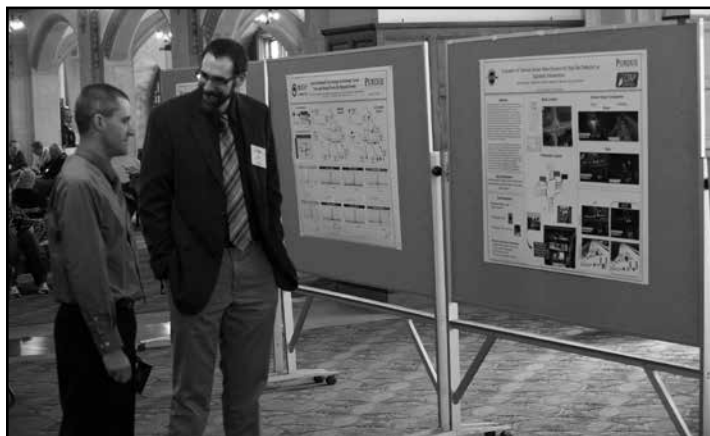
PDH/CEU: 1

Moderator: Jim Sturdevant, INDOT

Speaker and Participant:

Jay Grossman, Elkhart County

Elkhart County will discuss recent efforts to improve signalized corridor management as well as specific actions taken to accommodate special event planning. Case studies of special events with limited access and infrastructure serving the event site will be discussed.



Session 48: Longitudinal Performance Measures for Prioritizing Agency-Wide Traffic Signal Maintenance and Retiming

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 202

PDH/CEU: 1

Moderator: Jim Sturdevant, INDOT

Speakers and Participants:

Christopher Day, Purdue University

Howell Li, Purdue University

Quantitative performance measures are important for prioritizing traffic signal maintenance and retiming activities. This presentation will describe the development and application of these performance measures.

Session 49: Developments in Emergency Vehicle Traffic Signal Preemption to Avoid Collisions

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 202

PDH/CEU: 1

Moderator: Jim Sturdevant, INDOT

Speakers and Participants:

Lenny Addair, City of Indianapolis

David Gross, Collision Control
Communications, Inc.

This session is designed to provide participants with a background on the development of emergency vehicle preemption and then move into a discussion regarding the improvements to the reliability of emergency vehicle preemption when radio frequencies are used. A case study based upon a recent field installation will be presented in detail.

Session 50: Call Before You Dig and Subsurface Utility Engineering

Date: Tuesday, March 5, 2013

Time: 11:00 – 11:50 AM

Room: STEW 218 AB

PDH/CEU: 1

Moderator: Michael Orr, IURC Pipeline Safety Division

Speakers and Participants:

Michael Orr, IURC Pipeline Safety Division

Kenneth Slaninka, Cardno TBE

Joe Gundersen, INDOT

The Indiana Utility Regulatory Commission's Pipeline Safety Division will provide information regarding the Damage to Underground Facilities Act (IC 8-1-26), the Indiana 811 "Call Before You Dig Law," better known as Holey Moley. A discussion regarding subsurface utility engineering will also be provided.

Session 51: Directional Boring

Date: Tuesday, March 5, 2013

Time: 1:00 – 1:50 PM

Room: STEW 218 AB

PDH/CEU: 1

Moderator: Michael Orr, IURC Pipeline Safety Division

Speakers and Participants:

John Gregor, Miller Pipeline

Aschalew Abera, INDOT

This presentation will provide a discussion of directional boring, including methods, tools, and accuracy of placement to XYZ coordinates as well as dealing with water, rock, and other conditions.

Session 52: Utility Coordination and Consultant Prequalification

Date: Tuesday, March 5, 2013

Time: 2:00 – 2:50 PM

Room: STEW 218 AB

PDH/CEU: 1

Moderator: Michael Orr, IURC Pipeline Safety Division

Speakers and Participants:

Kenny Franklin, INDOT

Doug Gannaway, INDOT

This presentation will cover new ideas and mindsets in utility coordination. The expectations of a new consultant pre-qualification category for utility coordination will also be discussed.

Session 53: Best Practices for Utility Coordination: A Case Study of the Ohio River Bridges Project

Date: Tuesday, March 5, 2013

Time: 3:00 – 3:50 PM

Room: STEW 218 AB

PDH/CEU: 1

Moderator: Michael Orr, IURC Pipeline Safety Division

Speakers and Participants:

Joe Gundersen, INDOT

Cindy Kowalski, Community Transportation Solutions

Gail Lee, INDOT

This session will provide an overview of best practices for utility coordination. A case study of the processes used on the Ohio River Bridges will be discussed.

Session 54: Designing Near Utilities

Date: Tuesday, March 5, 2013

Time: 4:00 – 4:50 PM

Room: STEW 218 AB

PDH/CEU: 1

Moderator: Michael Orr, IURC Pipeline Safety Division

Speakers and Participants:

Rich Miller, Citizens Gas

Mike Seals, Indiana American Water

Tom Rueschhoff, INDOT

This session will provide guidelines for designing near water and gas facilities. Utility company representatives will provide their perspective on the most critical issues.

Session 55: An Orientation of Workplace Safety and Applicable IOSHA Standards

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: STEW 204

PDH/CEU: 1

Moderator: Shawna Schwegman, Association of Indiana Counties

Speaker and Participant:

Bob Davidson, Downey Public Risk Underwriters

This presentation will provide an overview of workplace safety. Attendees will learn the IOSHA standards and safety practices that apply to many of the functions of a street or highway department. Discussions will include IOSHA Employer Requirements, IOSHA General Duty Clause, as well as many of the topics specific to local agencies operations.

Session 56: HR for Local Government Agencies: Supervisor Training

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: STEW 204

Moderator: Shawna Schwegman, Association of Indiana Counties

Speaker and Participant:

Paula Reimers, Waggoner, Irwin,
Scheele & Associates, Inc.

During this session, presenters will cover some of the difficult employee and employer issues that may be encountered. Examples of what transportation managers have encountered include: light duty, hiring and firing, workplace violence, and stress in the workplace. Attendees will also hear about some of the available training and resources that can assist in developing a highly trained managerial staff.

Session 57: SHRP 2: The Second Strategic Highway Research Program

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: STEW 204

PDH/CEU: 1

Moderator: Shawna Schwegman, Association of Indiana Counties

Speakers and Participants:

Samy Noureldin, INDOT

Neil Pedersen, Transportation
Research Board

SHRP 2 is the Nation's Second Strategic Highway Research Program. It emphasizes mobility and safety transportation assets through capacity, reliability and safety focus areas and emphasizes roadway/pavement and bridge assets through renewal focus area. This presentation will briefly highlight what SHRP 2 is, its current status, SHRP 2's focus areas, INDOT's role and action items as well as the implementation of high priority products.

Session 58: Roundabout Public Outreach Campaigns

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: STEW 204

PDH/CEU: 1

Moderator: Stephanie Yager, Indiana Association of County Commissioners

Speakers and Participants:

Aimee Bennett, INDOT

David Buck, City of West Lafayette

As roundabouts continue to gain popularity in Indiana, it becomes important to help the public understand their function. This session will discuss recent outreach efforts by the City of West Lafayette and INDOT.

Session 59: Harnessing the Power of Media Relations and Social Media for Public Outreach

Date: Wednesday, March 6, 2013

Time: 2:00 – 2:50 PM

Room: STEW 204

Moderator: Stephanie Yager, Indiana Association of County Commissioners

Speakers and Participants:

Andrea Farmer, Borshoff

Jim Pinkerton, INDOT

Erin Pipkin, Borshoff

Nathan Riggs, INDOT

This presentation will discuss strategies for launching a simple, yet effective, campaign through media relations and social media for public outreach. Key points regarding protocol and time management will be covered.

Session 60: Using the Cloud to Store and Share Files

Date: Wednesday, March 6, 2013

Time: 3:00 – 3:50 PM

Room: STEW 204

Moderator: Stephanie Yager, Indiana Association
of County Commissioners

Speaker and Participant:

Rod Rudd, MMY Consulting

Secure Clouds exist that allow sharing of files between collaborators without having to email those files as attachments. This session will demonstrate how to setup a secure environment and how to use the facilities available to activate your cloud storage environment.

Session 61: Establishing and Updating Fixed Asset Records

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: STEW 322

PDH/CEU: 1

Moderator: Gary Eakin, Town of Danville

Speaker and Participant:

Michael Nielsen, Government Fixed
Asset Services, Inc.

Establishing a record of an agency's capital assets for accounting and financial reporting purposes is an important process. This session will discuss the processes and procedures for establishing and updating governmental fixed asset records.

Session 62: Buying and Selling Surplus Government Construction Equipment

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: STEW 322

Moderator: Gary Eakin, Town of Danville

Speaker and Participant:

Mark Domeier, IronPlanet

Purchasing and selling of surplus construction equipment has become more cost effective with the development of online auctions and surplus stores. Local government can benefit from using third party online equipment purchasing and receiving good appraisals on their used equipment. This session will explain the details of this methodology.

Session 63: Best Practices in Contract Administration

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: STEW 322

PDH/CEU: 1

Moderator: Gary Eakin, Town of Danville

Speaker and Participant:

Bren George, FHWA

This session will discuss best practices in contract administration.

Session 64: Change Order Approval Process on Federal-Aid Projects

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: STEW 322

PDH/CEU: 1

Moderator: Louis Haasis, FHWA

Speaker and Participant:

Bren George, FHWA

This session will discuss the change order approval process.

Session 65: FHWA Construction Project Close-Out Expectations and Requirements

Date: Wednesday, March 6, 2013

Time: 2:00 – 2:50 PM

Room: STEW 322

PDH/CEU: 1

Moderator: Louis Haasis, FHWA

Speakers and Participants:

Bren George, FHWA

Robert Dirks, FHWA

FHWA is moving to new requirements for project close-out, which will be presented in this session.



Session 66: The Madison Milton Bridge Project

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: STEW 306

PDH/CEU: 1

Moderator: Bill Williams, Monroe County

Speakers and Participants:

Jason Bunselmeier, INDOT

Kevin Hetrick, INDOT

INDOT will provide a brief introduction to the Madison Milton Ohio River Bridge Project, discuss the project development process, the design/build procurement and the construction during this presentation.

Session 67: Madison Milton Design Build Bridge Construction

Date: Wednesday, March 6, 2013

Time: 9:00 – 10:50 AM

Room: STEW 306

PDH/CEUs: 2

Moderator: Bill Williams, Monroe County

Speakers and Participants:

Murray Johnson, Buckland & Taylor Ltd.

Tom Bolte, Burgess & Niple

Doug Vanslambrook, The Walsh Group

The design build team will provide an overview of the Madison Milton Ohio River Bridge Project construction. There will be a brief discussion of the design-build process. Specific discussions of the retrofits to the existing caissons and piers that allowed for the existing substructure to be reused as well as discussions of the truss design, erection, span lifts, and sliding will be provided.

Session 68: Ohio River Bridges Procurement and Special Features

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: STEW 306

PDH/CEU: 1

Moderator: Kevin Russel, Harrison County
Engineer

Speaker and Participant:

Ron Heustis, INDOT

This presentation will provide an update to the Ohio River Bridges procurement processes and discuss special bridge and tunnel features.

Session 69: Lindberg Road Bridge Project, West Lafayette

Date: Wednesday, March 6, 2013

Time: 2:00 – 2:50 PM

Room: STEW 306

PDH/CEU: 1

Moderator: Kevin Russel, Harrison County
Engineer

Speakers and Participants:

Alison Krupski, American
Structurepoint, Inc.

Chris Ogg, American Structurepoint,
Inc.

A case study of the bridge project at the Celery Bog on Lindberg Road in West Lafayette, Indiana, will be presented. It will discuss soil conditions, existing obstructions, and the processes for evaluating the challenges and their resolution during the project development stage. Issues encountered during construction and their solutions will also be discussed.

Session 70: Mechanically Stabilized Earth Project Coordination

Date: Wednesday, March 6, 2013

Time: 3:00 – 4:50 PM

Room: STEW 306

PDH/CEUs: 2

Moderator: Joe Wiley, Henry County Highway
Department

Speakers and Participants:

Gene Lamberson, E.A. Lamberson,
PE, PC

Jim Reilman, INDOT

Coordination at all stages of a project is critical. Specific items to consider during MSE planning, development, and construction will be discussed. Industry and INDOT representatives will provide their perspective on many of the critical issues.

Session 71: Documentation of Construction Operations

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: Fowler

PDH/CEU: 1

Moderator: Mark Miller, INDOT

Speakers and Participants:

Rick Freije, Purdue University

Ben Smith, Purdue University

New innovative educational techniques regarding construction operations using time lapse imagery will be discussed. Conversations regarding the potential for improving inspection and training processes will also be included in the presentation.

Session 72: Design and Construction Process Management

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: Fowler

PDH/CEU: 1

Moderator: Mark Miller, INDOT

Speaker and Participant:

David Brown, Delcan

New approaches for improving design and construction processes have been used recently. Innovative methods for managing the requirements and quality of these processes will be discussed. A systematic data centric approach will be discussed as well as the processes of separating progress from performance. It will discuss the integration of these processes in the planning, risk analysis, design, submission, construction, inspection, quality control, and documentation phases.

Session 73: BIM in the Transportation Sector: LIDAR and Mobile Mapping

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: Fowler

PDH/CEU: 1

Moderator: Mark Miller, INDOT

Speaker and Participant:

Rick Hammond, Woolpert

This presentation will discuss building information modeling as it relates to the transportation sector. The presentation will cover the associated technology as well as integration of processes for survey, utility/obstruction coordination, design, and construction. Other applications of the technology including asset management will be discussed.

Session 74: QC/QA Earthwork and Intelligent Compaction

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: Fowler

PDH/CEU: 1

Moderator: Paul Berebitsky, ICA

Speaker and Participant:

Kurt Sommer, INDOT

This presentation will discuss a recent case study using QC/QA Earthwork Specifications and Intelligent Compaction.

Session 75: I-69 Construction Update

Date: Wednesday, March 6, 2013

Time: 2:00 – 2:50 PM

Room: Fowler

Moderator: Paul Berebitsky, ICA

Speakers and Participants:

Sam Sarvis, INDOT

Elliot Sturgeon, INDOT

This session will provide an update of the I-69 construction work completed to date.



Session 76: Who's Watching? - Erosion and Sediment Control on INDOT Projects

Date: Wednesday, March 6, 2013

Time: 3:00 – 3:50 PM

Room: Fowler

PDH/CEU: 1

Moderator: Paul Berebitsky, ICA

Speaker and Participant:

Nathan Saxe, INDOT

A look into the importance of managing E&SC on a project, updates to INDOT standards and an evaluation of the reporting provided to Federal Highway on a quarterly basis.

Session 77: Environmental Compliance: From the Plans to the Field

Date: Wednesday, March 6, 2013

Time: 4:00 – 4:50 PM

Room: Fowler

PDH/CEU: 1

Moderator: Paul Berebitsky, ICA

Speakers and Participants:

Jeffrey Spicer, American
Structurepoint, Inc.

Ben Harvey, American Structurepoint,
Inc.

Transportation work is often performed under the constraints of environmental permitting and the National Environmental Policy Act. Communication and coordination is important in assuring that the commitments made during the permitting processes are upheld during the project's progress. A case study on techniques used to improve the processes for environmental compliance from concept to completion will be presented.

Session 78A: Indiana LTAP Road Scholar Core Course #10 Drainage

Date: Tuesday, March 5, 2013

Time: 2:00 – 4:50 PM

Room: Krannert Auditorium

PDH/CEUs: 3

Moderator: Larry Lee, City of Lebanon Public Works

Speakers and Participants:

Thomas Burke, Christopher B. Burke
Engineering, Ltd.

Megan Elberts, Christopher B. Burke
Engineering, Ltd.

Bill Enslen, Enslen, Enslen, and
Matthews

Legal aspects and drainage laws are discussed as well as basic hydrology, structure types, and hydraulic design and sizing.

To learn more about the Road Scholar program, an explanation of the program is listed in the beginning of this document along with a listing of courses offered throughout the year. Please see the Table of Contents at the beginning of the document for the page number.



Session 78B: Indiana LTAP Road Scholar Core Course #11 Road and Bridge Plan Reading

Date: Wednesday, March 6, 2013

Time: 2:00 – 4:50 PM

Room: Krannert Auditorium

PDH/CEUs: 3

Moderator: Larry Lee, City of Lebanon Public Works

Speaker and Participant:

Bob McCullouch, Purdue University

The road and bridge plan reading course will discuss the basics associated with plan reading while providing useful information that can assist in the use of road and bridge plans. Specific topics will include terminology and abbreviations, concepts, road plans, bridge plans, and discussion of an on-line course.

To learn more about the Road Scholar program, an explanation of the program is listed in the beginning of this document along with a listing of courses offered throughout the year. Please see the Table of Contents at the beginning of the document for the page number.



Session 79: Pipe Installation and Inspection

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: STEW 218 AB

PDH/CEU: 1

Moderator: Scott Hesler, City of Crawfordsville

Speakers and Participants:

John Susong, Indiana Kentucky Ohio
Concrete Pipe Association

Eric Carleton, Independent Concrete
Pipe Company

Woody Rigdon, American Concrete
Pipe Association

Processes, procedures, and equipment used in the specification, installation, and inspection of flexible and rigid pipe will be presented with images of each to demonstrate those processes. Technology to evaluate existing storm drainage systems will also be discussed.

Session 80: Culvert Rehabilitation

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: STEW 218 AB

PDH/CEU: 1

Moderator: Scott Hesler, City of Crawfordsville

Speaker and Participant:

Sam Martin, CPI Supply

Culverts are an important component of an agency's infrastructure. Replacement is an expensive, time-consuming, labor intensive, and intrusive process causing significant traffic disruptions. The use of high density polyethylene pipe (HDPE) as well as other options for rehabilitating failing culverts will be discussed. A slip line project from the Morgan County Highway Department will be used as a case study.

Session 81: Sustainable Drainage

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: STEW 218 AB

PDH/CEU: 1

Moderator: Scott Hesler, City of Crawfordsville

Speakers and Participants:

Brian Neilson, GAI Consultants, Inc.

Mark Young, GAI Consultants, Inc.

Jim Knapp, Purdue University

Two case studies will be presented describing sustainable drainage alternatives. The processes used for the 2nd Street project in Seymour will provide a comparison of the design processes for conventional and green infrastructure solutions. Purdue University will discuss a number of permeable pavement installations on campus and provide a map for viewing. Asphalt, concrete, and permeable paver options will be discussed.



Session 82: Boundaries and Mapping: Perspectives from County Surveyors/County GIS Managers

Date: Wednesday, March 6, 2013

Time: 1:00 – 2:50 PM

Room: FACE

PDH/CEU: 2

Moderator: Sam Wolfe, DLZ

Speakers and Participants:

Gary Kent, The Schneider Corporation

Chris Knochel, Indiana County
Surveyors Association

Michael Stevenson, Gibson County
Surveyor

Lorraine Wright, IDEM

Phil Worrall, IN Geographical
Information Council

Bill Holder, Kosciusko County

As more organizations develop electronic maps, the importance of a good understanding of the data that creates these electronic maps becomes more important. Members from the County Surveyors Association along with members from the Indiana Geographic Information Council (IGIC) will come together on a panel to discuss electronic mapping.



Session 83: The Importance of Performing Route Surveys in the State of Indiana

Date: Wednesday, March 6, 2013

Time: 3:00 – 3:50 PM

Room: FACE

PDH/CEU: 1

Moderator: Sam Wolfe, DLZ

Speakers and Participants:

Rodney Kelly, Parsons, Cunningham
and Shartle Engineers, Inc.

Grant Niemeyer, Parsons,
Cunningham and Shortle Engineers,
Inc.

Chet Parsons, Parsons, Cunningham
and Shortle Engineers, Inc.

This presentation will provide an overview of Rule 12 and discuss what is involved in a Location Control Route Survey (LCRS). Details such as where they must be performed, why they are important, their benefits and best practices will be discussed.

Session 84: Statutes, Rules, and Ethics for Professional Engineers (B)

Date: Wednesday, March 6, 2013

Time: 8:00 – 9:50 a.m.

Room: Loeb Theater

PDH/CEU: 1

Moderators: Brad Bowen, Purdue University
Larry Heil, FHWA

Speaker and Participant:

Vincent Drnevich, Purdue University

This module will provide professional engineers with practical information essential for their practice and the renewal of licenses in Indiana. The session will fulfill the two required one-hour continuing education courses: one on Indiana statutes and rules applicable to the practice of professional engineering and one on ethics applicable to the practice of professional engineering.

Session 85: MAP-21

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: STEW 218 CD

PDH/CEU: 1

Moderator: Tom Murtaugh, Tippecanoe County

Speaker and Participant:

Mark Newland, FHWA

The Moving Ahead for Progress in the 21st Century Act (MAP-21) was signed into law by President Obama on July 6, 2012. It funds surface transportation programs in (FY) 2013 and 2014. This session will cover the general funding allocations, development of the rulemaking process, and the establishment of FHWA Performance Measures.

Session 86: The Indiana Motor Vehicle Highway Fund: A Discussion on Revenues, Distributions, and Expenses

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: STEW 218 CD

PDH/CEU: 1

Moderator: Tom Murtaugh, Tippecanoe County

Speaker and Participant:

Dan Bastin, Auditor of State's Office

This session will discuss the revenues, distributions, and expenses that make up the MVH fund. Presenters will cover the different types of revenue that make up Indiana's transportation funding and follow the path of those revenues through the funding formula. Also discussed will be the different expenses incurred by the fund each year and formulas as described in the Indiana Code.

Session 87: Municipal Financial Planning

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: STEW 218 CD

Moderator: Anthony Perkinson, FHWA

Speaker and Participant:

Gregory Guerrettaz, Financial
Solutions Group, Inc.

Municipal entities are facing many issues which are causing financial distress. This presentation will discuss strategies to assist in these difficult times. The strategies to be discussed will include short and long-term financial planning, board discussions and the creation of a capital improvement plan.

Session 88: Public Private Partnerships (P3) Successes and Opportunities

Date: Wednesday, March 6, 2013

Time: 2:00 – 3:50 PM

Room: STEW 218 CD

PDH/CEUs: 2

Moderator: Anthony Perkinson, FHWA

Speakers and Participants:

Ron Heustis, INDOT

Greg Kicinski, INDOT

Chris Kiefer, INDOT

Jim Stark, INDOT

Tim Wilschetz, KPMG Infrastructure
Advisory

Kendra York, Indiana Finance
Authority

This panel discussion will discuss successful development of the Ohio River Bridge Public Private Partnership, review lessons learned, and discuss opportunities for additional P3 initiatives in Indiana and adjoining states.

Session 89: Evaluating the Long-Term Leasing of Toll Roads

Date: Wednesday, March 6, 2013

Time: 4:00 – 4:50 PM

Room: STEW 218 CD

PDH/CEU: 1

Moderator: Anthony Perkinson, FHWA

Speaker and Participant:

Zhibo Zhang, Purdue University

This presentation will discuss the decision making process associated with public-private partnerships (PPP). It will provide a general framework for evaluating the long-term leasing of toll roads which will include discussions of the economic efficiency and the protection of the public interest. The case study of the Indiana Toll Road analyzed with a Monte Carlo simulation will show the benefit of this decision and “break-even” analyses that can be conducted during a similar evaluation.

Session 90: Geofoam Transportation Applications

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: STEW 214

PDH/CEU: 1

Moderator: Bill Dubois, Patriot Engineering

Speaker and Participant:

Jim Nugent, ACH Foam Technologies

This presentation will review the history of geofoam, and describe the properties and how it addresses certain transportation and geotechnical issues. A brief review of design and installation considerations will also be provided.

Session 91: Using Tire Shreds in Lightweight Embankment Fills

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: STEW 214

PDH/CEU: 1

Moderator: Bill Dubois, Patriot Engineering

Speakers and Participants:

Monica Prezzi, Purdue University

Rodrigo Salgado, Purdue University

This presentation will provide an overview of research behind the use of tire shreds in lightweight fill applications, details for its use, and case studies for projects on which it was used.

Session 92: Case Studies in Innovative Landslide Repair and Rockfall Mitigation

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: STEW 214

PDH/CEU: 1

Moderator: Bill Dubois, Patriot Engineering

Speaker and Participant:

Nate Beard, GSI

This presentation includes five detailed case studies from roadway landslide and rock slope repairs in and around Indiana. New and innovative erosion control, landslide repair, and rockfall mitigation methods available to designers that are both robust enough to repair the most challenging geohazards and specific enough to prevent unnecessary environmental impact and delay to roadway users will be discussed.

Session 93: Recent Use of the DCP and LWD in Non-Chemically Modified Soils

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: STEW 214

PDH/CEU: 1

Moderator: Scott Roosa, Earth Exploration

Speaker and Participant:

Nayyar Siddiki, INDOT

This presentation will discuss the use of the dynamic cone penetrometer and light weight deflectometer in non-chemically modified soils.

Session 94: Selection of Suitable Ground Improvement and Geoconstruction Methods

Date: Wednesday, March 6, 2013

Time: 2:00 – 3:50 PM

Room: STEW 214

PDH/CEUs: 2

Moderator: Scott Roosa, Earth Exploration

Speaker and Participant:

Barry Christopher, Christopher Consulting

A web-based tool with 46 ground improvement and geo-construction technologies has recently been completed which will assist the user in the evaluation of these technologies for a specific application. Both temporary and permanent applications will be discussed.

Session 95: Design and Construction of Embankment with Modified Shale

Date: Wednesday, March 6, 2013

Time: 4:00 – 4:50 PM

Room: STEW 214

PDH/CEU: 1

Moderator: Scott Roosa, Earth Exploration

Speaker and Participant:

Athar Khan, INDOT

The design and construction of embankment using processed shale will be discussed. The discussion will include both mechanical and chemical modifications to improve the properties of the shale during embankment construction.



Session 96: Non-Motorized Transportation Networks

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: STEW 313

PDH/CEU: 1

Moderator: Richard Vonnegut, Hoosier Rails to Trails Council

Speakers and Participants:

Tim Burkman, City of Valparaiso

Allan Henderson, Madison County Council of Governments

Mitch Barloga, Northwestern Indiana Regional Council

Communities across Indiana are developing visions for both on-and-off-road non-motorized facilities that will provide convenient and safe options to link people, schools, businesses, parks, natural resources, and other destinations with each other as well as to adjacent communities and resources. Learn more in this session about off-road trails and on-road bike infrastructure such as bike lanes and how to combine the facilities to create a connected, non-motorized transportation network. We'll also explore the benefits to users from improved walking and cycling conditions and the various benefits to society from increased non-motorized travel, reduced automobile travel, and support for more compact land use.



Session 97: Trails as Transportation

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: STEW 313

Moderator: Richard Vonnegut, Hoosier Rails to Trails Council

Speakers and Participants:

Dale Brier, IDNR

Peter Fritz, Indiana State Department of Health

Dawn Ritchie, City of Fort Wayne

With populations concentrating in urban areas and the push for healthier living, biking and walking to work and other destinations are becoming more acceptable in the United States. With the ever-expanding network of trails in Indiana, the public is realizing the benefit of utilizing trails for daily commuting. This session will show what it takes for a community to embrace non-motorized commuters. We'll also discuss the health and financial benefits of leaving your vehicle at home. Finally, we'll get a statewide trails update from the Department of Natural Resources.



Session 98: Trail Data Acquisition

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: STEW 313

PDH/CEU: 1

Moderator: Richard Vonnegut, Hoosier Rails to Trails Council

Speakers and Participants:

Amy Hartzog, City of Fort Wayne

Greg Lindsey, University of Minnesota

Rory Robinson, National Park Service

Trail usage is one of the most frequently asked questions when planning and maintaining trails. From building justification to maintenance dollars, community leaders want to know how many people are being served by the trail. This session will explain to the attendees the different data collection methods, how the data can be collected and used, and why it is so important.



Session 99: Planning and Funding

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: STEW 313

PDH/CEU: 1

Moderator: Rory Robinson, National Park Service

Speakers and Participants:

Lori Keys, Fort Wayne Trails

Joyce Newland, FHWA

Angie Pool, Cardinal Greenway, Inc.

Bob Bronson, IDNR

Communities and non-profits have used very creative ways and very dedicated ways to help fund greenways and trails. The attendees will hear about successful ways trails have been planned and funded. Speakers will cover not only where funding can come from, but how to get it. Long-term maintenance has always been a concern, so the session will cover what you need to do to keep your trails open and useable. MAP-21 and funding for trails will also be covered in this session.



Session 100: Trends in Engineering and Design

Date: Wednesday, March 6, 2013

Time: 2:00 – 2:50 PM

Room: STEW 313

PDH/CEU: 1

Moderator: Rory Robinson, National Park Service

Speakers and Participants:

Mary Cripe, City of Goshen
Engineering Department

Alan Hamersly, Butler, Fairman &
Seufert, Inc.

Trail design and engineering are complex tasks that change as rules and technology change. The discussion in this session will cover design criteria such as drainage, wayfinding signage, road crossings and surface materials. AASHTO standards for trails will also be discussed and analyzed. Good engineering and design can make trails easier to maintain for the future and safer for your users.

Session 101: Spray Injection Patching: Modern Maintenance and Repair of Existing Pavements

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: FACW

PDH/CEU: 1

Moderator: Todd Shields, INDOT

Speaker and Participant:

Cliff Dickehut, Equipment Marketing
Company

In today's challenging economic times, agencies are looking for ways to better manage their assets. Strategies for pavement maintenance will assist in extending the life of current infrastructure. Spray injection road repair will be discussed as a strategy to improve an agencies pavement management program.

Session 102: How to Develop and Implement a Successful In-House Chip Seal Program

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: FACW

PDH/CEU: 1

Moderator: Todd Shields, INDOT

Speakers and Participants:

Bill Tompkins, INDOT

Gary Vandegriff, INDOT

This session will cover the lessons learned from the development of INDOT's in-house chip seal/ fog seal program. Presenters will discuss the methodology involved in candidate selection, material selection and logistics. Presenters will also discuss the statewide effort to provide training and support to the INDOT staff that has reintroduced this age old surface treatment as a viable, economical, and effective pavement preservation treatment.

Session 103: Combination Treatments for Pavement Preservation

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: FACW

PDH/CEU: 1

Moderator: Todd Shields, INDOT

Speaker and Participant:

Pierre Peltier, Terry Asphalt Materials, Inc.

The benefits of several common preservation treatments will be discussed. The application and special considerations for the combination of treatments including cape seals, stress absorbing membrane interlayers, fog seals over chip seals, and surface treatments over crack treatments will all be discussed. These tailored combination treatments can provide a durable and cost-effective method for improving the pavement condition.

Session 104: The Role of Asphalt Rejuvenators in Pavement Preservation

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: FACW

PDH/CEU: 1

Moderator: Dave Huffman, City of Carmel

Speaker and Participant:

Jim Brownridge, Tricor Refining

Efforts of the National Center for Pavement Preservation, the FHWA and various users groups such as AEMA, ARRA, and ISSA have brought agency managers' attention to pavement preservation. Agencies are evaluating alternatives to provide a cost-effective pavement maintenance program. This presentation will focus on the history, composition, and effectiveness of rejuvenators as well as where and how to use them to provide a lower cost maintenance alternative to push out maintenance curves.

Session 105: A Case Study on Pavement Preservation: The Town of Avon

Date: Wednesday, March 6, 2013

Time: 2:00 – 2:50 PM

Room: FACW

PDH/CEU: 1

Moderator: Dave Huffman, City of Carmel

Speakers and Participants:

Ryan Cannon, Town of Avon

Rex Hedges, Rejuvtec, Inc.

Steve Moore, VS Engineering

Shawn Strange, The Schneider Corporation

In this session presenters will discuss how the town of Avon has implemented and managed their pavement preservation program. This proactive program which began in the late 1990's, resulted in good roads, a good overall network rating and an overall reduction in construction costs. Presenters will discuss the assessment of the road network, selection of treatments, and candidate selection. Representatives from the agency, contractor, and engineering firm will be on hand to discuss ideas and answer questions.

Session 106: HMA in Indiana: The Last 50 Years

Date: Wednesday, March 6, 2013

Time: 3:00 – 3:50 PM

Room: FACW

PDH/CEU: 1

Moderator: Dave Huffman, City of Carmel

Speaker and Participant:

Ron Walker, INDOT

This session will provide an overview of the use of hot mixed asphalt over the last 50 years. INDOT will provide a history and detail the processes used previously and today for managing their pavements with hot-mix asphalt.

Session 107: Asphalt 101

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: STEW 302

PDH/CEU: 1

Moderator: Bill Knopf, APAI

Speakers and Participants:

Brian Crume, E&B Paving, Inc.

Gerry Huber, Heritage Research

This presentation will provide an overview of the basics and best practices of the asphalt paving process, the variety of products that can be made, as well as how RAP can be used. Mix designs and their associated applications will also be discussed.

Session 108: High RAP Mixes

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: STEW 302

PDH/CEU: 1

Moderator: Bill Knopf, APAI

Speakers and Participants:

John Ayers, Hendricks County

Gerry Huber, Heritage Research

This presentation will provide the design perspective on high RAP mixes and provide discussion from a local agency on their use of these types of mixes.

Session 109: Warm Mix Technology Implementation Guidelines for Counties, Cities, and Towns

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: STEW 302

PDH/CEU: 1

Moderator: Bill Knopf, APAI

Speaker and Participant:

Randy West, National Center for
Asphalt Technology

An excerpt from the Fall 2005 National Center for Asphalt Technology (NCAT) newsletter states “Warm-Mix Asphalt (WMA) technology allows the mixing, lay down, and compaction of asphalt mixes at significantly lower temperatures compared to hot mix asphalt (HMA). The technology can reduce production temperatures by as much as 30 percent.” This session will provide an overview of warm-mix asphalt, its associated technical details, benefits and how agencies can specify this mix in their bid documents.

Session 110: Full-Depth Reclamation of Pavements

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: STEW 302

PDH/CEU: 1

Moderator: Jerry Larson, Indiana Ready Mixed Concrete Association

Speakers and Participants:

Mark Cox, Independent Contractor

Anthony Jarem, Soil and Materials Engineers, Inc.

Full-depth reclamation (FDR) is a process in which deteriorated roadways are recycled in place to create a new stabilized base course. The processes include pulverizing the existing pavement and base, adding stabilizing agents, grading, compaction, and constructing a new wearing surface. This presentation will provide an overview of these processes as well as a recent case study in its use.



Session 111: Recent Successes of Roller-Compacted Concrete

Date: Wednesday, March 6, 2013

Time: 2:00 – 2:50 PM

Room: STEW 302

PDH/CEU: 1

Moderator: Jerry Larson, Indiana Ready Mixed Concrete Association

Speakers and Participants:

Ron Peltz, A. G. Peltz Group LLC

Jason Richmond, E&B Paving, Inc.

Several agencies across Indiana have found useful applications for roller-compacted concrete (RCC). This session will discuss the basics of roller-compacted concrete, along with the benefits it has for certain conditions. After the formal presentation, a panel of agencies who have successfully utilized RCC will be available for questions and answers. The information presented and discussed here will help decisions makers when weighing RCC as a possible solution.

Session 112: Concrete Overlays and Concrete Pavement Repair/Rehab Case Studies

Date: Wednesday, March 6, 2013

Time: 3:00 – 3:50 PM

Room: STEW 302

PDH/CEU: 1

Moderator: Jerry Larson, Indiana Ready Mixed Concrete Association

Speakers and Participants:

Mike Byers, Indiana Chapter ACPA

Christopher Tull, CRT Concrete Consulting

This dual-topic session highlights where and how concrete overlays provide optimum performance as well as “best practices” for concrete pavement repair.

Session 113: Sustainable Concrete Pavements

Date: Wednesday, March 6, 2013

Time: 4:00 – 4:50 PM

Room: STEW 302

PDH/CEU: 1

Moderator: Jerry Larson, Indiana Ready Mixed Concrete Association

Speaker and Participant:

Lori Tiefenhale, Lehigh Hanson

Find out how concrete pavement can lower your carbon footprint. Advances in pavement design, material science, construction technologies, and pavement preservation, rehabilitation, and recycling methods make Portland Cement Concrete Pavement (PCCP) even “greener.”

Session 114: New LPA Application Process

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 am

Room: STEW 310

PDH/CEU: 1

Moderator: Victoria Evans, INDOT

Speakers and Participants:

Mike Cales, INDOT

Victoria Evans, INDOT

This session will guide LPAs through the “NEW” on-line LPA project application process. All LPAs who anticipate applying for a project in 2013 and beyond should attend. To supplement the presentation, INDOT will have help sessions where LPAs can drop in and get hands-on practice using sample project applications (see Sessions 43 and 117, described on pages 41 and 85).

Session 115: LPA Project Development Basics-101

Date: Wednesday, March 6, 2013

Time: 9:00 – 10:50 AM

Room: STEW 310

PDH/CEUs: 2

Moderator: Victoria Evans, INDOT

Speakers and Participants:

Kathy Eaton-McKalip, INDOT

Victoria Evans, INDOT

This session is designed specifically for newly elected officials and newly designated Employees of Responsible Charge. This class will provide basic instruction and resources regarding the role and responsibility of the LPA in delivering their LPA Transportation Project. Resources will be provided, expectations set, and the basic requirements of project development explained.

Session 116: LPA Financials 101 & 102

Date: Wednesday, March 6, 2013

Time: 1:00 – 2:50 PM

Room: STEW 310

PDH/CEUs: 2

Moderator: Brenda Fox, INDOT

Speakers and Participants:

Jeff Clanton, INDOT

Molly Nash, INDOT

This is a hands-on workshop for LPAs, with team findings discussed after each module

Financials 101: Using teams, LPAs will review a series of pre-prepared LPA-Consultant Contracts and cost proposal documentation to learn techniques to finding and eliminating common errors and cost inconsistencies.

Financials 102: Working in a team format, LPAs will review a series of invoices learning how to avoid common mistakes and recognize ineligible charges. LPAs will also learn how to manage and address rejected invoices.

Session 117: LPA Application Assistance

Date: Wednesday, March 6, 2013

Time: 8:00 – 10:50 AM

1:00 – 4:50 PM

Room: STEW 311

Moderator: April Schwering, INDOT

This is a drop-in session that provides LPAs an opportunity to get hands-on practice using the new on-line application. This drop-in session provides practice and one-on-one assistance to supplement the information provided in the guided presentation in Sessions 41 and 117 (see pages 40 and 83). This room will be open for walk-in practice starting on March 5th at 11:00 AM and continuing on March 6th during Road School hours.

Session 118: Everyday Road Safety and Updates in the Safety Program

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: STEW 314

PDH/CEU: 1

Moderator: Mike Holowaty, INDOT

Speakers and Participants:

Rick Drumm, FHWA

Laura Slusher, Purdue University

This presentation will discuss methods that can be used to improve safety as a part of routine activities. Safety program updates related to MAP 21 will also be discussed.

Session 119: Improving Roadway Safety Using Safety Data and Proven Countermeasures

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: STEW 314

PDH/CEU: 1

Moderator: Mike Holowaty, INDOT

Speaker and Participant:

Rick Drumm, FHWA

Using safety data, roads at any level can be made safer and decisions can be made to do this in a cost-effective way. This presentation will focus on using data analysis to help focus on making the best improvements for safety on an agency's roads. Discussion on the 9 proven safety countermeasures for implementing these improvements will follow.

Session 120: Traffic Safety Site Investigation

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: STEW 314

PDH/CEU: 1

Moderator: Mike Holowaty, INDOT

Speaker and Participant:

Alan Holderread, INDOT

This session will discuss the best practices that can be used to conduct a safety investigation at an intersection or on a segment of roadway. Discussion will center on practical methodologies to collect and analyze crash data, review roadway geometric factors, and consider operational conditions that may lead to the selection of cost effective safety improvements.

Session 121: Rail-Highway Crossing Safety Program in Indiana

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: STEW 314

PDH/CEU: 1

Moderator: Laura Slusher, Purdue University

Speaker and Participant:

Kevin Knoke, INDOT

Indiana is one of the top five states in the nation for the number of rail crossings and for the number of serious crashes at rail crossings. This presentation will cover rail-highway crossing safety performance trends, the safety investigation process, and a discussion of rail safety programs.

Session 122: New Version of RoadHAT for Analyzing Safety Projects

Date: Wednesday, March 6, 2013

Time: 2:00 – 2:50 PM

Room: STEW 314

PDH/CEU: 1

Moderator: Laura Slusher, Purdue University

Speaker and Participant:

Andrew Tarko, Purdue University

This session will present a new version of the Road Hazard Analysis Tool (RoadHAT2), which has been improved to be more user-friendly and to include analysis of Indiana county and city roads.

Session 123: Rumble Stripes: Opportunity to Improve Safety and Retroreflectivity

Date: Wednesday, March 6, 2013

Time: 3:00 – 3:50 PM

Room: STEW 314

PDH/CEU: 1

Moderator: Laura Slusher, Purdue University

Speakers and Participants:

Thomas Brennan, Purdue University

Alan Plunkett, INDOT

Bill Smith, INDOT

Painted rumble stripes can provide safety benefits as well as improved retroreflectivity and paint durability. This presentation will cover specifications and construction techniques. A case study will describe the recent application of rumble stripes on US 231 between Crawfordsville and Lafayette, Indiana.

Session 124: MUTCD Revisions and Sign Upgrades

Date: Wednesday, March 6, 2013

Time: 4:00 – 4:50 PM

Room: STEW 314

PDH/CEU: 1

Moderator: Laura Slusher, Purdue University

Speakers and Participants:

Jill Palmer, The Schneider Corporation

Karen Stippich, FHWA

This presentation will provide an overview of Revisions 1 and 2 to the National MUTCD, their impact and associated compliance dates. Recent case studies on inventory development and sign management will be discussed.

Session 125: Design Visualization and Dynamic Assignment of Traffic Volumes

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: STEW 202

PDH/CEU: 1

Moderator: Ed Cox, INDOT

Speakers and Participants:

Paul Jarboe, American Structurepoint, Inc.

Amanda Johnson, American Structurepoint, Inc.

Ting Wei, American Structurepoint, Inc.

Design visualization for transportation projects is important for public outreach and facilitating stakeholder communications. Incorporating dynamic objects such as traffic elements can help in illustrating how the facility operates. This presentation will discuss the selection of design visualization products as well as best practices for their use. The presentation will also provide a discussion of Dynamic Assignment of Traffic Volumes (DTA) which takes driver expectations into consideration and provides a way for traffic engineers to evaluate traffic demand within a network based on impedance identified in the network.



Session 126: Accessing and Using INDOT Traffic Data

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: STEW 202

PDH/CEU: 1

Moderator: Ed Cox, INDOT

Speaker and Participant:

Greg Katter, INDOT

This session will offer demonstrations of the types of data and reports that are available on INDOT's web site and suggestions of how the data can be used by designers and planners. Assumptions and application of the various published adjustment factors will be covered along with a discussion of updates to the process of collecting and warehousing the data will be included.

Session 127: Usefulness of Bypass Lanes in Roundabouts

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: STEW 202

PDH/CEU: 1

Moderator: Ed Cox, INDOT

Speakers and Participants:

Jeromy Grenard, American
Structurepoint, Inc.

Jason Rowley, RW Armstrong

Bypass lanes have safety and operational impacts on both motorists and pedestrians. This presentation will discuss preliminary roundabout design with an emphasis on bypass lanes and roundabout spacing. Presentation will also discuss the interaction between roundabouts and traffic signals and roundabouts that are very close to other roundabouts.

Session 128: Updated Parameters for Roundabout Design

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: STEW 202

PDH/CEU: 1

Moderator: Jay Grossman, Elkhart County

Speaker and Participant:

Alex Hainen, Purdue University

Field observations of 260,000 vehicles entering a Carmel roundabout were recently performed and compared with roundabout headway values identified in NCHRP Report 572. This presentation will discuss methods for data collection, analysis of the data, comparisons to the values from NCHRP 572 and considerations when using the basic traffic engineering parameters associated with these situations.

Session 129: Consultant Prequalification for Roundabout Design

Date: Wednesday, March 6, 2013

Time: 2:00 – 2:50 PM

Room: STEW 202

PDH/CEU: 1

Moderator: Jay Grossman, Elkhart County

Speakers and Participants:

Craig Parks, American Structurepoint, Inc.

John Wright, INDOT

INDOT is planning to implement a prequalification requirement for the design of roundabouts because of the unique characteristics associated with their design. This presentation will discuss those characteristics and outline the process being proposed for prequalification of engineers performing design, review, and inspection of roundabout projects.

Session 130: Improving the Performance of Highway-Railway Crossings

Date: Wednesday, March 6, 2013

Time: 3:00 – 3:50 PM

Room: STEW 202

PDH/CEU: 1

Moderator: Jay Grossman, Elkhart County

Speaker and Participant:

Jerry Rose, University of Kentucky

Technology will be described for rapidly renewing crossings in as little as one day, using a panel system with specifically designed layered support and premium materials. A discussion of long term performance of these systems will be included.

Session 131: Ohio River Bridges Traffic/ITS Benefits & Features

Date: Wednesday, March 6, 2013

Time: 4:00 – 4:50 PM

Room: STEW 202

PDH/CEU: 1

Moderator: Jay Grossman, Elkhart County

Speakers and Participants:

Edward Cox, INDOT

Hillary Lowther, INDOT

This presentation will cover the new ITS deployment on Ohio River Bridges (ORB) project as well as how it will tie into the new system that INDOT is currently deploying in this region. The presentation will also cover information on how the new bridges will impact traffic flow and operations throughout the region.

Session 132: Deicing Science for Non-Scientists: How Do Deicers Work Anyway?

Date: Wednesday, March 6, 2013

Time: 8:00 – 8:50 AM

Room: STEW 206

PDH/CEU: 1

Moderator: Kenneth Einselen, Miami County
Highway

Speaker and Participant:

Joe Althouse, Occidental Chemical
Corporation

This session will describe how the science of deicing applies to application rates (melting capacity), application timing (melting speed), and the influence of pavement temperature (re-freeze). With improved understanding of the underlying science, winter operation staff will be better positioned to successfully adjust techniques and strategies to ever-changing weather patterns and public expectations.

Session 133: Ice Melt Products: Are Deicer Performance Claims Well-Substantiated?

Date: Wednesday, March 6, 2013

Time: 9:00 – 9:50 AM

Room: STEW 206

PDH/CEU: 1

Moderator: Kenneth Einselen, Miami County
Highway

Speaker and Participant:

Joe Althouse, Occidental Chemical
Corporation

Literature for different ice melters describe their performance at melting in different temperatures, environmental friendliness, impact on pavement materials, pets, and vegetation. Managers tasked with purchasing winter maintenance products need effective tools for evaluating different products. This presentation will discuss the different attributes and ways to compare the products available.

Session 134: Using High-Resolution Weather Data to Improve Winter Weather Maintenance Operations

Date: Wednesday, March 6, 2013

Time: 10:00 – 10:50 AM

Room: STEW 206

PDH/CEU: 1

Moderator: Kenneth Einselen, Miami County Highway

Speaker and Participant:

Michael Baldwin, Purdue University

Substantial resources are required for winter maintenance operations. This presentation will focus on more accurate and precise weather information that can help reduce the uncertainty related to winter weather, resulting in improved decision-making and significant cost savings for winter operations.

Session 135: Calibration and Maintenance for Municipal Deicing Equipment

Date: Wednesday, March 6, 2013

Time: 1:00 – 1:50 PM

Room: STEW 206

Moderator: Phil Ivy, INDOT

Speaker and Participant:

Mark Cornwell, Sustainable Salting Solutions, LLC

Proper calibration of salt spreaders can impact an agency's ability to control the cost associated with using deicing products as well as the ability to effectively measure the performance of a type of deicing chemical. Improved asset management and environmental decisions can be made with the ability to monitor the amount of chloride that is being applied.

Session 136: Use of Liquid Routes for Winter Maintenance

Date: Wednesday, March 6, 2013

Time: 2:00 – 2:50 PM

Room: STEW 206

PDH/CEU: 1

Moderator: Phil Ivy, INDOT

Speakers and Participants:

Bryan Donze, INDOT

Stacy Flick, INDOT

Jim Scheffer, INDOT

This presentation will provide a discussion of the use of liquid routes for winter maintenance in INDOT's LaPorte District.

Session 137: A Review of the Impact of Deicers on the Environment

Date: Wednesday, March 6, 2013

Time: 3:00 – 3:50 PM

Room: STEW 206

PDH/CEU: 1

Moderator: Phil Ivy, INDOT

Speaker and Participant:

Todd Royer, Indiana University

The use of deicers, such as road salt, has unquestionable benefits for transportation and public safety. Deicers also have various environmental impacts. This presentation will review the impacts of road salt runoff on aquatic systems, including acute and chronic toxicity, salinization of groundwater, and the potential for incomplete lake mixing due to salinization of the bottom layers of water.



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9	GAI Consultants, Inc.	Zone 3
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15	ASC Group Inc	Zone 2
16	Avery Dennison	Zone 2
17	Lawson-Fisher Associates P.C.	Zone 2
18	Indianapolis Testing Laboratory	Zone 2
19	Asphalt Pavement Association of Indiana (APAI)	Zone 2
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22	Hanson Professional Services	Zone 2
23	United Consulting	Zone 2
24	Reading Rock, Inc.	Zone 2
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27	Emergency Radio Service (ERS)	Zone 2
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29	Ennis-Flint Trading Inc.	Zone 2
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31	SealMasters Indianapolis	Zone 3
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33	Highway Safety Specialists	Zone 3
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36	Kessler Soils Engineering Products	Zone 3
37	D2 Land & Water Resources	Zone 3
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39	Rudd Equipment Company	Zone 3
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43	Williams Aerial & Mapping, Inc.	Zone 1
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43 42 41 40

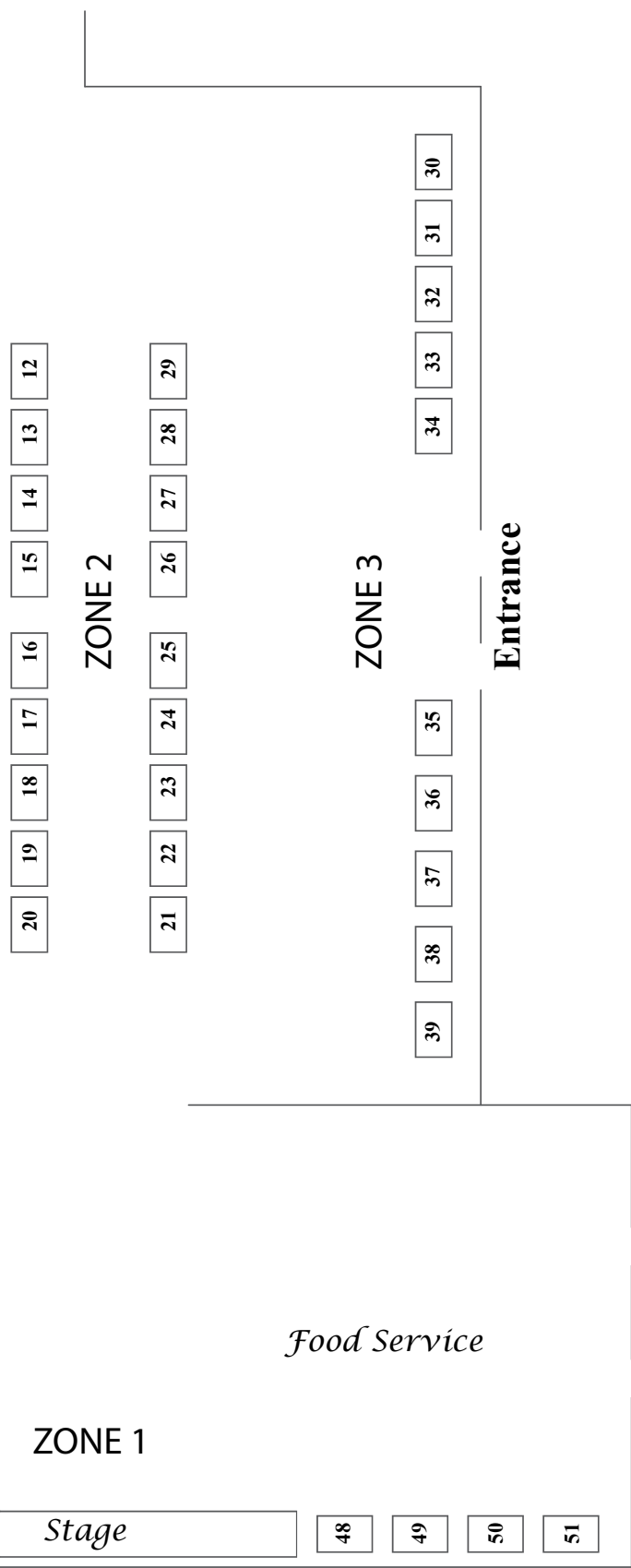
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2013 Road School Exhibitor Floor Plan

Tuesday, March 5

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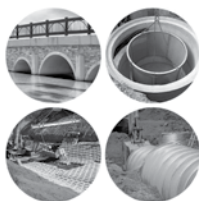
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