ITE GREAT LAKES DISTRICT ANNUAL MEETING

DRIVING TRANSPORTATION FORWARD

Omni Severin Hotel
Indianapolis, Indiana

April 14 & 15, 2014
Stay Connected to the Conference

Event ID: 1127-0588
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Dear Great Lakes District ITE Members and Guests:

It is my pleasure to welcome you to Indianapolis, Indiana. The 2014 Great Lakes District ITE Annual Meeting will include exhibits, technical tours, presentations, poster displays, and the always exciting Student Traffic Bowl! This is a great opportunity to make new contacts in the public and private sector and we encourage you to mingle.

The Omni Severin is right in the heart of downtown Indianapolis! We are steps from the Cultural Trail with a tour scheduled for Tuesday and a Monument Tour on Monday. We are surrounded by interesting sites, including Union Station, Lucas Oil Stadium and Monument Circle. This meeting will be fun and educational, enjoy the local bars after Traffic Bowl and the Sponsor Event on Monday night.

Our Local Arrangements Committee (LAC), chaired by Sandra Jones, has worked tirelessly for over a year to make this a memorable event. I would like to thank Sandra and all the volunteers for their efforts to provide presentations and events encompassing innovative, forward thinking concepts and designs.

I know you find the meeting educational as well as fun. Thank you for attending and enjoy your stay in Indianapolis.

Sincerely,

Colleen Hill-Stramsak, PE, PTOE
President and International Director, Great Lakes District ITE
Dear Guests:

On behalf of the Local Arrangements Committee, I would like to welcome you to Indianapolis. Indianapolis is a great place to be a part of. While famous for fast cars, our city is winning praise for reinventing the bicycle and pedestrian experience in our downtown. The Indianapolis Cultural Trail has been called “an astonishing and amazing vision” by national civic-development experts. Join us on Tuesday as we meet in the technical session to learn about this trail and then head outside to see The Cultural Trail first hand.

Two downtown landmarks, Monument Circle and Indiana War Memorial Plaza, are among America's great urban spaces. The Circle centers the city and furnishes its “Circle City” calling card. The 24-acre plaza (think greenspace and monuments, like Washington, D.C.'s National Mall) gives Indy the distinction of devoting more acreage to honoring veterans than any other city; it's second to D.C. in number of war memorials. The plaza, a National Historic Landmark, represents one of our defining traits: serving the country. Join us on Monday as we take to the City and tour the Memorial trail. Please sign up at the Information/Registration Table to secure your place for this tour.

I would like to thank the Local Arrangements Committee for their dedication in planning this annual meeting. Their continued involvement in monthly and then weekly planning meetings, while also working their full time jobs, has made this meeting an event I am proud to host in Indianapolis.

Thank you for your participation,

Sandra L. Jones, PE
2014 Local Arrangements Committee Chair
Meet the Keynote Speakers

Mayor Gregory Ballard

Gregory A. Ballard was elected the 48th Mayor of Indianapolis on November 6, 2007 and was re-elected to a second term on November 8, 2011.

Since taking office, Mayor Ballard has presided over six consecutive balanced budgets. He has tasked his administration with increasing efficiencies in city government, improving the level of service to residents and to continue growing Indianapolis as a destination for businesses and families. For example, in 2010 Mayor Ballard launched RebuildIndy, an unprecedented $400 million+ initiative to rebuild deteriorating and long-neglected thoroughfares, residential streets, sidewalks, and bridges throughout Marion County.

Mayor Ballard is committed to creating and promoting a culture of inclusiveness for business opportunities, economic growth and sustainability for minority, women and veteran business enterprises. Mayor Ballard’s leadership has helped to develop a more stable, affordable and pro-growth economic environment in Indianapolis. He continues to focus on attracting new businesses and encouraging existing companies to expand here.

Adam Thies

Adam D. Thies, AICP, is the Director of the Department of Metropolitan Development for the City of Indianapolis, Indiana, the country’s 12th largest city. In this role, Mr. Thies oversees and administers the Divisions of Planning and Zoning, Community Economic Development, Historic Preservation and the Metropolitan Planning Organization. Additionally, Mr. Thies serves as a strategic planning advisor to the Mayor of Indianapolis on long term redevelopment and economic development initiatives.

Prior to this appointment, Mr. Thies served as the President and Owner of EDEN Collaborative. Founded in 2004, EDEN led and managed many of Indiana’s premiere planning and design projects including planning for the Super Bowl 2012 Legacy Neighborhood Project, the redesign of Indianapolis’ Monument Circle and the creation of plan for Midtown Indianapolis.

In his career as a city planner and strategist, Adam has been the manager and/or lead consultant for over $7 million dollars in planning consulting projects, guiding tens of millions of dollars in private and public sector infrastructure and new private real estate development.
7:30 AM - 8:30 AM    REGISTRATION & COFFEE

8:30 AM - 10:00 AM    WELCOME & KEYNOTE SPEAKER
                                Severin Lobby

♦ Welcome
    Mayor Greg Ballard, Indianapolis

♦ Transportation and Land Use: We can be Best Friends
    Adam Thies, Director of the Department of Metropolitan
    Development, City of Indianapolis

10:00 AM - 10:30 AM    BREAK
                                Exhibits & Poster Session Displays
                                Severin Terrace and Mezzanine
10:30 AM - 12:00 PM  **TECHNICAL SESSION 1**

### Breakout 1-A: Traffic Safety I

**Moderator:** John Gallagher, Carpenter Marty Transportation

**Gates Room**

- **Two Decades of Highway Safety in Indiana: The Last 10 Years and the Next 10**
  Rick Drumm, FHWA & Mike Holowaty, Indiana DOT

- **A Systematic Approach to Roadway Safety**
  Laura Slusher, Indiana LTAP

### Breakout 1-B: Design/Engineering

**Moderator:** Jeff Hill, Town of Fishers

**McClellan Room**

- **Crosswalk Design Considerations and Methodology: The State of the Practice**
  Jason Zogg, DTE Energy

- **Franklin County Ohio’s BBI: A Bridge Bypass Intersection**
  Mike Meeks, Franklin County (Ohio)

- **Methods of Considering Non-Traditional Intersection Designs**
  Brad Steckler, Indiana DOT

12:00 PM - 1:30 PM  **LUNCH**  

**Severin Lobby**

- **ITE International Vice President Candidates**
  - Paula F. Benway, Stantec Consulting, Inc.
  - Raymond E. Davis, TrafficDuco, Inc.

- **Update by Hibbett Neel, International ITE Director**
Day 1: Monday, April 14, 2014

1:30 PM - 2:30 PM  TECHNICAL SESSION 2

Breakout 2-A: Signal Operations
Moderator: Steven Loveland, OHM Advisors
Gates Room

- Using High-Resolution Signal Data for Maintenance Management
  Jay Grossman, Elkhart County (Indiana)

- Design Guidelines and Conditions that Warrant Deploying Fully Actuated Coordination
  Chris Day, Purdue University

Breakout 2-B: Freight Operations
Moderator: TBD
McClellan Room

- Michigan’s Truck Parking Information & Management System
  Matthew Junak, HNTB
  Collin Castle, Michigan DOT
  Pat Johnson, HNTB

- Freight Planning and Logistics
  Jack Kimmerling & Bob Zier, Indiana DOT

2:30 PM - 3:00 PM  BREAK
Exhibits & Poster Session Displays
Severin Terrace and Mezzanine
DAY 1: MONDAY, APRIL 14, 2014

3:00 PM - 4:00 PM  TECHNICAL SESSION 3

Breakout 3-A: Traffic Safety II
Moderator: Jamal Adhami, SHA Engineering
Gates Room

♦ Deployment of Portable Traffic Signals
  David Krahulec, Horizon Signal Technologies

♦ An HSM Case Study: The I-270/US 33 Interchange
  Andrew Wolpert, CH2M HILL

Breakout 3-B: Sustainability
Moderator: TBD
McClellan Room

♦ Value of the Envision Rating System for Transportation Projects
  Cassie Reiter, Crawford, Murphy & Tilly

♦ Cleveland Innerbelt DB Bridge Sustainability Measures
  Dave Wenzel, HNTB

4:00 PM - 4:30 PM  BREAK
Exhibits & Poster Session Displays
Severin Terrace and Mezzanine

4:30 PM - 6:00 PM  TRAFFIC BOWL
Severin Ballroom

6:30 PM - 9:00 PM  EVENT SPONSOR RECEPTION
Claddagh Irish Pub
DAY 2: TUESDAY, APRIL 15, 2014

8:00 AM - 9:00 AM  REGISTRATION & COFFEE

9:00 AM - 10:00 AM  Technical Session 4

Breakout 4-A: Traffic Safety III
Moderator: Ericka Miller, Parsons Brinckerhoff
Gates Room

♦ Safety-Related Behavior of Car and Truck Drivers at Roundabouts on High-Speed Roads
  Thomas Hall, Purdue University

♦ INDOT’s Approach to Incorporating New Luminaire Technology into Our Lighting Systems
  David Boruff & Lalit Garg, Indiana DOT

Breakout 4-B: Planning
Moderator: Ehren Bingaman, HNTB
McClellan Room

♦ Re-Imagine Washtenaw
  Neal Billetdeaux, SmithGroupJJR
  Sarah Binkowski, Parsons Brinckerhoff

♦ Transportation Simulation Modeling and Planning Applications
  Roy Nummally, Indiana DOT

10:00 AM - 10:30 AM  BREAK  
Exhibits  
Severin Terrace and Mezzanine
Day 2: Tuesday, April 15, 2014

10:30 AM - 12:00 PM  Technical Session 5

Breakout 5-A: Bus Rapid Transit (BRT)
Moderator: Kimberly Mills, Parsons Brinckerhoff
Gates Room

♦ Grand Rapids Silver Line BRT: Final Design and Construction
  Todd Davis, CDM Smith

♦ BRT Planning in Indianapolis: Fitting the Service to the Corridor
  John Myers & Matthew Miller, HNTB

♦ Health Line Final Design & Construction
  Steve Goodreau, CDM Smith

Breakout 5-B: Indianapolis Cultural Trail
Moderator: Tony Jones, INDOT
McClellan Room

♦ The Indianapolis Cultural Trail: A Model for 21st Century Sustainable Transportation and Infrastructure Design (includes tour of trail)
  Kevin Osburn, Rundell Ernstberger Associates
  Mark Zwoyer, CHA Companies

12:00 PM - 1:30 PM  Lunch
  Severin Lobby

♦ Section President Update
♦ District Updates
♦ ITS World Congress Update
1:30 PM - 2:30 PM  TECHNICAL SESSION 6

Breakout 6-A: Performance Management
Moderator: TBD
Gates Room

♦ Spatially Referenced Probe Data Performance Measures for Infrastructure Investment Decision Makers
  Stephen Remias, Purdue University

♦ Offset and Sequence Optimization of Diamond Interchanges Using High Resolution Event Based Data
  Alex Haiman, Purdue University

Breakout 6-B: Complete Streets
Moderator: Gary Mroczka, URS
McClellan Room

♦ Woodward Avenue Complete Streets: 27 Mile Historic Corridor
  Barb Arens, Parsons Brinckerhoff

♦ I-70/71 Columbus Crossroads: ODOT’s Pilot Complete Street Project
  Tom Hibbard, MS Consultants

2:30 PM - 3:00 PM  BREAK
Exhibits
Severin Terrace and Mezzanine
3:00 PM - 4:00 PM  TECHNICAL SESSION 7

Breakout 7-A: Connected Vehicles
Moderator: Doug Valmore, ITE Indiana
Gates Room

♦ Implications of Connected and Autonomous Vehicles for Transportation System Operations
  Richard Beaubien, Beaubien Engineering

Breakout 7-B: Funding & Finance
Moderator: Hardik Shah, American Structurepoint
McClellan Room

♦ Sharing the Money Tree: Getting Projects Built
  Ariana Jeske, Prein & Newhof

♦ A P3 Case Study: US 50 and McCarty Street Interchange–Jefferson City, Missouri
  Brian Eads, Crawford, Murphy & Tilly, Inc.

4:00 PM  ADJOURN
Moving Transportation Forward
**Monday, April 14, 2014**

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<tr>
<td>7:00 AM</td>
<td>Registration and Coffee</td>
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<td>Welcome and Keynote Speaker</td>
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<td>8:00 AM</td>
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<td>8:30 AM</td>
<td>Session 1-A* Traffic Safety I</td>
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<td>9:00 AM</td>
<td>Session 1-B* Design/Engineering</td>
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<td>9:30 AM</td>
<td>Lunch with VP Candidates</td>
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<td>10:00 AM</td>
<td>Session 2-A* Signal Operations</td>
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<td>Session 2-B* Freight Operations</td>
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<td>Session 3-A* Traffic Safety II</td>
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<td>12:00 PM</td>
<td>Session 3-B* Sustainability</td>
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<td>Traffic Bowl &amp; Reception</td>
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*Session A will be held in the Gates Room (Mezzanine Level)  
Session B will be held in the McClellan Room (Mezzanine Level)
**OVERVIEW OF TECHNICAL PROGRAM**

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<td>Session 4-A* Traffic Safety III</td>
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<td><strong>BREAK</strong></td>
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<td>Session 5-A* Bus Rapid Transit (BRT)</td>
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<td>Lunch with Section Presidents</td>
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<tr>
<td>Session 6-B* Complete Streets</td>
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<td><strong>BREAK</strong></td>
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<tr>
<td>Session 7-A* Connected Vehicles</td>
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*Session A will be held in the Gates Room (Mezzanine Level)*

*Session B will be held in the McClellan Room (Mezzanine Level)*
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Booth #8
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A&E Engineering Co., LLC is now in our 48th year of providing civil engineering and construction inspection services to local government agencies and private developers. Working closely with our clients, our talented professionals create high quality, cost-effective engineering solutions for site design, road design, traffic management solutions, pedestrian safety planning and many other aspects of the transportation system development process.

A&E Engineering has grown exponentially over the past four decades. Our one-room, four-person organization has grown into a multi-disciplined practice that encompasses a variety of fields within the transportation engineering industry.

The Indiana Chapter of the American Concrete Pavement Association was founded in 1986 as a Trade Association representing Concrete Paving Contractors, Cement Manufacturers and Shippers, and suppliers involved in the construction of Portland Cement Concrete Pavement.

Our mission is to sustain & grow State/Local Roadway and Airport Bidding Opportunities throughout Indiana for our Contractor Members through technical and educational engagement with decision makers and pavement design professionals.

We support our members and their customers in the construction of Cost Competitive, Quality Pavements that provide long-term service to taxpayers, commerce and traveling public in Indiana.
American Structurepoint’s award-winning team understands how to move your project from concept to completion. We provide a wealth of experience and resources dedicated to helping make your vision a reality. Since opening our doors in 1966, our mission has been to improve quality of life through our commitment to communities. Offering strength in numbers, stability that lasts, and innovative solutions, we provide complete consulting and comprehensive design services.

American Structurepoint offers a comprehensive array of services for a wide range of clients, including local municipalities, state and federal agencies, and the private sector. Our multi-disciplinary professionals have the resources and expertise to address concerns in such a holistic, sustainable, and systematic manner that we uncover solutions that save millions of dollars through efficiency and maximization of resources.

Carrier & Gable
Farmington Hills, Michigan
Contact: Dan Carrier
dancarrier@carriergable.com
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www.carriergable.com

Carrier & Gable is celebrating our 69th anniversary providing traffic control solutions to Michigan and over 20 years in Indiana. Our goal is to provide the best quality product and back it up with unsurpassed support. Carrier & Gable offers over 30 training/educational classes annually at no cost to our customers, focusing on traffic controller beginning/advance, transportation control systems, detection systems, wired and wireless communications, data collection, crash cushion design and maintenance.

C&G is proud to distribute and support some of the top names in the traffic industry such as Siemens, Iteris, Sensys, Proxim, Encom, Trinity / Energy Absorption, MDI, Eberle Design and many others. Please visit us online to see all of our solutions. On behalf of the 35 sales and support staff covering Michigan and Indiana, we hope you enjoy the ITE Great Lakes District Meeting.
CHA is a multi-disciplined engineering and construction management firm operating globally. Its 1,250 employees serve a spectrum of market sectors: aviation, environmental, federal, manufacturing, power & energy, sports, and transportation. Founded more than a half-century ago, the firm serves public and private clients including schools, hospitals, government, utilities, and a range of businesses.

Named "Design Firm of the Year" by a prestigious trade publication, CHA has been growing rapidly, even through the economic malaise of the early 2000s.

HNTB
Indianapolis, Indiana
Contact: Matthew Miller
mkmiller@hntb.com
317.636.4682
www.hntb.com

Celebrating 100 years of service, HNTB’s contributions can be seen among the largest and most complex projects across the country. HNTB serves clients in the transportation, architecture and federal markets with integrity, technical excellence, and a commitment to providing quality work. HNTB serves as the GEC to more toll agencies than any other firm, and is one of the top choices to state departments of transportation, transit authorities, and the nation’s largest airports. In a survey conducted by Roads & Bridges magazine, HNTB ranked as a top design firm in the categories of bridges (No. 1), mass transit (No. 2), and roads and highways (No. 3). Innovative planning and design techniques, coupled with leading-edge management capabilities, are the hallmark of HNTB’s professional services.
Hubbell, Roth & Clark, Inc.  
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chill@hrc-engr.com  
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www.hrc-engr.com

For over 99 years, HRC has been providing professional engineering, environmental engineering and architectural services to municipal, industrial and private clients in Michigan, in addition to servicing various national clients. HRC provides Transportation and Traffic Engineering services to solve the problems of urban traffic congestion, traffic safety, transportation mobility, and highway design. As a full service, multi-disciplined firm, HRC is comprised of 140 engineers, professional surveyors, architects, technicians and support staff, including LEED AP accredited professionals. HRC has offices in Bloomfield Hills, Grand Rapids, Howell, Detroit, and Delhi, Michigan.

Parsons Brinckerhoff  
Indianapolis, Indiana  
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Parsons Brinckerhoff has operated in Indianapolis since 1997, and has 50 professionals in roadway, structures, hydraulics, traffic, planning, geotechnical, tunneling, transit, right-of-way engineering, construction inspection, utility coordination, and water/wastewater. Founded in New York City in 1885, Parsons Brinckerhoff is a diverse company of 14,000 people in more than 150 offices internationally, and provides additional services in strategic consulting, program management, operations, aviation, power, mining, community development, and public involvement. Parsons Brinckerhoff tied for #1 in road and highway design on the basis of client response, #2 in bridge design and #4 in design-build in Roads and Bridges Magazine’s 2011 Go To List of Top Design Firms in the U.S. (www.pbworld.com).
Siemens Industry
West Bloomfield, Michigan
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www.siemens.com

Siemens is your partner to develop an intelligent and economical transportation solution that will increase the quality of life in your city by improving safety, energy efficiency and traffic-flow, while generating revenue and reducing costs. With the most comprehensive portfolio of integrated transportation products, services and solutions, Siemens keeps America moving.

Traffic Control Corporation
Granger, Indiana
Contact: Chip Lang
clang@trafficcontrolcorp.com
574.243.0901
www.trafficcontrolcorp.com

Traffic Control Corporation (TCC) was founded in 1946 as a distributor of traffic signal equipment and is firmly established as the local expert on traffic control matters in the Midwest. Today, Traffic Control Corporation has a territory that includes nine states throughout the Midwest. We are one of the largest distributors in the United States offering products from over 40 different manufacturers.

Always staying ahead of the curve on advancing technology and changing traffic management needs has allowed Traffic Control Corporation to serve the region over the last 65 years. The success of Traffic Control Corporation is predicated on our knowledge, experience and, most of all, attentiveness to our markets and our clients. TCC manufacturing/warehouse facilities are located in Woodridge, IL along with regional offices in St. Louis, MO; Minneapolis, MN; and Granger, IN.
Valmont Structures
Valley, Nebraska
Contact: Steve Bates
sbtraffic@msn.com
317.506.0706
www.valmont.com

Valmont is a premier manufacturer of engineered support structures that consist of traffic, sign, lighting, communication, and custom products. Their designs are available for street, highway, utility, and municipal applications. Valmont has been represented by Steve Bates since 1994 and can be reached at 317.506.0706 or sbtraffic@msn.com.

Poster Presentations

Verifying the Service Life of Asset Interventions Using Enhanced Econometric Techniques: A Case Study for Indiana
Eleni Bardka, Samuel Labi, John Haddock, Purdue University

Graphical Performance Measures for Practitioners to Triage Split Failure Trouble Calls
Rick Freije, Purdue University

Improving Intersection Behavior Through Delay-Based Left-Turn Phase Initiation
Steven Lavrenz, Purdue University

High Speed Evacuation of Wireless Magnetometer Vehicle Matching Speed Estimation
Stephen Remias, Purdue University

Are Current Traffic Signal Head Placement Design Standards Adequate?
Michael Schrader, Wayne State University
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Monday AM 4/14  Keynote Speaker
☐ Transportation and Land Use: We can be Best Friends  1.0 PDH

Monday AM 4/14  Technical Session 1
☐ A: Traffic Safety I  1.5 PDH
☐ B: Design/Engineering  1.5 PDH

Monday PM 4/14  Technical Session 2
☐ A: Signal Operations  1.0 PDH
☐ B: Freight Operations  1.0 PDH

Monday PM 4/14  Technical Session 3
☐ A: Traffic Safety II  1.0 PDH
☐ B: Sustainability  1.0 PDH

Tuesday AM 4/15  Technical Session 4
☐ A: Traffic Safety III  1.0 PDH
☐ B: Planning  1.0 PDH

Tuesday AM 4/15  Technical Session 5
☐ A: Bus Rapid Transit (BRT)  1.5 PDH
☐ B: Indianapolis Cultural Trail  1.5 PDH

Tuesday PM 4/15  Technical Session 6
☐ A: Performance Management  1.0 PDH
☐ B: Complete Streets  1.0 PDH

Tuesday PM 4/15  Technical Session 7
☐ A: Connected Vehicles  1.0 PDH
☐ B: Funding & Finance  1.0 PDH
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