Conference Proceedings of the 93rd Annual Purdue Road School March 6-8, 2007

CHAIRMEN

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

and

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

PROGRAM COORDINATOR

Karen S. Hatke
Program Coordinator
Joint Transportation Research Program

Purdue University
West Lafayette, Indiana

Engineering Extension Series
No. 178
Purdue University

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

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

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

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

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

- College of Engineering Schools
  - Aeronautics and Astronautics
  - Chemical
  - Civil
  - Electrical and Computer
  - Industrial
  - Materials
  - Mechanical
  - Nuclear Engineering

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

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

at

Purdue University

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

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

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Road School 2007 Presenters

Access Management in Indiana

Daniel G. Buck  Transportation Planner  INDOT  317 - 232 - 5480  dbuck@indot.in.gov
Dennis Bruce  Project Coordinator  City of Fort Wayne  260 - 427 - 1172  dennis.bruce@ci.ft-wayne.in.us
Jerry Gluck  Senior Vice President  Urbitran Associates, Inc.  212 - 763 - 4522  jgluck@urbitran.com
Matt Vondran  Principal Transportation Planner  Northeastern Indiana Regional Coordinating Council  260 - 449 - 7309  matt.vondran@co.allen.in.us
Michael Eckert  Manager of Technical Services  Allen County Highway Department  260 - 449 - 7369  mike.eckert@co.allen.in.us

Addressing the High Cost of Poor Traffic Conditions

Guy Boruff  Director, Public Safety Operations  INDOT  317 - 899 - 8605  gboruff@indot.in.gov
Paul Olson  ITS Technology Engineer  FHWA Resource Center  720 - 963 - 3239  paul.olson@fhwa.dot.gov
Ryan Gallagher  Director, Division of Traffic Control Systems  INDOT  317 - 232 - 5545  rgallagher@indot.in.gov

Asphalt Pavements for Local Governments

Dave Andrewski  Pavement Engineering Manager  INDOT  317 - 232 - 5452  dandrewski@indot.in.gov
Dudley Bonte  Regional Quality Control Director, Indiana  Rieh-Riley Construction Co., Inc.  317 - 634 - 5561  mdbonte@rieth-riley.com
Gerry Huber  Associate Director of Research  Heritage Research Group  317 - 390 - 3141  gerald.huber@heritage-enviro.com
Kumar P. Dave  Pavement Design Engineer  INDOT  317 - 233 - 5279  kdave@indot.in.gov

Back to Basics: Interchange Layout and Design

Allen R. Egilmez  Transportation Department Manager  United Consulting Engineers, Inc.  317 - 895 - 2585  allene@ucea.com
Jeffrey Shaw  Safety/Design Engineer  FHWA Resource Center  708 - 283 - 3524  jeffrey.shaw@dot.gov
Michael Rowe  Project Team Leader  United Consulting Engineers & Architects  317 - 895 - 2585  miker@ucea.com
Back to Basics: Management Systems at the Strategic Level
Andy Fitzgerald  Acting Manager, Systems Analysis and Planning  INDOT  317 - 232 - 5149  afitzgerald@indot.in.gov
Bill Flora  Pavement Management Engineer  INDOT  317 - 233 - 1060  wflora@indot.in.gov

Back to Basics: Project Scoping
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Gary Mroczka  Director, Production Management Division  INDOT  317 - 232 - 5226  gmroczka@indot.in.gov

Back to Basics: Sidewalks
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Basics of Roadway Safety
Jerry L. Larson  Promotions Manager, Northern Region  Indiana Ready Mixed Concrete Association  765 - 490 - 4124  jlarson@irmca.com
Laurie Johnson  Project Manager  DLZ Indiana  574 - 236 - 4400  ljohnson@dlz.com
Rick O. Drumm  Safety Engineer  FHWA  317 - 226 - 7487  rick.drumm@fhwa.dot.gov

Can You Hear Me Now?
Ben Lawrence  Environmental Policy Administrator  INDOT  317 - 233 - 1164  blawrence@indot.in.gov
Gene Lamberson, P.E.  Consulting Structural Engineer  E.A. Lamberson, P.E. PC.  765 - 404 - 5396  glamberson@sugardog.com

Context Sensitive Solutions: Their Impact on Local Neighborhoods
Kate Zale  Project Manager  The Schneider Corp.  317 - 826 - 7370  kzale@schneidercorp.com
Nola Albrecht  Landscape Architect  Schneider Corporation  317 - 826 - 7321  nallbrecht@schneidercorp.com
Norman Garrick  Professor of Civil Engineering  University of Connecticut  860 - 486 - 2990  norman.garrick@uconn.edu
### County Highway Issues

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Company/Institution</th>
<th>Phone</th>
<th>Email</th>
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<tbody>
<tr>
<td>Eric Conklin</td>
<td>Manager, Office of Technical Services</td>
<td>INDOT</td>
<td>317 - 233 - 1059</td>
<td><a href="mailto:econklin@indot.in.gov">econklin@indot.in.gov</a></td>
</tr>
<tr>
<td>Eric Rader</td>
<td>Supervisor Road Inventory</td>
<td>INDOT</td>
<td>317 - 232 - 5482</td>
<td><a href="mailto:wrader@indot.in.gov">wrader@indot.in.gov</a></td>
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<tr>
<td>Jay Longenecker</td>
<td>Sales Representative</td>
<td>Asphalt Materials, Inc.</td>
<td>317 - 228 - 8200</td>
<td><a href="mailto:jay.longenecker@asphalt-materials.com">jay.longenecker@asphalt-materials.com</a></td>
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<tr>
<td>Joe Mayfield</td>
<td>Sales Engineer</td>
<td>U.S. Aggregates, Inc.</td>
<td>765 - 564 - 2580</td>
<td><a href="mailto:joe.mayfield@usagg.com">joe.mayfield@usagg.com</a></td>
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<tr>
<td>John Habermann</td>
<td>Research Engineer/Indiana LTAP</td>
<td>Purdue University</td>
<td>765 - 496 - 6584</td>
<td><a href="mailto:jhaber@ecn.purdue.edu">jhaber@ecn.purdue.edu</a></td>
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<tr>
<td>Ramzi Awwad</td>
<td>County Engineer</td>
<td>Carroll County</td>
<td></td>
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<tr>
<td>Tom Busch</td>
<td>Sales Engineer</td>
<td>Engineering Aggregates Corp.</td>
<td>574 - 721 - 4266</td>
<td><a href="mailto:TOMBUSCH@SBCGLOBAL.NET">TOMBUSCH@SBCGLOBAL.NET</a></td>
</tr>
<tr>
<td>Tom Kouns</td>
<td>Supervisor</td>
<td>Boone County Highway Department</td>
<td>765 - 482 - 4550</td>
<td><a href="mailto:tkouns@co.boone.in.us">tkouns@co.boone.in.us</a></td>
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### Don't Muddy the Water!

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Michelle Allen</td>
<td>Administrator, Ecology and Permit Unit</td>
<td>INDOT</td>
<td>317 - 232 - 5135</td>
<td><a href="mailto:mballen@indot.in.gov">mballen@indot.in.gov</a></td>
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<tr>
<td>Rick Phillabaum</td>
<td>Environmental Permits Supervisor</td>
<td>INDOT</td>
<td>317 - 233 - 5151</td>
<td><a href="mailto:rphillabaum@indot.in.gov">rphillabaum@indot.in.gov</a></td>
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<tr>
<td>Sara Slater-Atwater</td>
<td>Wetlands Project Manager</td>
<td>IDEM</td>
<td>317 - 234 - 1221</td>
<td><a href="mailto:sslater@idem.in.gov">sslater@idem.in.gov</a></td>
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### Emerging Technologies in Concrete

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<tr>
<td>Jason Weiss</td>
<td>Professor of Civil Engineering</td>
<td>Purdue University</td>
<td>765 - 494 - 2215</td>
<td><a href="mailto:wjweiss@purdue.edu">wjweiss@purdue.edu</a></td>
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<tr>
<td>Scott Haislip</td>
<td>Director of Streets and Roads</td>
<td>American Concrete Pavement Association</td>
<td>219 - 629 - 3194</td>
<td><a href="mailto:shaislip@pavement.com">shaislip@pavement.com</a></td>
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<tr>
<td>Tommy Nantung</td>
<td>Section Manager</td>
<td>INDOT</td>
<td>765 - 463 - 1521</td>
<td><a href="mailto:tnantung@indot.in.gov">tnantung@indot.in.gov</a></td>
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### Equipment Issues

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<tr>
<td>Jon Lantz</td>
<td>Vice President, Marketing</td>
<td>Countrymark Cooperative LLP</td>
<td>317 - 372 - 1158</td>
<td><a href="mailto:jlantz@countrymark.com">jlantz@countrymark.com</a></td>
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<tr>
<td>Larry Campbell</td>
<td>Fleet Manager</td>
<td>City of Fort Wayne</td>
<td>260 - 427 - 5291</td>
<td><a href="mailto:larry.campbell@ci.ft-wayne.in.us">larry.campbell@ci.ft-wayne.in.us</a></td>
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<tr>
<td>Zack Ellison</td>
<td>Director of Customer Technical Support</td>
<td>Cummins, Inc.</td>
<td>812 - 343 - 0674</td>
<td><a href="mailto:zack.d.ellison@cummins.com">zack.d.ellison@cummins.com</a></td>
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GASB 34 Affects All Local Agencies

Bill Williams  Monroe County Highway Director / Engineer  Monroe County Highway Department  812 - 349 - 2555  bwilliams@co.monroe.in.us
Charlie Pride  Supervisor-Cities, Towns, and Libraries  State Board of Accounts  317 - 232 - 2521  cpride@sboa.in.gov
Lisa Ridge  Operations Manager  Monroe County Highway Department  812 - 349 - 2555  lridge@co.monroe.in.us
Mike Nielsen  Director  Government Fixed Asset Services, Inc.  773 - 298 - 0289  nielsen@fixedassetservices.com

Hearings, Meetings, and the Media…Oh My! Part I

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Jennifer Tate  Communications Specialist  INDOT  317 - 234 - 1213  jtate@indot.in.gov
Joshua Bingham  Public Information Director  INDOT LaPorte  219 - 325 - 7455  jbingham@indot.in.gov
Marvin L. Jenkins  Public Information Director  INDOT Seymour  812 - 524 - 3733  mjenkins2@indot.in.gov
Megan Kaderavek  Communications Specialist  INDOT  317 - 232 - 8558  mkaderavek@indot.in.gov
Shelley Haney  Communications Specialist  INDOT  317 - 233 - 4676  shaney@indot.com
Stacie McCormick  Public Information Director  INDOT Fort Wayne  260 - 399 - 7330  smccormick@indot.in.gov
Will Wingfield  Public Information Director  INDOT Greenfield District  317 - 467 - 3479  wwingfield@indot.in.gov

Hearings, Meetings, and the Media…Oh My! Part II

Rickie Clark  Manager, Office of Public Hearings  INDOT  317 - 232 -6601  rclark@indot.in.gov
**Hoosiers Bike Everywhere**
Chuck Fearnaw  Director  Indiana Bicycle Coalition  317 - 259 - 7910  cfearnaw@iupui.edu
Connie Szabo Schmucker  Bicycle Consultant  317 - 257 - 5607  BikeVisionary@comcast.net
Dawn Ritchie  Greenways Manager  City of Fort Wayne  260 - 427 - 6002  dawn.ritchie@ci.ft-wayne.in.us
Jim Coryell  Vice President, Market Research  Marketing Informatics  317 - 788 - 4440  jim.coryell@marketinginformatics.com
Jon Fricker  Professor of Civil Engineering  Purdue University  765 - 494 - 2205  fricker@purdue.edu
Roger Stevens  League Certified Instructor  League of American Bicyclists  317 - 926 - 6272  rsteven@ind.com

**Identifying the Select**
Amy Squitieri  Vice President  Mead & Hunt, Inc.  608 - 273 - 6380  amy.squitieri@meadhunt.com
Mary E. Kennedy  Architectural Historian  INDOT  317 - 232 - 5215  mkennedy@indot.in.gov

**Indiana Street Commissioners Meeting: ADA Issues**
Ed Ratulowski  Senior Transportation Engineer  FHWA  317 - 226 - 7342  edward.ratulowski@fhwa.dot.gov

**Indiana Street Commissioners Meeting: Legal Issues and Sidewalks**
Andrew P. Wirick  Partner  Hume Smith Geddes Green & Simmons, LLP  317 - 632 - 4402  awirick@humesmith.com

**INDOT Meeting: We Are Not Perfect**
Ron Heustis  Manager, Construction Technical Support  INDOT  317 - 234 - 2777  rheustis@indot.in.gov

**INDOT Training Programs Available**
Bob McCullough  IT Administration/JTRP  Purdue University  765 - 494 - 0643  bgm@ecn.purdue.edu
Len Gritzer  Highway Technician Academy Program Director  INDOT  317 - 232 - 6769  LGRITZER@indot.in.gov

**Let the Data Drive Your Decisions**
Andy Fitzgerald  Acting Manager, Systems Analysis and Planning  INDOT  317 - 232 - 5149  afitzgerald@indot.in.gov
Dave Andrews  Pavement Engineering Manager  INDOT  317 - 232 - 5452  dandrewski@indot.in.gov

Tuesday, May 29, 2007
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<td>Jeanette Wilson</td>
<td>Local Federal-Aid Program Manager</td>
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<tr>
<td>Chris Hostetler</td>
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<td>Don Edmonson</td>
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<tr>
<td>Greg P. Ressler</td>
<td>Territory Manager</td>
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<tr>
<td>Jerry E. Thompson, P.E.</td>
<td>Maintenance Engineer</td>
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<tr>
<td>Mark Bowman</td>
<td>Professor of Civil Engineering</td>
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<tr>
<td>Randy Collins</td>
<td>Health and Safety Director</td>
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<tr>
<td>Steve Giese</td>
<td>Operations Manager</td>
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<tr>
<td>Steve Rninger</td>
<td>Roadway Maintenance Liaison</td>
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<td>Todd Shields</td>
<td>Pavement Preservation Engineer</td>
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<td>Paul Harrison</td>
<td>Indiana State Police Officer/Trooper</td>
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<td>David Schilling</td>
<td>Customer Service Manager</td>
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<tr>
<td>Jeff Clanton</td>
<td>Contracts Manager</td>
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<tr>
<td>John Morton</td>
<td>Director - Contract Administration</td>
</tr>
<tr>
<td>Martha G. Kenley</td>
<td>Director/Attorney, Division of Economic Opportunity</td>
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New Directions in Estimating
Dan Stickney  Construction Cost Manager  INDOT  317 - 234 - 4794 dstickney@indot.in.gov
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New Federal Funding in Federal FY 2007
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No Employee Left Behind: The Principals of Change
Al Crispo  Associate Professor  Organizational Leadership  Purdue University  765 - 494 - 5609 alwc@purdue.edu
Dan Lybrook  Associate Professor  Organizational Leadership  Purdue University  765 - 494 - 7676 lybrood@purdue.edu

Opening Session
Doug Rose  Deputy Administrator  Maryland State Highway Administration  410 - 545 - 0361 drose@sha.state.md.us
Karl Browning  Commissioner  INDOT  317 - 232 - 5526 kbrowning@indot.in.gov

Planning Issues with MPOs
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Sue A. Beesley  Attorney  Bingham McHale LLP  317 - 635 - 8900 sbeesley@binghammchale.com

Roundabouts: Exploding the Myths
Wes Butch  Transportation Planning Manager  DLZ Corporation  517 - 393 - 6800 wbutch@dlz.com

Tuesday, May 29, 2007
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<td>What Works When: Communicating Effectively</td>
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2007 Official Purdue Road School Program

2007 Purdue Road School Attendance History

2007 Road School Speaker Contact List

Access Management in Indiana  
  Dan Buck/Jerome Gluck  
  Matt Vondran

Addressing the High Cost of Poor Traffic Conditions  
  Guy Boruff  
  Ryan Gallagher  
  Paul Olson  
  Karen Stippich

Asphalt Pavements for Local Governments  
  Dave Andrewski  
  Dudley Bonte

Back to Basics: Management Systems at the Strategic Level  
  Andy Fitzgerald/Bill Flora

Back to Basics: Sidewalks  
  Bob Eichner

Can You Hear Me Now?  
  Gene Lamberson, P.E.  
  Ben Lawrence

Don’t Muddy the Water!  
  Michelle Allen  
  Sara Slater-Atwater

Equipment Issues  
  Zack Ellison

GASB 34 Affects All Local Agencies  
  Lisa Ridge/Bill Williams  
  Mike Nielsen

Hearings, Meetings, and the Media...Oh My! (Part I)  
  INDOT Public Relations Staff

Hoosiers Bike Everywhere  
  Jim Coryell  
  Dawn Ritchie

Identifying the Select  
  Mary Kennedy/Chuck Koeppel  
  Amy Squitieri

INDOT Meeting Part II – We Are Not Perfect  
  Ron Heustis

Let the Data Drive Your Decisions  
  Dave Andrewski  
  Andy Fitzgerald
Maintenance Issues
   Todd Shields

New Developments in Consultant Contracting
   John Morton/Jeff Clanton

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   Pamela Drach
   Corey Hull

   Mike Holowaty

Safety Issues I
   John Nagle

Transportation Issues
   Gerald Rawling
Indiana Partnership For Highway Quality Achievement Award 2007

**Contractor:** Rieth-Riley Construction Co, Inc.

**Designer:** Strand Associates, Inc.

**Project & Owner:**
R-26096-A, Michigan Road / US 421
INDOT, Crawfordsville District
IPHQ AWARD: PAVEMENT URBAN OVER $5,000,000
Project R-26096-A: US 421/Michigan Road
Alan Plunkett, Jay Harris, Doug Lawrence, Rodney Lemke, Bill Hawkins, Larry Mills
Indiana Partnership For Highway Quality
Achievement Award 2007

Contractor:
E & B Paving, Inc.

Designer:
INDOT, Fort Wayne District

Project & Owner:
R-28091, State Road 19 - Amboy, IN
INDOT, Fort Wayne District
IPHQ AWARD: PAVEMENT RURAL UNDER $3,000,000

Project R-28091: St Rd 19 through Amboy, Indiana
Brian Rensberger, Tony Korba, Mike Korba, Jim Keefer
Indiana Partnership For Highway Quality Achievement Award 2007

Contractor: E & B Paving, Inc.

Designer: Rundell Ernstberger Associates, LLC & Butler, Fairman, Seufert, Inc.

Project & Owner: R-28529 Phase 2, McKinley Avenue Safety Improvement Project - Ball State University
IPHQ AWARD: SPECIAL PROJECTS OVER $2,000,000
R-28529: McKinley Avenue Phase 2
Michael Sommer, Chris Wheatley, Brian Johnson
Indiana Partnership For Highway Quality Achievement Award 2007

Contractor: JBI Construction, Inc.  

Project & Owner: R-28806-B, SR 56 Bike/Pedestrian Facilities  
INDOT, Vincennes District
IPHQ AWARD: SPECIAL PROJECTS UNDER $2,000,000
R-28806-B: SR 56 Bike–Pedestrian Facilities
Sam Sarvis, Mike Hinton, Jim Gulick, Keith Lochmueller, Bart Mueller, Elliott Sturgeon, Rusty Fowler, Tim Sigler, Harlen Metzger
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