

Program Planning Committee

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Lee Smithson, AASHTO SICOP (Snow and Ice Pooled Fund Cooperative Program) Coordinator

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Call for Abstracts
Mid-Continent Transportation Research Symposium • Iowa State University, Ames, IA August 20-21, 2009

Abstracts due
Monday, February 27, 2009

ctre
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IOWA STATE UNIVERSITY

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ISU Research Park
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Return Service Requested

Mid-Continent Transportation Research Symposium

Partnerships for America's Transportation Systems August 20–21, 2009, Iowa State University, Ames, Iowa

On August 20–21, 2009, Iowa will host its seventh biennial transportation research symposium.

We are especially interested in implementable solutions for challenges experienced by federal and state departments of transportation, cities, and counties.

Call for Abstracts

Researchers are invited to submit an abstract of a formal paper by Feb. 27. We welcome abstracts representing broad perspectives in the transportation community:

- Consultants
- Engineers
- Planners
- Practitioners
- Universities
- Public agencies
- Industry associations

The abstract may focus on

- Your own research
- Use and benefits of research
- Implemented products of research

Abstract Format

Prepare a brief abstract clearly summarizing your proposed paper. Organize the abstract as follows:

1. Author(s) (for each author: name, title, affiliation, address, e-mail, telephone)
2. Paper title
3. Abstract (no longer than 500 words or two double-spaced pages, including figures and tables)
4. List of key words

A sample abstract is available online, www.ctre.iastate.edu/events/midcon2009/.

Submit Your Abstract Online

Submit an abstract (.doc or .pdf) at www.ctre.iastate.edu/events/midcon2009/. You will receive e-mail confirmation when your abstract has been received.

Abstracts due February 27, 2009

Notice of Acceptance

Authors of abstracts accepted for presentation at the symposium will be notified by e-mail about April 10, 2009.

These authors will be expected to register for the symposium and present their paper. They will be encouraged to submit a full paper, presentation, and/or extended abstract by June 1, 2009, for electronic publication in the symposium compendium on CD and online.

Abstract Review Criteria

Abstracts will be reviewed by a committee of regional transportation professionals based on one or more of the following criteria (not necessarily in this order):

- The abstract includes a clearly defined research concept, objective, and results or expected results.
- Research provides practical solutions for current and future transportation problems.
- The paper will offer valuable insights or results.
- The abstract is written clearly and succinctly.
- Research results will include tangible findings or products (technology, equipment, processes, etc.).

For More Information

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515-294-1866
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This symposium covers a broad spectrum of transportation issues, ranging from advances in infrastructure design to transportation policy. Several concurrent sessions will be offered, each focused on a specific topic.

Potential topic categories are listed below. These are only examples. Abstracts on other relevant topics and covering any transportation mode are welcome.

National issues

- Infrastructure development and financing
- Emergency preparedness and response
- Emerging technologies
- Vehicle infrastructure integration
- Transportation security
- Transportation energy use and the environment
- Transportation workforce development
- Data needs, integration and management
- Climate change and transportation

Modes (freight and passenger)

- Highway (auto-truck)
- Public transit
- Waterborne
- Rail
- Air
- Non-motorized (pedestrian and bicycle)

Structures and construction

- Bridges and structures
- Accelerated bridge construction (ABC)
- Long term bridge performance programs
- Utility accommodations
- Management (QA/QC)
- Contracting

Traffic and safety

- Enforcement
- Traffic engineering
- Traffic operations
- Work zone safety
- Safety engineering
- Crash modeling, simulation and testing
- Driver behavior
- Human factors
- In-vehicle systems
- Emergency medical response

Planning, modeling, and logistics

- Land use
- Roadside considerations
- Access management
- Transportation and land use modeling
- Travel behavior modeling
- Asset management
- Bio-economy impacts
- Freight corridors
- Business logistics

Finance

- Road user fees, taxes, charges, pricing
- Innovative financing
- Financing large projects

Highway engineering and construction

- Road design and specifications
- Roundabouts
- Utility accommodations
- Construction practices
- Construction management
- Expedited construction
- Local systems

Materials

- Asphaltic materials
- PCC
- Non-traditional materials
- Bio-economy based materials

2009 Symposium Sponsors

Iowa Department of Transportation

Iowa State University's

Center for Transportation Research and Education

Department of Civil, Construction, and Environmental Engineering

Midwest Transportation Consortium

The University of Iowa's

Department of Civil and Environmental Engineering

Department of Industrial and Mechanical Engineering

Public Policy Center

University of Northern Iowa

University of Wisconsin's National Center for Freight & Infrastructure Research & Education

Wisconsin Department of Transportation

Pavements (asphalt and PCC)

- Materials
- Design
- Construction
- Maintenance

Geotechnical engineering

- Intelligent compaction
- RTK-GPS
- Soil-structure interaction
- Ground improvement

Road weather research and programs

- Ground level meteorology
- Winter road maintenance
- Maintenance decision support systems
- Road Weather Information Systems
- Winter road maintenance performance measurement

Road maintenance

- Techniques and practices
- Materials
- Equipment

Environment

- Air quality
- Alternative fuels for transportation
- Energy (fuel cells, hybrid vehicles)
- Environmentally sensitive areas
- Environmental justice
- Water quality
- Wetland mitigation

Hydrology

- Drainage
- Hydrology

Technology considerations

- Emerging technologies
- GIS applications
- GPS applications
- Smart materials
- Nano-technologies

Education and knowledge transfer

- Workforce development: K-12, undergraduate and graduate programs, non-degree programs
- Enhancing skills of practitioners
- Distance education
- Implementation techniques