

MVFC Conference & Annual Meeting

April 27-29, 2010 Cincinnati, Ohio

National Center for Freight and Infrastructure Research & Education (CFIRE)

Jason Bittner & Teresa Adams April 27, 2010



CFIRE

VISION:

The National University Transportation Center at the University of Wisconsin-Madison will be an internationally recognized authority and resource that creates knowledge, advances understanding, develops technologies, and prepares leaders to meet the nation's need for safe, efficient and sustainable infrastructure for the movement of goods.

MISSION:

To advance technology, knowledge, and expertise in the planning, design, construction and operation of sustainable freight transportation infrastructure through education, research, outreach, training and technology transfer at the University of Wisconsin-Madison and its partner institutions.

THEME:

Sustainable Freight Transportation Infrastructure and Systems

CFIRE STARS

- Design, Materials & Construction Processes for Highway, Harbor & Rail Infrastructure – Prof. Mike Oliva
- Multimodal Systems Planning and Optimization – Prof. Jessica Guo
- Traffic Operations and Safety Prof. David Noyce
- Energy and Environment Prof. Tracey Holloway

National Responsibility

National Transportation Centers:

The role of each center shall be to advance significant transportation research on critical national transportation issues and to expand the workforce of transportation professionals (from SAFETEA-LU)

Transformational Change:

- Sustainable Freight Transportation Infrastructure and Systems
 - Economic
 - Environmental
 - Social

CFIRE and the MVFC

- Key partners and crossrepresentation
- W-Madison's CFIRE provides \$125,000 annually for MVFC efforts
- Project leadership
- Administrative services

CFIRE Team



CFIRE Faculty



David Noyce Associate Director Traffic Operations & Safety



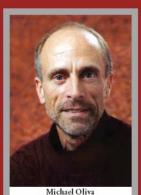
Jason Bittner Deputy Director



Ernie Wittwer Mississippi Valley Freight Coalition Facilitator



Greg Waidley Research & Education Programs Coordinator



Associate Director Design, Materials, & Construction Processes



Tracev Holloway Associate Director **Energy & Environment**



Jessica Guo Associate Director Multimodal Systems Planning & Optimization

CFIRE Staff



Steve Wagner Communications



Bob Gollnik, Jr Researcher



Jessie Hanz University Services Associate





























Students

















Engineering



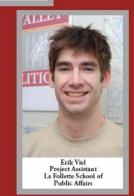
Engineering





























Context for Transportation

Safety

Improving the safety of U.S. transportation facilities and systems.

Livability

Improving the quality of living and working environments.

Economic Competitiveness

Contributing to the economic competitiveness of the United States.

Sustainability

Improving energy efficiency, reducing dependence on oil, reducing greenhouse gas emissions and benefitting the environment.

State of Good Repair

Improving the condition of existing transportation facilities and systems, with particular emphasis on projects that minimize lifé-cycle costs.

CFIRE Research Efforts

- Grant Year 4 Projects Currently Being Reviewed
 - Expect to award \$1.8 million in new projects
- Over 75 current projects, most with Midwest and regional focus
 - Examples: Air Emissions, Modeling Freight Stakeholder Behavior, Energy Use, Commodity Analysis, Intermodal Competitiveness