Presentation to Members of the Midwest Transportation Consortium
March 24, 2006
Today’s Presentation

- About Earl Newman
- About City of Springfield
- What is the Institute of Transportation Engineers
- International Perspectives (If time permits)
About Earl Newman
About Earl Newman

- Assistant Director of Public Works in Charge of Traffic Engineering for Springfield, Missouri
- Hired as City Traffic Engineer in 1974 and have served all but six years with the City.
- Worked as Office Manager for a Midwest Consulting Firm for six years (1992 – 1998) before returning to City employment
About Earl Newman

• Graduate of University of Missouri – Columbia in 1967 w/ BSCE
• Graduate of the Bureau of Highway Traffic Program at Pennsylvania State University in 1972 w/ MECE
About Earl Newman

- Registered Professional Engineer in Missouri and Arkansas
- Certified in Accident Reconstruction by Central Missouri State University
- Certified as a Professional Traffic Operations Engineer (PTOE)
About Earl Newman

- Joined the Institute of Transportation Engineers in 1972 as a Member of the Student Chapter at Penn State University
- Held elected offices at the Chapter, Section and District Levels and am currently serving as International Vice-President of ITE
- Will serve as President of ITE in 2007
About Springfield (MO)
About Springfield (MO)

Metropolitan Statistical Area (MSA) Population: 390,000+

Missouri State University
About Springfield (MO)

Third Largest Metro Area in Missouri
About Springfield (MO)

Bass Pro Headquarters  Springfield Cardinals Baseball
About Springfield (MO)

- Regional Center for Shopping, Medical, Educational Institutions & Employment
- Crossroads for Access to Branson
- Branson is just 35 miles to the South and attracts over 7 million tourists/year
- It is estimated that 80% of tourists going to Branson pass through Springfield
About Springfield

Arterials Accommodate a Majority of Trips
About Springfield

Our Freeways Have Their Own Problems
About Springfield

Partners in Progress
About Springfield

Transportation Improvement Project Referendums - Formula For Success

1. Specific Listing of Projects
2. Includes Community Priorities for Safety Improvements & Congestion Relief
3. Accountability (Funding Sunsets in 3-4 years)
4. Based on Past Record of Staying on Time Within Budget
5. Voter Approval has Reached 82%
About Springfield

Using ITS to Improve Traffic Flow
About Springfield

- Automated Email Alert System
- Transportation Management Center
- Arterial & Freeway DMS
- Web
- HAR
## 2005 National Traffic Signal Report Card

<table>
<thead>
<tr>
<th>Category</th>
<th>National Average</th>
<th>Springfield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proactive Management</td>
<td>58%</td>
<td>92%</td>
</tr>
<tr>
<td>Coordinated Signal Operation</td>
<td>61%</td>
<td>87%</td>
</tr>
<tr>
<td>Individual Signal Operation</td>
<td>73%</td>
<td>94%</td>
</tr>
<tr>
<td>Specialized Operation</td>
<td>58%</td>
<td>80%</td>
</tr>
<tr>
<td>Detection Systems</td>
<td>53%</td>
<td>87%</td>
</tr>
<tr>
<td>Maintenance</td>
<td>67%</td>
<td>82%</td>
</tr>
<tr>
<td>Total Overall Score</td>
<td>62%</td>
<td>87%</td>
</tr>
</tbody>
</table>
About Springfield

- 15 seconds of Fame
- Listed as one of the ten best performers in USA Today
- Springfield Signal System mentioned in a positive way in news reports on CNN, MSNBC, Associate Press Report
- Local Newspaper ran story three days later despite our own News Release
About Springfield

- Multi-jurisdictional Cooperation
- Citizens and City Council have made the traffic signal system a high priority with allocation of resources
- Successful leveraging of local funds with federal funds
- Commitment of staff to the support of the system
What is the Institute of Transportation Engineers (ITE)
The Leading Organization for Transportation Professionals

…for knowledge, professional development, career advancement and networking.
ITE Members . . .

• Plan, Design, Implement, Operate & Maintain Transportation Systems Around the World.

• In the public sector, members are employed at the federal, state, county and local levels of government including MPO’s.

• In the private sector, members are employed by consulting firms, and with equipment manufacturers and suppliers.

• At universities, professors may be employees of the public or private sector.
Join ITE’s Global Network

- Nearly 17,000 members
- In 90+ countries
- 10 districts
- 83 local chapters
- 130 student chapters
Student Membership

130 chapters
- 111 in the U.S.
- 9 in Canada
- 10 in other countries
- Over 3,000 student members
ITE Student Chapters

• ITE Student Chapters currently exist at the following Universities in the Midwest Consortium:
  • University of Missouri – Columbia
    • Dr. Carlos Sun, Faculty Advisor
  • Iowa State University – Ames
    • Dr. Edward Kannel, Faculty Advisor
ITE Executive Staff

Thomas W. Brahms
Executive Director and CEO

Peter W. Frentz
Associate Executive Director and CFO

Philip J. Caruso
Deputy Executive Director

Shelley J. Row
Associate Executive Director for Technical Projects
ITE Executive Director & CEO

Congratulations on 30th Anniversary as Executive Director

Thomas W. Brahms
2006 Emphasis Areas (Mega Issues)

- Workforce Development
- Safety
- Management and Operations
- Designing for All System Users
- International Aspects of ITE
- Public Image and Relations
Mega Issue - Workforce Development

- Encourage students to enter the profession
- Mentor young members to be successful in their careers
- Ensure continuing education opportunities are available for all members
Leadership Development is crucial:

• To the continued success of ITE
• To develop the skillset for leaders at all levels of ITE service
• To facilitate delivery of programs which serve the membership
• To identify and develop future leaders
• To recruit new members and retain current members
Leadership Development Action Plan

• Elected Leadership Training to be provided at all Levels. A *Free Webinar for Section / Chapter Officers is tentatively scheduled for May 24.*

• Begin a Mentoring Program for “Rising Stars”

• Create a Dynamic “Elected Leadership Manual” with Links to Other ITE Resources

• Provide New Leaders with “Welcome Packet”
Student Chapter
Officers/Faculty Advisors Webinar

Topics covered include:

• Objective of Student Chapters
• Interaction w/Section & District Members
• Networking w/Other Student Chapters
• What Works/What Doesn’t - Discussion
• Resources for Student Chapters
Student Chapter Resources

- Student Chapter Best Practices
- Manual for Student Chapter Advisors
- Action Plan for Student Chapter Initiatives
Student Chapter Resources

- Dues are waived for new student members
- Student Chapter Manual
- Example of Best Student Chapter Annual Report
Start a New Student Chapter

- Application to be submitted to District Board for approval.
- Application to include:
  - Description of your Transportation Program
  - List of Five ITE Student Members
  - Copy of Adopted Chapter By-Laws
  - Copy of Chapter Charter
  - Faculty Advisor a Member of ITE
New in 2006 - Membership in One Specialty Council Included with Dues

• Choose from Eleven Councils including:

• Contact Council Executive Committee for any council to Get Involved
ITE Members Benefit from:

- Meetings and Technical Conferences at All Levels of the Organization
- Transportation Products & Service Exhibits at ITE Meetings
- Publications
- Monthly Journal (*ITE Journal*)
- Webpage ([www.ite.org](http://www.ite.org))
Professional Development Program Fund

- 100% of contributions used to develop/update courses
- 100% of income gained from sale of Professional Development CD modules is returned to program
- Contributions are Tax deductible
Professional Development Program Fund Modules

- Series of 1-hour modules
- Designed to be taught by knowledgeable volunteers
- Each CD contains:
  - PowerPoint slides
  - Speaker notes
  - Student handbook
Professional Development Program Fund Modules

Available now!
www.ite.org/bookstore

- MUTCD 2000 and 2003 Revisions
- Traffic Signal Change Intervals – English and Spanish
- Engineering Intersections to Reduce Red-Light Running – English and Spanish
- Managing High Technology Projects in Transportation
Professional Development Program
Fund Modules

Available now!
www.ite.org/bookstore

• Fundamentals of Road Weather Management
• Introduction to Systems Engineering
• NEW! Trip Generation – Fundamentals and Applications
• NEW! Trip Generation – Advanced Concepts and Applications
ITE Web Seminars (Webinars)

- 100 Webinars and 70 Web Briefings are planned in 2006 (Cost Effective Training!)
- Review Schedule & Sign Up at www.ite.org
- Coming in April 2006
  - Innovative Bicycle Treatments
  - Developing Traffic Signal Timing Plans
  - Advanced Signal Timing Concepts
  - Ethics for the Transportation Professional
  - Using Performance Measures (Web Briefing)
Online Learning Gateway
Online Learning Courses

Available Now

- Transportation Planning—Site Impact Analysis
- Traffic Control Devices—Traffic Signal Needs Determination
- Capacity Analysis—Signalized Intersections
- Safety Analysis—Signalized Intersections
Online Learning Courses

Under Development

- Pedestrian Accessibility: Introduction and Context
- Planning for Accessible Pedestrian Rights-of-Way
- Accessible Sidewalks and Pedestrian Access
- Accessible Pedestrian Crossings
Professional Certification

Transportation Professional Certification Board Inc.

Affiliated with the Institute of Transportation Engineers
Professional Certification (PTOE)

Over 1,500 Certified Professional Traffic Operations Engineers™

PTOE is required in some job qualifications and requests for proposals for consulting projects.

PTOE Refresher Course offered as series of Webinars. Check www.ite.org for schedule.
New Certifications in 2006

- **TOPS** Traffic Operations Practitioner Specialist
- **TSOS** Traffic Signal Operations Specialist

Intended for Highly Skilled Technicians or EIT’s

First Tests in Milwaukee August 5 and at Multiple Sites in the U.S. and Canada on October 21

Textbooks and Refresher Training to be Provided Prior to the Exams
Professional Certification: What’s Next?

Transportation Planner Certification

For professionals who have a wide range of education and experience in transportation planning

First Exam planned for 2007
New Publications

Freeway and Interchange Geometric Design Handbook

Improving the Pedestrian Environment Through Innovative Transportation Design
New Publications

Context Sensitive Solutions in Designing Major Urban Thoroughfares for Walkable Communities

Transportation Impact Analyses for Site Development
New Publications – Coming Soon!

- *Planning, Designing and Engineering for Pedestrians and Bicycles: State of the Practice*
2006 Mid-Year Technical Conference
and 2006 Annual Meeting & Exhibit

March 19-22, 2006
San Antonio, TX

August 6-9, 2006
Milwaukee, WI
Future ITE Annual Meetings and Exhibits

August 6-9, 2006
Milwaukee, WI, USA

August 9-12, 2009
San Antonio, TX, USA

August 5-8, 2007
Pittsburgh, PA, USA

August 8-11, 2010
Vancouver, BC, Canada

August 17-20, 2008
Anaheim, CA, USA

August 7-10, 2011
St. Louis, MO, USA
“BRINGING ITE TO YOU”