



National Transit Institute

Advanced Technologies and Innovative Practices

Course Schedule

ITS for Transit: Solving Real Problems

Revised to incorporate some material from US DoT's 'ITS in Transit Seminar' and 'Transit Management Course'

Purpose:

The purpose of this course is to provide transit agencies with an overview of Intelligent Transportation Systems (ITS) as well as providing a means of evaluation of new technologies through Cost/Benefit Analysis.

The course emphasizes the technologies including those that are available to improve transit operations, planning, scheduling, fare collection and customer service. Providing transit agencies with this information is crucial as agencies search for cost-effective and innovative ways to provide better service. Agencies armed with this knowledge and a means to evaluate it through cost benefit analysis, can successfully determine whether deployment of new technologies are needed, and can pursue the procurement and deployment. This course is a natural precursor to NTI's course in *A Systematic Approach to Adopting New Technologies*.

Who Should Attend?

Participants will include managers, service planners, senior operational, maintenance, and fleet management staff, senior customer relations and security staff; in other words, persons interested in learning about potentially useful technologies. NTI encourages agency team participation.

Selected Topics of the Course

Some Key Topics:

- Transit Problems and Some Potential Solutions
- ITS Programs, Terminology and Standards
- Cost-Benefit Analysis Methodologies

Case studies:

- Automatic Passenger Counters
- Contactless Smart Card systems
- Estimating ITS Cost Reduction Benefits
- Traveler Information Systems

Course Developers and Instructors:

Carol Schweiger from Multisystems and Dr. Arnold Bloch from Howard/Stein-Hudson.

Schedule: June 13-14, 2000
Center for Urban Transportation (CUTR)
University of South Florida
4202 E. Fowler Avenue CUT 100
Room 202
Tampa, FL 33620-5375

Tuition: Free CEUs: 1.4

For more information please contact: Eric Bruun 732-932-1700 (extension 18)
email: ebruun@rci.rutgers.edu

Course Outline

ITS for Transit: Solving Real Problems

Day One:

Session 1: Introductions and Review of Course Agenda and Materials

- Group Exercise: Identification of Participant Issues and Needs

Session 2: Transit Problems and Potential Solutions

- Discussion of the problems being faced by transit agencies and their potential solutions. The solutions may not always involve technology!

Session 3: Introduction to ITS for Transit

- ITS and APTS Terms and Technologies
- National ITS Program Plan and National System Architecture
- National and International Standards Activities
- State of APTS Deployment in the U.S.

Session 4: APTS Systems and Subsystems: Case Study 1

- Automatic Passenger Counter Demonstration

Session 5: APTS Systems and Subsystems: Case Study 2

- Fare and Technology Coordination Project

Session 6: Cost/Benefit Analysis: What Do You Need to Justify New Technologies?

- Identification of Costs and Benefits
- Data Collection to Support Cost/Benefit Analysis
- Introduction to Applicable Cost/Benefit Analysis Methods
- Financing Schemes

Session 7: Cost/Benefit Analysis: Elements and Methods

- Fixed, Variable and Indirect Costs
- Applicable Methods

Day Two:

Session 7: Cost/Benefit Analysis: Elements and Methods (continued)

- Risks

Session 8: Cost/Benefit Analysis: Case Study 3

- Comprehensive Cost/Benefit Analysis

Session 9: Cost/Benefit Analysis: Case Study 4

- Automated Fare Collection Systems

Session 10: Putting it All Together: Case Study 5

- Development of a Multimodal Traveler Information System

Session 11: Summary and Additional Resources

- Course summary and highlights
- Internet resources and the World Wide Web

Session 12: Open Discussion of APTS and Cost/Benefits Issues

Updated schedules, course outlines and instructor biographies **and registration form** are available through: NTI Online!

<http://policy.rutgers.edu/nti/>

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U.S. Department of Transportation
Federal Transit Administration



National Transit Institute

REGISTRATION

Registration Information

Tuition includes all course materials and coffee breaks. Participants are responsible for their own travel, accommodations, and meals. Register early to avoid disappointment as enrollment is limited to 30 per class. Directions to the training site will be included with your confirmation. All training is held in accessible facilities. Please advise if you require special arrangements.

Refund Policy

Cancellation with full refund will be accepted until 14 days prior to the class. No refunds will be given for cancellations received after that date. Refunds take a minimum of five weeks to process. Those who have registered but are unable to attend may send a substitute please advise the Registrar of any substitutions.

How to Register

1. One form is required for each registrant, copies are acceptable.
2. Please TYPE or PRINT clearly.
3. Enter course names, locations and dates 00000for one or two courses.
4. Registrations will be confirmed by return mail, e-mail or fax.

Course Name	Location	Date
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Course Name	Location	Date
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Full First Name	MI	Last Name
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Title/Position	Social Security No. (required)
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Organization

Address

City	State	Zip Code
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Business Telephone	Fax	Home Phone (for emergencies only)	email
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Method of Payment

- Tuition: \$ _____
- Check enclosed (payable to Rutgers, The State University of New Jersey -NTI)
 - Purchase order attached
 - Bill my organization

Type of Agency:

- Transit MPO State DOT Federal Consulting Other _____

When Completed Mail or FAX this form to: 732-932-1707

Registrar, National Transit Institute
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