Intelligent Transportation Systems
U.S. Department of Transportation

New Opportunities for ITS Learning

Dr. Emily Parkany
Mitretek Systems

Ronald K. Giguere
ITS PCB Program Coordinator

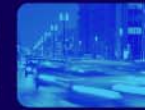National Rural ITS Conference August 15, 2006

What is ITS Professional Capacity Building?

- **Intent**
  - Expand the knowledge, skills and abilities of ITS workforce
  - Support major USDOT initiatives, regulations, etc.
  - Support ITS deployment and operations
  - Enlighten decision-makers and the public
  - Foster development of ITS professionals

What is ITS PCB? *(cont.)*

- **Scope**
  - Training
  - Education
  - Technical Assistance
  - Information Dissemination

⟶ ITS Learning

Training – A Wide Variety to meet Needs

- ITS Curriculum
  - Classroom-based training
  - Web-based training
    - Self-guided
    - Blended learning
- Talking Technology and Transportation (T3 Sessions + Archives)
- ITS Foundation Course/Operations Academy
- Professional Development
  - Certificate Programs

Classroom-Based Training

- 24 Classroom-based NHI courses: ITS and Operations
- Several apply to "rural" including:
  - Rural ITS Toolbox
  - Integrated Transportation Management for Small and Medium-Sized Communities
  - Improving Highway Safety with ITS
  - Road Weather Management
  - Managing High Technology Projects in Transportation
- http://www.nhi.fhwa.dot.gov

Web-Based Training--CITE

- FHWA-sponsored ITS web-based programs are offered by CITE

- Consortium for ITS Training and Education

- Over 29 courses, course list:

- http://www.citeconsortium.org/curriculum.html

- Mostly fee-based but educators can get access to the information for free—go to "Partners"

Web-Based Training

- Over 29 courses, to be taken asynchronously (self-guided) and/or as "blended-learning" courses
- "Blended" means that the content is learned online, assignments are prepared by specific dates and the class meets by teleconference with an instructor
- Blended courses include:
  - Managing High Technology Projects in Transportation
  - Introduction to Systems Engineering
  - Improving Highway Safety with ITS
- Additional web-based training includes:
  - Rural ITS
  - Introduction to National ITS Architecture (free)

T3s: Talking Transportation & Technology

- 90 Minute "Webinars"; Teleconference with Powerpoint slides, ask questions by chat or orally at end
- Scheduled T3s:
  - 9/7/06 1-2:30pm EST Improving Highway Safety with ITS
  - 9/12/06 1-2:30pm EST Guidelines for Successful ITS Procurement
  - 9/27/06 1-2:30pm EST ITS Decisionmakers' Resources
- To be scheduled soon:
  - Integrated Transportation Management for Small and Medium Communities
  - Configuration Management
  - Freeway Management and Operations
- All T3s are archived
- http://www.pcb.its.dot.gov/T3

ITS Foundation Course/ITS Operations Academy

- Foundation Course
  - To be offered in February/March 2007 in Minneapolis
  - 4 ½ days of ITS Instruction (Operations, Systems Engineering, etc.)
  - Federal ITS Specialists are invited as well as other federal personnel
- Operations Academy
  - March 2007 in Baltimore area
  - Two weeks
  - Sponsored by I-95 Corridor Coalition and FHWA

Professional Development

- Updated classroom-based courses offer CEU credit
- CITE Certificates
  - ITS Project Management (two core courses may be classroom-based)
  - Traffic Engineering and Systems
  - ITS Systems
- NHI Certificate(s) under development
  - Incident Management
  - Systems Engineering

Education

- Formal Relationships with Universities/UTC's
  - University Course Catalog
  - Professor access to PCB Materials
  - Educational resources on new PCB web pages
  - Programs to produce ITS proficient graduates
  - Local professional development opportunities
- Partnership with Consortium on ITS Training and Education (CITE)—access to all materials by faculty for matriculated students

www.pcb.its.dot.gov

- Provides listings of available ITS training and education opportunities by market category: practicing ITS professionals, university, middle and high school

- Presents information on local PCB and university programs

- Presents links to technical assistance resources (described further below)

- Presents features: ITS Story, Testimonials, ITS Champions

The ITS Professional Capacity Building Program
Learning Resources for Today and Tomorrow's ITS Workforce

Intelligent Transportation Systems
U.S. Department of Transportation

Search
Advanced

Type search terms

Learning Opportunities for:
- Practicing ITS Professionals
- ITS Federal Field Staff
- University Students
- Middle/High School Students
- All Learning Opportunities

Local ITS PCB

Technical Assistance
- ITS Learning Center
- Communities of Practice
- Peer-to-Peer Program
- ITS Federal Field Staff

Featured Resources
- Testimonials & Champions
- University Research
- The ITS Story
- ITS PCB Online Newsletter

PCB Program Information
- About the ITS PCB Program
- Contacts
- Links

Welcome to the ITS PCB Program Website!

The USDOT's ITS Professional Capacity Building Program provides flexible ITS learning and professional development opportunities to public sector employees. Through these learning opportunities, public agencies can build and sustain a capable and technically proficient ITS workforce, and individuals can enhance their knowledge, skills and abilities.

This website links you to a range of learning opportunities delivered by our PCB program partners, universities, and university transportation centers aimed at current ITS professionals. The site also emphasizes ITS learning opportunities for today's students — tomorrow's ITS workforce.

Other PCB program resources include the ITS Leaning Center, the ITS Peer to Peer Program, and the T3 Program, all of which provide direct, in-depth ITS technical assistance. These resources complement the learning opportunities offered by the curricula of the PCB program and its partners' resulting in the continuous technical development of our Nation's ITS workforce.

What's New
- NHI updates course on Systems Engineering
- NTI launches course on Transit Farecard standards
- T3 session on International ITS standards draws 275

News archive

T3 Headquarters

Next T3 Session:
February 24 on "Linking the Regional ITS Architecture and the Transportation Planning Process."
- T3 Schedule
- T3 archives

Blended Learning

Blended learning text here. More blended learning text. More blended learning text. More blended learning text.

Calendar

April 2006

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Privacy Statement   ITS JPO   Feedback   Site Map

Organized by Audience and Key Resources to increase usability

(blue panel)

Homepage "message" sets context for this site and other PCB resources

(white panel)

Dynamic features show change and promote key program resources

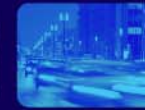**(green panel)**

Technical Assistance

- ITS Helpline
- ITS Peer to Peer Program
- ITS Federal Field Staff (FHWA,FTA,FMCSA)
- ITS Solution Center *(under development)*
- Communities of Practice *(under development)*

Technical Assistance--Contacts

- Toll-free **"ITS Help-line"** at
  - **Telephone:** 1-866-367-7487
  - **E-mail:** itshelp@volpe.dot.gov

- The **Peer-to-Peer Program** at
  - **Telephone:** 1-888-700-PEER or 1-888-700-7337
  - **Email:** p2p@volpe.dot.gov

ITS Solution Center (formerly ITS Learning Center)

What is it?

A web-based tool for ITS practitioners that:

- Facilitates the deployment of ITS

- Provides resources and assistance to foster:
  – Just in time solutions
  – Efficient tech assistance
  – "Targeted" learning

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U.S. Department of Transportation

INTELLIGENT TRANSPORTATION SYSTEMS
LEARNING CENTER

TEXT SEARCH [   ] Go

About the Learning Center I Contact Us I Site Map I Feedback I FAQs

Navigation:
- Home
- Frame the Question
- The ITS Story
- Learning Now
- Peer Center
- Ask the Expert
- Search

Ask the Expert
1-800-ITS-HELP

Welcome to the ITS Learning Center
A virtual resource for "just-in-time technical assistance and real-time learning"

The ITS Learning Center combines learning material - training, education, presentations & outreach, knowledge resource tools, documents, and real life peer experiences - into one environment presenting a range of learning and technical assistance in ITS.

Options for Just-in-Time Technical Assistance

Help Me - Frame the Question

Search the Learning Center's Resources

Get Help - Ask the Expert

Real-Time ITS Learning

Discover the path to ITS Deployment

Where does your learning fit into the ITS story?

Tell me more on:
- ITS Awareness
- ITS Planning
- Enabling Infrastructure
- ITS Deployment
- Future ITS Initiatives

Web-based ITS Learning Now!

The ITS Learning Center hosts web-based learning opportunities for on-the-job building of knowledge and skills. You'll find:

- Web-Based Training on the ITS Curriculum
- Opportunities to blend web-based and instructor-led training in our Blended Learning Series
- Archives of T3 sessions for immediately learning
- Access to our class-room based course materials

Access materials, register for training, or sign up for our **PCB Online** notices of learning events TODAY!

Solution Center *(cont.)*

How will it be different?

The Solution Center will...

- Leverage a wide variety of existing and future resources
- Be organized in a user friendly fashion
  - Filter the information for the user
  - Provide "demand-responsive" solutions
  - Guide the user when requesting information
- Real-time help/"librarian"
- Support continuous needs assessment
- Develop "solution suites"
- Support peer networking
- Facilitate specialized telecons/T3's

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LEARNING CENTER

TEXT SEARCH [ ] Go

About the Learning Center I Contact Us I Site Map I Feedback I FAQs

Home
Frame My Question
Ask the Expert
The ITS Story
Peer Center
Advanced Search

Customer Service
1-888-learn-ITS

Please Frame Your Question...

What **mode** of transportation are you interested in?
All Modes

What is your **role at your organization**?
Agency Manager

What is your **role on this project** (if relevant)?
Research

What **area of ITS** are you interested in?
See the *Glossary*
General ITS

What **resources** are you looking for?
☐ Training Materials   ☐ Knowledge Resource Tools
☐ Educational Resources   ☐ Policy/Regulations
☐ Presentations   ☐ Websites
☐ Documents   ☐ FAQ's

What are your **learning objective(s)**?
☐ Professional development   ☐ Introduction to ITS
☐ Technology procurement   ☐ Peer Networking

What **type of technology** is involved (if any)?
[ ] 📋 **Keyword Hints** (*Will auto-fill the field.*)

What aspect or **stage of ITS Deployment** is presenting the challenge?
What do we mean?
Policy

What are you **aiming to do**?
Persuade the decision making process

Is there a **specific question** you want to ask?
[ ]

Submit

Solution Center *(cont.)*

What resources will it include?

- PCB course curricula and materials
- Archives of T3 sessions
- Selected research and evaluation reports
- Access to other ITS JPO databases
- Listing of frequently asked questions (FAQs)
- Archived "solution suites"
- Peer-to-Peer Program assets
- Archives of relevant presentations made at various venues
- Communities-of-practice forums
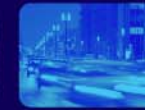- Links to other internal and external resources

Resources Available from Solution Center

- Internal Resources
  - Lessons Learned
  - Costs/Benefits
  - Applications Overview
  - Electronic Documents Library
  - ITS Deployment Statistics
- External Resources
  - ITS America Publications
  - ITE E-Libraries
  - TRIS

Partnerships

- Local PCB Programs
  - Case Studies in progress
  - "Seed funding" to support local programs that are viable for the long-run
  - Offer PCB courses at universities
- Network of Champions
  - Critical aspect of PCB program success
  - Outreach to encourage and support "championing"
- Training Organizations
  - NHI
  - NTI
  - NTC
  - CITE
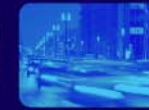- Professional Organizations (ITE, ITSA, ASCE, etc.)

New ITS PCB Program in a Nutshell

- Virtual
- Just-in-Time
- Ubiquitous
- Accessible
- Comprehensive
- Customer-Driven
- On-the-job

Access to a World of ITS Learning

www.pcb.its.dot.gov

For More Information

Contact

Emily Parkany

Mitretek Systems

202-488-5792

emily.parkany@mitretek.org

Ron Giguere

ITS PCB Program Manager

202-366-2203

ron.giguere@fhwa.dot.gov