



*security mobility*

*convenience information*

*options safety*

# ITS Florida Technology Forum

**{Technical Solutions Sub-Committee}**

Peter Vega, P.E.

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# Technical Subcommittee Background

- Created this calendar year
- Goal was to assist w/ Technical issues involved with ITS World Congress 2011
- Develop a team w/ vast experience
- Spread knowledge throughout Florida
- Discussion forum for new ideas & concepts
- Assist with PCB courses in the future
- Assist w/ review of FDOT ITS standards

# Technical Subcommittee Composition

- Currently 26 participants and growing
- Vast experience from Southeast, Southwest, Central and North Florida
- ITS experience ranges < 2 to > 15 years
- Current members are from:
  - FDOT
  - Public Agencies
  - Consultants
  - Contractors (What's Missing???)

# ITS World Congress 2011 – Orlando, FL

- Technical issues for ITS World Congress:
  - Bandwidth capabilities
  - Wireless infrastructure
  - ITS and Traffic Signal infrastructure
  - Communication Protocols
  - Document review process
- Staff support during display events
- Providing outreach and information to visitors from around the World

## New Ideas and Concepts

- Use of Bluetooth for vehicle communication
- Use of WiFi for vehicle communication
- Use of Zero Surge protection units
- RWIS devices and testing
- Multi-layered traffic management software for Interstate and Arterial roadways
- Smart cars and infrastructure of the future

## PCB Courses - Anticipated

- Lightning protection for ITS devices
- Maintenance of ITS devices at lower costs
- Use of hybrid communication for ITS
- Where the “Rubber Meets the Road”
- Methods for deploying an ITS project quickly, efficiently and effectively at a low cost
- All courses are anticipated to be Webinars

# Technical Review

- Standard Drawing 18204 – Mesh wiring in concrete aprons
- Development of APL flowchart
- Clarification on use of NEC 250.64 (Grounding for ITS devices)
- TERL specifications for ITS devices

## 2010 Calendar Year Plans

- Name a new Chair
- Recruit ten new committee members
- Two PCB courses by April (via Webinar)
- Develop reference site on ITS Florida webpage
- Develop web interactive communication
- Begin addressing technical needs for 2010 ITS World Congress
- Continue to assist with TERL reviews

# Technical Subcommittee Members

- Consultants

Anand Jujare  
Craig Carnes  
Jesus Martinez  
Kevin Yorke

Charlie Wallace  
Dale Cody  
Mark Laird

Rob Brock  
Jason Summerfield  
James Bitting

- Contractors

Larry Taylor

Brian Cole

- Public Agencies

Peter Vega  
Demetrius Lewis  
Carlos Bonilla  
Javier Rodriguez  
Trey Tillander

Matt Weismen  
Nathan Ruckert  
Mark Nallick  
Jeremy Dillmore  
Ronald Meyer

Michael Smith  
Adam Moser  
Manny Fontan  
Dong Chen  
Jeff Morgan



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