

IEEE SMART TECH METRO AREA WORKSHOP SERIES

Professional workshops in a learning environment



IEEE Smart Tech Metro Area Workshops provide participants with a unique learning experience with topics on the cutting-edge of technical innovation today.

These two-day seminars are focused on providing an opportunity for participants to learn first-hand from the field experts. Each workshop is a springboard to a deeper understanding of technology and its myriad applications and potential for innovation.

IEEE Smart Tech is coming to Austin, Texas and Huntsville, Alabama this year:

21-22 October 2011

Austin Marriott South
4415 South IH 35, Austin, TX 78744

Early bird pricing expires 15 September

4-5 November 2011

Von Braun Center
700 Monroe Street, Huntsville, AL

Early bird pricing expires 30 September

Immerse yourself in a full-day course on the most impactful technology areas today. Daily tracks for each workshop are designed to make the day as productive and comfortable as possible.

On Friday, choose from one of three workshops on parallel all-day tracks:

- **Wireless Communications Engineering: Current Practice**
- **Introduction to Smart Grid**
- **Software Engineering Essentials**

On Saturday, choose from three workshops, some of which are repeated:

- **Introduction to Smart Grid**
- **Software Engineering Essentials**
- **Career Assistance**

IEEE Members US\$99

(Regular price US\$119. Society affiliates not eligible for member rate.)

Non-IEEE Members US\$179

(Regular price US\$199)

Your registration fee includes:

- Two days of instruction
- Breakfast and lunch both days
- Friday evening reception

Each day begins with a continental breakfast, moves through an introduction and course instruction, including breaks and lunch. Two more course sessions, separated by a break, culminate at the end of the day for a discussion session. On Friday evening, there will be a plenary speaker address at a reception with hors d'oeuvres and a cash bar.

Registration fees include two days of instruction, breakfast and lunch both days, and the Friday evening reception. All sessions will be eligible for CEU credits.

Join IEEE prior to registering and be eligible for the member rate. Go to www.ieee.org/join. Or if you prefer, register at the non-member rate. If you choose to join IEEE onsite at the conference, you will receive a US\$80 credit toward your first-year membership dues.

For more information including registration, a detailed agenda, and course descriptions visit www.ieee.org/metroevents.

IEEE SMART TECH

METRO AREA WORKSHOP SERIES

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INTRODUCTION TO SMART GRID

Recommended for all technology professionals. *(CEU's available)*

- NIST Conceptual Model and its domains and interfaces
- Smart metering
- The current state of smart grid applications and how these drive infrastructure requirements
- The integration of smart grid elements into utility operations
- Distribution automation as an enabling technology for smart grid
- Smart grid cyber security technology
- Smart grid standards framework and its challenges
- Overview of smart grid network communications and the data needed in/out of the network
- Monitoring equipment used by smart grid applications in the network to generate data for analysis and improving customer service

SOFTWARE ENGINEERING ESSENTIALS

Designed for software development professionals interested in confirming knowledge of industry-standard software practices. *(CEU's available)*

- Learn the principles, standards and practices of software engineering to create more robust applications
- Review of all 15 Knowledge Areas presented in the Guide to the Software Engineering Body of Knowledge (SWEBOOK) with a special focus on principles and practices on requirements, Design, Construction and Testing
- Quizzes to test knowledge
- Course based on curriculum for the IEEE CSDP designation
- Increase your overall knowledge of the software development lifecycle and value to your company

WIRELESS COMMUNICATIONS ENGINEERING

Recommended for professionals, practitioners and graduate level students interested in learning more about wireless communications.

- An introduction to wireless systems and key practical concepts
- An RF propagation environment and the corresponding considerations in radio engineering, antennas and link design
- LTE-Advanced
- Packet switching vs. circuit switching
- The evolution to all-IP networks
- Wireless security threats
- Access technology evolution from 3G to beyond 3G
- Macro, micro, pico-cells in relation to 3GPP and IEEE Wireless Standards
- Services technologies evolution and standardization
- Network management

CAREER ASSISTANCE

Presented by volunteer members of the IEEE-USA Employment and Career Services Committee (ECSC).

- Develop lifelong employability in a continuously changing career and employment environment, by focusing on your own professional and career development
- Develop networking and job seeking skills
- Achieve career satisfaction
- Improve the ability to take responsibility for personal and professional development in both technical and non-technical areas
- Learn how to make your organization more productive
- Resume writing, interviewing, consulting
- Globalization and your career
- Learn about the resources that IEEE makes available to help engineers and technology professionals

For more information and to register, visit www.ieee.org/metroevents

Austin Marriott South Hotel
Austin, Texas

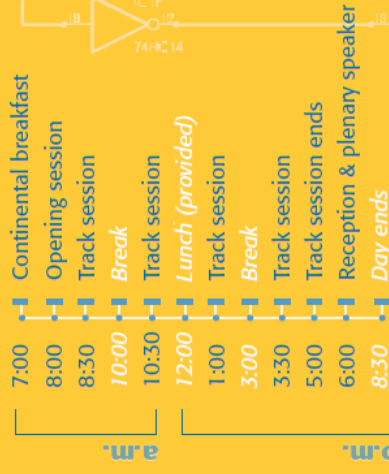
Friday 21 – Saturday 22 October 2011

Von Braun Center
Huntsville, Alabama

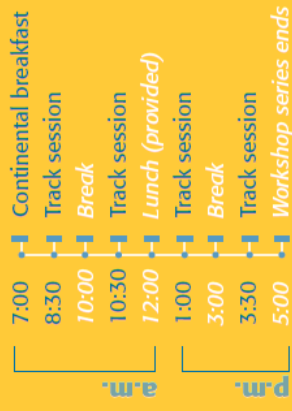
Friday 4 – Saturday 5 November 2011

Workshop Schedule

Friday



Saturday



Reserve your spot today!
www.ieee.org/metroevents