2011 IEEE Rural Electric Power Conference

(REPC 2011)

Chattanooga, Tennessee, USA
10 – 13 April 2011
**2011 IEEE RURAL ELECTRIC POWER CONFERENCE**

**Chattanooga, TN**

**Program Schedule**

**Sunday, April 10, 2011**

1:00 PM – 6:00 PM  **Registration** (Convention Center)

10:00 AM – 4:00 PM  **Set Up Exhibits** (Convention Center – Banquet Rooms I/J/F/G)

1:00 PM – 3:00 PM  **Subcommittee Meetings as Scheduled** (Marriott Hotel)

- Computer Applications (East Room)
- Job Training and Safety (Board Room)
- NESC (Signal Mountain Room)
- Power Quality and Efficient Electric Use (West Room)
- Standards (Director's Room)
- NRECA T&D Underground (Lookout Mountain Room)

3:00 PM – 4:30 PM  **Committee Business Meeting** (Marriott Hotel - Tennessee River Room)

4:30 PM – 7:00 PM  **Vendor Display/Exhibitions & Reception** (Convention Center – Banquet Rooms I/J/F/G)

**Monday, April 11, 2011**

7:00 AM – 4:00 PM  **Registration** (Convention Center)

7:00 AM – 8:00 AM  **Breakfast Buffet** (Marriott Hotel- Plaza Ballroom)

9:00 AM – 4:00 PM  **Companion Tour: Chattanooga Aquarium & Southern Bell Riverboat**

- Depart from Marriott Hotel Lobby

8:30 AM – 9:00 AM  **Opening General Session** (Convention Center- Meeting Rooms 4/5/6)

- **Presiding:** Rhonda Whitaker-Hamm, REPC Chairperson
- **Keynote Speaker:** Robin E. Manning, Executive Vice President of TVA’s Power System Operations

9:00 AM – Noon  **Technical Session “A”** (Convention Center- Meeting Rooms 4/5/6)

- **Moderator:** Rhonda Whitaker-Hamm

9:00 AM  **A-1 Electric Power and Energy Engineering Education in USA: A Status Report, Issues and Challenges**

- P. K. Sen, PhD, P.E., IEEE Fellow, Colorado School of Mines, Golden, CO

9:30 AM  **A-2 Medium-Voltage Arc Flash in Open Air and Padmounted Equipment**

- T. A. Short, Senior Member IEEE, and M. L. Eblen, Senior Member IEEE

10:00 AM  **Break – Exhibit Area** (Convention Center- Banquet Rooms I/J/F/G)

10:30 AM  **A-3 Grounding Considerations for Large kVA Pad-mount Transformers**

- Ruwan Weeransundara, P.E., Member IEEE, ESC Engineering

11:00 AM  **A-4 Economics of a Small Renewable Generation System**

- Troy Knutson, P.E., Member IEEE, Cass County Electric Cooperative

11:30 AM  **IAS/PES A.P. Seethapathy Rural Electrification Excellence Award Presentation**

11:45 AM  **Break – Exhibit Area** (Convention Center- Banquet Rooms I/J/F/G)
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Monday, April 11, 2011

Noon – 1:00 PM    **Lunch** (Marriott Hotel- Plaza Ballroom)

1:00 PM – 4:30 PM  **Technical Session “B”** (Convention Center- Meeting Rooms 4/5/6)

**Moderator:** Jerry Josken, Vice Chairman - REPC

1:00 PM    **B-1 Rural Energy Security Using Autonomous Micro-turbine Smart Grids**
            Eric T. Matson Ph.D., Anthony Smith, J. Eric Dietz Ph.D., Purdue University

1:30 PM    **B-2 Distribution System Analysis and the Future Smart Grid**
            R. F. Arritt, Member IEEE and R. C. Dugan, IEEE Fellow, EPRI

2:00 PM    **B-3 Real Time Evaluation and Operation of the Smart Grid Using Game Theory**
            Michael Swearingen, IEEE Member, Tri-County Electric Cooperative

2:30 PM    Break – Exhibit Area (Convention Center- Banquet Rooms I/J/F/G)

3:00 PM    **B-4 Report on Real-Time Grid Analysis Pilots**
            Wayne Carr, Greg Shirek, Milsoft Utility Solutions; Jim See, Owen Electric;
            and Steven Latham, South Plains

3:30 PM    **B-5 Integrated Volt/VAR Control on Rural Distribution Systems**
            David Farmer, P.E., Phillip Ingle and Stephanie H. Morgan, P.E., Members IEEE

4:00 PM    **B-6 Expansion of Distribution Automation with Communicating Faulted Circuit Indicators**
            Cameron Smallwood, P.E., Senior Member IEEE; Michael Lattner, E.I.T., Ted Gardner

4:30 PM    **Adjournment**

4:30 PM – 7:00 PM    **Vendor Display/Exhibitions & Reception** (Convention Center- Banquet Rooms I/J/F/G)

Tuesday, April 12, 2011

7:00 AM – 12:00 Noon  **Registration** - (Convention Center)

7:00 AM – 8:30 AM    **Vendor Display/Exhibitions Tear Down/Clean Up** (Banquet Rooms I/J/F/G)

7:00 AM – 8:00 AM    **Breakfast Buffet** (Marriott Hotel- Plaza Ballroom)

8:30 AM-Noon    **Technical Session “C”** (Convention Center- Meeting Rooms 4/5/6)

**Moderator:** Chris Brooks, Secretary - REPC

8:30 AM    **C-1 Using the IEEE Comprehensive Test Feeder**
            W. H. Kersting, Life Fellow IEEE, Milsoft Utility Solutions

9:00 AM    **C-2 High-Speed Communication-Assisted Tripping and Sectionalizing for Distribution Systems**
            Steven Turner, Member IEEE, Beckwith Electric

9:30 AM    **C-3 Advanced Distribution Reclosing Using Wireless Communications**
            Terrence Smith, P.E., Jakov Vico P.E., Craig Wester, Member IEEE, General Electric
Tuesday, April 12, 2011

10:00 AM – 10:30 AM  **Break Exhibit Area**  Exhibit Tear Down/Clean Up After Break

10:30 AM  **C-4**  **Distribution Automation Systems with Advanced Features**
Richard Greer AEP; Will Allen, Jim Schegg and Andrew Dulmage, SEL

11:00 AM  **C-5**  **Implementing Fast, Configurable, Bolt-On, Self Healing Technology for Distribution Management Systems**
Stef Budia, Cooper Power Systems

1:45 AM – 12:45 PM  **Lunch**  (Marriott Hotel- Plaza Ballroom)

12:45 PM  **Invitation to 2012 REPC Conference in Milwaukee, Wisconsin**
Jerry Josken, REPC Vice Chairman

1:00 PM – 3:00 PM  **Technical Roundtable Session – “Report on Distribution Automations”**
**Moderator:** Doug Turk, REPC Secretary Elect
**Panelists:** Jim McClanahan, S & C Electric
                Stef Budia, Cooper Power Systems
                Craig Gerke, Jackson Purchase Electric Coop
                David Wade, Chattanooga EPB

3:00 PM – 3:30PM  **Door Prizes – “You Must Be Present To Win”**
Closing Announcements
Conference Adjournment

3:30 PM – 5:00 PM  **Review of RUS Bulletin #1728F-806 (Specifications and Drawings for Underground Electric Distribution) for Proposed Renumbering and Revisions (All Conference Attendees are Invited)**
NRECA T & D Underground Subcommittee

Wednesday, April 13, 2011

8:00 AM - noon  **Workshop – Demand Response Technologies, Integration to the Smart Grid and ISO Markets**
(Marriott Hotel- Plaza A)  Cooper Power Systems

8:00 AM  **Workshop – SEL Technical Seminar (Marriott Hotel- Plaza B)**
Schweitzer Engineering Laboratories, Inc.

8:00 AM - noon  **Workshop – Distribution Volt/VAR Management**  (Marriott Hotel- East Room)
UC Synergetic