



## Power Systems Engineering Research Center

### Power System Visualization Advances Workshop

March 28, 2007

Missionary Ridge Complex, Tennessee Valley Authority  
1101 Market Street  
Chattanooga, TN

Over the last decade, PSERC researchers have been at the leading edge of innovation in power system visualization. Recently, these researchers teamed up with Concurrent Technologies Corporation (CTC) through the U.S. Department of Energy's Center for Grid Modernization to accelerate adoption of new visualization techniques in control centers. One effort has been to integrate new visualization techniques into the TVA-hosted, Southeast Wide Area Display Environment and to assess their effectiveness using human factors assessment. This work is being performed by Professors Tom Overbye (Department of Electrical and Computer Engineering) and Esa Rantanen (Aviation Institute) from the University of Illinois at Urbana-Champaign. The visualization techniques will be demonstrated at this workshop and the results of the effectiveness assessment will be presented.

#### Agenda

8:00 – 8:30	<b>Registration and Continental Breakfast</b>
8:30 – 8:45	<b>Welcome by TVA</b>
8:45 – 10:15	<b>New Advances in Power System Visualization</b> Tom Overbye (University of Illinois at Urbana-Champaign)
10:15 – 10:30	Break
10:30 – 11:30	<b>Human Factors Applied to the Utility Control Center</b> Esa Rantanen (University of Illinois at Urbana-Champaign)
11:30 – Noon	<b>Demonstration of SEWADE</b> Clay Deloach (TVA)
Noon – 1:15	Lunch (provided) and Tour of TVA Control Center (optional)
1:15 – 2:15	<b>Visualization of PMU Data</b> Zeb Tate (University of Illinois at Urbana-Champaign)

The latest innovations in visualization will be presented at the workshop. The following previous PSERC visualization project reports are available on the [PSERC website](#):

- [Visualization of Power Systems and Components](#) (2005). See the [2006 PSERC tele-seminar](#).
- [Visualization of Power Systems](#) (2002)

## **Attendees and Registration**

This meeting is open to all interested individuals. There is no registration fee, but we ask that you indicate your attendance by March 15 by sending an email to Tom Overbye ([Overbye@uiuc.edu](mailto:Overbye@uiuc.edu)) with your name and affiliation. Also, you will need to bring a picture ID on March 28 to be checked into TVA's Missionary Ridge Complex. If you have any logistical questions please contact Jan Kelly of TVA (phone: 865-632-3770, email: [jkelly@tva.gov](mailto:jkelly@tva.gov)).

## **Hotels**

There is no single hotel for this event, but there are several hotels within easy walking distance of the meeting location at TVA. These hotels are listed below.

Chattanooga Marriott  
2 Carter Plaza  
Chattanooga, TN 37402  
(423) 756-0002

Sheraton Read House  
827 Broad Street  
Chattanooga, TN 37402  
(423) 266-4121

Staybridge Suites  
1300 Carter Street  
Chattanooga, TN 37402  
(423) 267-0900

The Chattanooga  
1201 South Broad Street  
Chattanooga, TN 37402  
(423) 756-3400

Days Inn Rivergate  
901 Carter Street  
Chattanooga, TN 37402  
(423) 266-7331