

**Title: Ultra-wide-area Control to Allow High Penetration of Renewables in the Power Grid**

**Speaker:**

Professor Kevin Tomsovic  
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Department of Electrical Engineering and Computer Science  
University of Tennessee  
Knoxville

**Date:** Thursday, 5 January 2012

**Time:** 2:30 pm

**Venue:** Room 603, Chow Yei Ching Building

**Abstract:**

Much of the discussion on the Smart Grid has focused on distribution systems and end-use technology. Yet in order to integrate significant levels of renewables into the grid without sacrificing reliability, coordination of uncertain sources, flexible transmission and controllable loads across wide areas will be critical. This talk overviews a recently funded US NSF Engineering Research Center, entitled CURENT, that seeks the technologies and methods to enable wide area control of the power grid.

**Biography of the speaker:**

Kevin Tomsovic received the B.S. degree in electrical engineering from Michigan Technological University, Houghton, in 1982 and the M.S. and Ph.D. degrees in electrical engineering from the University of Washington, Seattle, in 1984 and 1987, respectively. Currently, he is CTI Professor and Head of the Department of Electrical Engineering and Computer Science at University of Tennessee, Knoxville. Visiting University positions have included Boston University, Boston, MA; National Cheng Kung University, Tainan, Taiwan, R.O.C.; National Sun Yat-Sen University, Kaohsiung, Taiwan, R.O.C.; and the Royal Institute of Technology, Stockholm, Sweden. He was on the faculty of Washington State University from 1992-2008. He held the Advanced Technology for Electrical Energy Chair at Kumamoto University,

Kumamoto, Japan, from 1999 to 2000 and was an NSF program director in the ECS division from 2004 to 2006. He directs the NSF/DOE Engineering Research Center entitled CURENT. He is a fellow of the IEEE.

**Organizer:** Dr. J. Zhong