Substation Automation

Date: Thursday, June 7, 2001
Time: **5:30pm**
Location: 510 Carnegie Center, Princeton, NJ 08540, All Purpose Conference Room **01P8**

Abstract:
Mr. William Ackerman will give an overview of substation automation today and then discuss the current status of substation communications protocols. The overview of substation automation covers the characteristics of substation integration systems and substation automation systems. Also implementation considerations, impacts of data volume, hardware issues, operating systems and application software, and installation and testing shall be discussed. The discussion of Current Status of Substation Communications Protocols will cover IEEE Std. 1379 (DNP3.0), IEEE P1525 Project, IEC 61850 Project, and UCA.

Technical Biography:
William J. Ackerman started work with Automatic Electric Company on the first solid-state SCADA systems (CONITEL-2000) after receiving his B.S. and M.S. degrees in Electrical Engineering. He then proceeded to work for Leeds & Northrup Company as Manager of Conitel Systems and Florida Power Corporation as Manager of Energy Control Center Operations. He joined ABB Power T&D Company as a Project Manager in the Systems Control Division in 1990. Bill transferred to the Substation Automation and Protection Division in 1996, where he is currently Manager of Substation Automation Systems. Bill is a Senior Member of the IEEE and the Power Engineering Society; and a member of the IEEE-PES Distinguished Lecturers Panel. He is past-Chairman of the Substations Committee of the PES, and of the Automatic and Supervisory Systems Subcommittee. Bill is an active member of the IEEE Standards Advisory Board, and the Standards Working Groups of the PES Substations Committee. He is a member of the U.S. Delegation to TC57 of the International Electrotechnical Commission (IEC). He has authored and co-authored numerous papers, including the IEEE Tutorial, Fundamentals of Supervisory Systems.