

Concurrent Roundtable 6

Electric Energy for the 21st Century: The China-U.S. Research and Development Needs

Chairs:

Mladen Kezunovic, Eugene E. Webb Professor and Director, Power System Control and Protection Laboratory, Texas A&M University

Zhang Yao, Dean of College of Engineering, South China University of Technology

Wednesday, October 24, 2007

8:00 a.m. joint session for research participants

Grand Ballroom, Ballroom Level

9:00 a.m. Welcome

Mladen Kezunovic, Eugene E. Webb Professor and Director, Power System Control and Protection Laboratory, Texas A&M University

Zhang Yao, Dean of College of Engineering, South China University of Technology

9:15 a.m. Global Research Needs and Challenges

[National Basic Research Program on New On-Line Control System Development](#)

[Bai Xiaomin](#), Deputy Chief Engineer, China Electric Power Research Institute

[Externality Implication on Bulk Energy Transport](#)

Le Tang, Manager, ABB Research and Development Center

[Systems Operations Needs in a Market Environment](#)

[Ralph Masiello](#), Senior Vice President, KEMA Consulting

[Transmission R&D Needs—A U.S. Utility Perspective](#)

Navin Bhatt, Manager, Advanced Transmission Studies and Technologies, American Electric Power

10:45 a.m. The Grid Developments In China And The United States

[Wide Area Measurement Systems-Monitoring and Control](#)

[Philip Overholt](#), Program Manager, Department of Energy

[Benefits of Wide Area Monitoring, Control and Protection](#)

[Yi Hu](#), Director, Wide Area Monitoring Program, Infrasource

[Wide Area Measurement System Implementation in Chinese Power Grid and the Challenges for Its Application](#)

[Tian Shu Bi](#), Professor and Director, Si Fang Research Institute

[Data Compression and Feature Extraction Research](#)

[Zixiang Xiong](#), Professor, Texas A&M University

12:15 p.m. Keynote Address and Lunch

Grand Ballroom, Ballroom Level

1:30 p.m. Transmission and Distribution

[A New Generation of Energy Management Systems With 3-Dimensional Coordination](#)

[Sun Hongbin](#), Professor, Tsinghua University

[Visualization and Pattern Recognition of Precursor Signals for Cascading Outages](#)

[Stephen Lee](#), Technical Executive, Power System Planning and Operation, Electric Power Research Institute

[The On-Line Dynamic Security Assessment System in China National Grid](#)

[Jianfeng Yan](#), Research Staff, China Electric Power Research Institute

[Challenges with Large Grid Operation for Restructured Power Systems](#)

[David Sun](#), Chief Scientist, AREVA Transmission and Distribution

[Addressing Transmission Grid Complexity With Advanced Transmission Technology](#)

[Aty Edris](#), Program Manager, Electric Power Research Institute

3:30 p.m. Opportunities for Future Research and Development Cooperation

[National Science Foundation Program for Collaboration Opportunities](#)

[Dagmar Neibur](#), Program Director, National Science Foundation

[Multi-Disciplinary Research in an Industry-University Consortium](#)

[Dennis Ray](#), Executive Director, Power Systems Engineering Research Center

[Texas Electric Technology Development for The 21st Century: An Industry-University Partnership in Innovation for Texas](#)

[Milton Holloway](#), COO, Center for the Commercialization of Electric Technologies

Presentation

[Yue Yuan](#), Dean and Professor, College of Electrical Engineering, Hohai University

Thursday, October 25, 2007

Joint session with Bioenergy Development, Climate Change Mitigation, and Energy Security

9:00 a.m. Distributed Generation and Load Efficiency

[Emerging Issues and Opportunities for Demand Response in Grid Operations](#)

[Carl Imhoff](#), Manager, Pacific Northwest National Labs

[Status of IEEE Standard 1547 for Interconnection of Distributed Generation with the Electric Grid](#)

[Dick DeBlasio](#), Technology Manager, Distributed Energy and Electric Reliability Program, National Renewable Energy Laboratory

[Will Biofuels Make Economic Sense: an Economic and Greenhouse Gas Based Investigation](#)

[Bruce McCarl](#), Professor, Texas A&M University

[Optimal Power Dispatch for Economizing Energy and Reducing Pollution with Priority Renewable Energy Generator](#)

[Liu Tianqi](#), Professor, Sichuan University

10:45 a.m. Alternative Generation and Environmental Impacts

[The Global Nuclear Energy Partnership—The U.S. Long-Term Nuclear Research and Development Program](#)

[Warren Miller](#), Professor, Texas A&M University

[Impacts of High Penetration of Plug-in Hybrid Electric Vehicles, Both for the Utility and the Environment](#)

[Eric Lightner](#), Program Manager, United States Department of Energy

Presentation

Kejun Jiang, Senior Scientist, Energy Research Institute, National Development and Reform Commission

[Using Forest Biomass for Electricity Production: Economic and Environmental Perspectives](#)

[Jianbang Gan](#), Associate Professor, Texas A&M University

12:00 p.m. Luncheon

Grand Ballroom, Ballroom Level