



## WORKSHOP

*Smart Grids, Renewable Energies and Techniques*

**School of Electrical, Electronic and Computer Engineering**

**The University of Western Australia**

**Blake's Lecture Theatre**

**5 November 2012**

## INTRODUCTION

The Second Workshop on 'Smart Grids, Renewable Energies and Techniques', organised by the School of Electrical, Electronic and Computer Engineering, The University of Western Australia, will be held in Blaker's Lecture Theatre on 5 November 2012. The First Workshop, held on 8 August 2012, was well received by 70 participants from industry and academia. The aims of the workshops are to disseminate ideas and techniques for the development of modern electricity supply systems such as smart grid and to provide a forum for discussions and experience sharing with overseas experts.

This workshop is supported by the Faculty of Engineering, Computing and Mathematics, UWA, Western Power Corporation, Horizon Energy, State Grid Corporation of China, North China Electric Power University, Hongkong Electric, CSIRO, University of Newcastle, IEEE Section WA, IEEE Power and Energy Engineering and Power Electronics Chapter WA and IEEE Systems, Man, and Cybernetics Society Technical Committee on Intelligent Power and Energy Systems. Participation in the workshop is free. Interested engineers, academics, research students and IEEE members are welcome.

## REGISTRATION

*Registration: by Tuesday 30th October 2012 (first come, first serve until vacancy filled)*

*Email: [admin-eece@uwa.edu.au](mailto:admin-eece@uwa.edu.au)*

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**PROGRAMME ( Subject to alteration)**

***Morning Sessions***

***9:15 am - 9:25 am: Welcome Address***

Winthrop Professor Gregory Ivey  
Deputy Dean (Research), Faculty of Engineering, Computer and Mathematics  
University of Western Australia

***9:25 am - 9:30 am: Introduction to Workshop***

Winthrop Professor Kit Po Wong  
School of Electrical, Electronic and Computer Engineering  
University of Western Australia

***9:30 am - 9:45 am: Smart Grid Research in CSIRO***

Mr Mark Paterson  
Manager, Smart Grid Partnerships  
CSIRO, Australia

***9:45 am - 10:30 am: Smart Grid in China***

Professor Loi Lei Lai  
Director of Energy Strategy, Planning, Policy Support and R and D Centre  
State Grid Energy Research Institute  
Beijing  
China

***10:30 am - 11:15 am: The Dynamic Performance of PMU and Its Potential Applications***

Professor Tianshu Bi  
Executive Director of the State Key Laboratory of Alternate Electric Power System with Renewable  
Energy Sources  
North China Electric Power University and  
Director of SI FANG Research Center  
Beijing  
China

***11:15 am - 11:30 am: Networking Break***

***11:30 am - 12:15 pm: Development of Renewable Energy Projects in Hong Kong - HK Electric Experience***

Mr C.K. Lau  
Chief Electrical Engineer  
Hongkong Electric  
Hong Kong

***12:15 pm - 12:30 pm: Questions and Answers***

***12:30 pm - 2:00 pm: Interval***

***Afternoon Sessions***

***2.00 pm - 2:45 pm: Smart Grid Transitions toward a Future Grid, opportunities and challenges in Australia***

Professor Z.Y. Dong  
Ausgrid Chair Professor  
Director, Centre for Intelligent Electricity Networks  
The University of Newcastle  
NSW

***2:45 pm - 3:30 pm: A new innovative approach to implementing protection, control & communication in HV substations - An application of IEC 61850 at Western Power***

Mr James Stokes  
Principal Engineer - Technology Development  
Integrated Design Branch / Transmission Division  
Western Power Corporation  
Western Australia

***3:30 pm - 3:45 pm: Networking Break***

***3:45 pm - 4:30 pm: Statistical Methods for Predicting Events***

Professor Adrian Baddeley  
Fellow of Australian Academy of Science  
CSIRO Division of Mathematics, Informatics and Statistics  
Australia

***4:30 pm - 5:15 pm: Distributed PV Installation in Horizon Power Isolated Systems***

Mr Hai Bui  
Senior Systems Planning Engineer  
Horizon Power  
Western Australia

***5:15 pm - 5:30 pm: Questions and Answers***

***Close***