

## PROGRAMME

### DAY 1

8.30 a.m. - 9.00 a.m.	<i>Registration</i>
9.00 a.m. – 9.30 a.m.	Welcoming Address - Organizing Chair PEOCO 2009  <i>Opening Ceremony – Vice Chancellor, Universiti Teknologi MARA</i>  <i>Photo Session</i>
9.30 a.m - 10.00 a.m.	<i>Coffee Break</i>
10.00 a.m - 11.00 a.m.	<i>Keynote Speaker 1</i>
11.30 a.m - 12.30 noon	<i>Parallel Session (R1-1, R2-1)</i>
12.30 noon - 2.00 p.m.	<i>Lunch</i>
2.00 p.m. - 3.45 p.m.	<i>Parallel Session (R1-2, R2-2)</i>
3.45 p.m. - 4.00 p.m.	<i>Coffee Break</i>
4.00 p.m. - 5.30 p.m.	<i>Parallel Session (R1-3, R2-3)</i>

## PROGRAMME

### DAY 2

8.45 a.m - 10.00 a.m.	<i>Parallel Session (R1-4, R2-4)</i>
10.00 a.m - 10.15 a.m.	<i>Coffee Break</i>
10.15 a.m – 11.30 a.m	<i>Parallel Session (R1-5, R2-5)</i>
11.30 p.m. - 12.30 noon	<i>Keynote Speaker 2</i>
12.30 noon - 2.00 p.m.	<i>Lunch</i>
2.00 p.m. – 3.30 noon	<i>Parallel Session (R1-6, R2-6)</i>
3.30 p.m. - 4.00 p.m.	<i>Coffee Break</i>

## PARALLEL SESSION

<b>Time</b>	<b>3<sup>rd</sup> June 2009</b>
11.30 a.m – 12.30 noon	<i>R1-1 : Power System Transmission &amp; Distribution R2-1 : Protection/High Voltage</i>
2.00 p.m – 3.45 p.m	<i>R1-2 : Distributed Generation R2-2 : Power Quality</i>
4.00 p.m – 5.00 p.m	<i>R1-3 : Power Electronics R2-3 : Power System Planning &amp; Operation</i>
<b>4<sup>th</sup> June 2009</b>	
8.45 a.m – 10.00 a.m	<i>R1-4 : Artificial Intelligence R2-4 : Electrical Machine</i>
10.15 a.m – 11.30 noon	<i>R1-5 : Power Electronics R2-5 : Power Quality</i>
2.00 p.m – 3.30 p.m	<i>R1-6 : Power System Planning &amp; Operation R2-6 : Power System Stability</i>

**Note:** *R1 = Room 1  
R2 = Room 2*

**3<sup>rd</sup> June 2009**

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**Session R1-1 (11.30 a.m. – 12.30 noon)**

**Topic: Power System Transmission & Distribution**

*Chairperson: Dr Mohammad Nawawi Seroji*

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1. *A Simplified Approach in Estimating Technical Losses in TNB Distribution Network Based on Load Profile and Feeder Characteristics*  
*A. Busrah, M. Yusoff, M. Mohamad, M.T. Au*
2. *Active Power Rescheduling in Power Transmission System*  
*N.R.H. Abdullah, I. Musirin, M. M. Othman*
3. *Transmission Usage Allocation Methods for Pool Electricity Market*  
*M. A. Almaktar, M. Y. Hassan, M. P. Abdullah, F. Hussin, M. S. Majid*
4. *Congestion Cost Allocation in Electricity Market; Comparison Study*  
*N. Z. I. Jasmani, M. P. Abdullah, M. Y. Hassan*
5. *Experimental-Simulation Analysis for 360km Overhead Transmission Line in RC and R-L Load Condition.*  
*S. A. Jumaat, N. M. Jamail, R. Aziz, R. Hamdan*
6. *Risk Assessment of Power System Due to Transmission Line Outage*  
*R. Jamein, I. Musirin, R. H. Salimin, M. M. Othman, T. K. A. Rahman*
7. *Simulating Effects Of Ferroresonance on Potential Transformer in 33kV Distribution systems using PSCAD/EMTDC*  
*P.H. Sobesobo Da Costa, P. Nallagownden, Kanaesalingam S.R.K, R.N Mukerjee*

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**Session R2-1 (11.30 a.m. – 12.30 noon)**

**Topic: Protection/High Voltage**

*Chairperson: Assoc. Prof. Dr. Ngah Ramzi Hamzah*

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1. *Design and Simulation of Oscillating Switching Surge Generators Using MATLAB*  
*M. Jayaraju1, M. R. Adzman, M. H. Sulaiman1, O. Aliman, I. Musirin, N.H. Hanafi*
2. *Partial Discharge Detection For Condition Monitoring Of An 11-KV XLPE Cable-Part II*  
*N. A. M. Jamail, A. Ponniran, Q. E. Kamarudin, S. A. Jumaat, N. A. Jalaludin*

3. *A Study on the Performance of Underground XLPE Cables Insulation Using Tan and Capacitance Measurements*  
A. Ponniran, N. A. M. Jamail, S. A. Jumaat, N. A. Jalaludin
4. *Comparison of PD Activities Pattern and DGA of Biodegradable and Mineral Transformer Insulation Oil during Partial Discharge Fault.*  
N. A. Muhamad, B. T. Phunga, T. R. Blackburna
5. *Development of an Empirical Equation for Insulator Leakage Current Studies in Fog Chambers*  
N. Bashir, H. Ahmad
6. *Transient Protection in Distribution System Using ZnO*  
M. Z. A. Baharuddin, I. Musirin, M. M. Othman, D. Johari, M. R. Adzman

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**Session R1-2: (2.00 p.m – 3.45 p.m)**

**Topic: Distributed Generation**

*Chairperson: Dr Muhammad Murtadha Othman*

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1. *Application of Isolated Boost Converter on the Adjustable Speed Drive (ASD) Operation During Sag and Swell*  
H. Salam, N. Hamzah
2. *Modelling of Microturbine Generation System Using Matlab/Simulink*  
K. R. Mansor, I. Musirin, M. F. A. Latip, M. M. Othman, D. Jooshi, T. K. A. Rahman
3. *Design of Solar Home System for Rural Areas*  
S. Naing, W. Swe
4. *Embedded Power Generation Studies in a Large Scale Local Power System*  
M. F. Alias, G. H. Hwang, K. B. Ching
5. *Performance Analysis of a Biomass Microturbine DG for Rural Electrification*  
M. S. Kandil, M. M. El-Saadawi, A. E. Hassan, K. M. Abo-Al-Ez
6. *Economical Analysis of a 4 kW Stand Alone Solar PV Based System for Rural Electrification in Pakistan*  
H. A. Sher, S. A. Qureshi, Z. J. Paracha, M. Owais
7. *Determination of Maximum DG Penetration Level that Maintain Protective Devices Coordination Unchanged: A Framework*  
M. S. Kandil, M. G. Osman, M. M. El-Saadawi, M. A. Saeed

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**Session R2-2: (2.00 p.m. – 3.45 p.m)**

**Topic: Power Quality**

*Chairperson: Assoc. Prof. Dr. Noraliza Hamzah*

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1. *Identification of sources of voltage sags in the Malaysian distribution networks using SVM based S-transform*  
*M. F. Faisal, A. Mohamed*
2. *Comparison on Performance of Voltage Sags Mitigation Techniques*  
*N. Saudin, N. S. Jamoshid, L. Mohamed, M. A. Mohamed, N. M. Nayan, I. Daut*
3. *Power Quality-A Complex and Diversified Problem in Power Industry*  
*Z. J. Paracha, A. Kalam*
4. *Power Quality Monitoring At Unimap Distributed Campus: Case Study At Library Office Building*  
*Indra N., Ismail D., Syafruddin HS., Risnidar C.B., Muhammad I., Surya H*
5. *Analysis of Unsymmetrical Faults in Power System with Superconducting Fault Current Limiter (SFCL)*  
*M. F. Johari, W. N. W. Abdullah*

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**Session R1-3: (4.00 p.m. – 5.00 p.m)**

**Topic: Power Electronics**

*Chairperson: Assoc. Prof. Dr. Ismail Musirin*

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1. *The Load Analysis of the New Zero-Voltage-Switching Synchronous Buck Converter*  
*N. Z. Yahaya, K. M. Begam, and M. Awan*
2. *Computer Design: Boost Rectifier Technique as Shunt Active Power Filter*  
*A. S. A. Hasim, N. Saudin, L. Mohamed, N. S. Jamoshid*
3. *Investigation and Simulation of the Effective Parameters on the IGBTs Paralleling*  
*N. Morovati, H. Feshki Farahani, A. M. Souroush*
4. *Design a Control Circuit for Single Phase Full Bridge Inverter*  
*B. Ismail, S. Taib, Z. M. Isa, I. Daut, M. I. Ahmad, S. Zakaria*
5. *Analysis of AC to AC Converter by Sinusoidal Pulse Width Modulation and Delta Modulation Techniques*  
*A. Agarwal , V. Agarwal*

**Session R2-3: (4.00 p.m. – 5.00 p.m)**

**Topic: Power System Planning & Operation**

*Chairperson: Assoc. Prof. Dr. Zuhaina Zakaria*

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1. *Risk Based Static Security Assessment Of Power Systems Considering The Effects Of Severity Function*  
*M. Marsadek, A. Mohamed, Z. M. Norpiah*
2. *Stochastic Latency in Substation Automation Systems; Concept, Application and Calculation*  
*B. Falahati, Z. Darabi, M. Vakilian,*
3. *Congestion Management on Planning and Operation of Power System by Stochastic Search Algorithms*  
*H. Sharifzadeh, A. Akbari*
4. *Market Dispatch of Pool and a Multilateral Contract System*  
*K. Singh, N.P. Padhy, J. D. Sharma*
5. *MFBLP Method Forecast for Regional Load Demand System*  
*Z. Baharudin, N. Kamel, I. Musirin,*
6. *Pre-Screening Process in Power System State Estimation*  
*N. M. Nor, R. Jegatheesan, P. Nallagownden*

**4<sup>th</sup> June 2009**

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**Session R1-4: (8.45 a.m. – 10.00 a.m)**

**Topic: Artificial Intelligence/Optimization**

*Chairperson: Dr Mohammad Nawawi Seroji*

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1. *Real Time Intelligent Method for Reactive Power Planning in an Emerging Power System Deregulation Environment*  
*T.O.Akinbulire, P.O.Oluseyi, I.O.Olaayan, C.O.A. Awosope, M.Odekunle*
2. *Particle Swarm Optimization Technique for Loss Minimization in Power Transmission Network*  
*M. R. M. Hussain, I. Musirin, M. S. M. Yusni, M. M. Othman, N. F. N. Ismail*
3. *Allocating the Real Power Transfer in Deregulated Power Systems Using Genetic Algorithm*  
*M. W. Mustafa, M. H. Sulaiman*
4. *Reactive Power Compensation in Radial Distribution Feeder with Laterals using Fuzzy – PSO Method*  
*S. M. Kannan, S. Vinayagapriyan, S. Srinath, N. Praveen, P. Prasanna*
5. *Fuzzy minimal generalized closed sets*  
*R. Parimelazhagan, N. Nagaveni*
6. *Allocation and Sizing of Multiple APLCs Using a Modified PSO*  
*I. Ziari, A. Jalilian*
7. *Optimal Multi-type FACTS Allocations in Power System Using Bees Algorithm*  
*R. M. Idris, A. Khairuddin, M. W. Mustafa*

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**Session R2-4: (8.45 a.m. – 10.00 a.m)**

**Topic: Electrical Machinery**

*Chairperson: Assoc. Prof. Dr. Chan Sei*

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1. *Analytical Solution to Fundamental Ferroresonance of Uneffectively Grounded Three Phase Transformers*  
*M. Moradi, A. Gholami*
2. *Normal Flux Distribution in 60° T-joint of Three Phase Transformer Core with Staggered Yoke 10mm*  
*D. M. M. Ahmad, I. Daut, N. A. M. Kajaan*

3. *Normal Flux Distribution in 60° T-joint of Three Phase Transformer Core with Staggered Yoke and Limb 10mm*  
D. M. M. Ahmad, I. Daut, N. A. M. Kajaan
4. *In-plane Flux Distribution in 90° T-joint of 3Phase Transformer Core with staggered yoke 10mm*  
D. M. M. Ahmad, I. Daut, S. Zakaria
5. *Design Consideration of Crankshaft for 72HP Mazda Jeep Engine*  
L. M. Wint, M. S. Mon
6. *Angular Position Control of DC-Motor Using Microcontroller*  
A. Ko, K. M. Aye, M. M. Khaing
7. *Analysis of Engine Performance Using Various Biodiesel Blend from Jatropha Oil*  
H. Khaing, M. S. Mon

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**Session R1-5: (10.15 a.m. – 11.30 p.m)**

**Topic: Power Electronics**

*Chairperson: Assoc. Prof. Dr. Ahmad Maliki Omar*

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1. *Analysis of switching frequency and inductors value in Neutral Point Type Buck-boost Converter*  
N. M. Hidayat, Y. Kato, Y. Itoh
2. *Single Phase Matrix Converter with Improved Commutation Strategy*  
S. Gupta, V. Agarwal
3. *Incorporating UPFC device in the power flow*  
O. L. Bekri, M. K. Fellah
4. *Comparing Switching Performances of Power Electronics Devices: Si GTO and SiC GTO Thyristors*  
N. Mohamed, M. Z. Sujod
5. *Photovoltaic Maximum Power Improvement Using Two Axis Solar Tracking*  
I. Daut, M. Sembiring, M. Irwanto, S. Hardi
6. *Optimization of Multilayer Antireflection Coating For Solar Cells*  
N. Hamzah, P. M. Arsad, M. Hanafiah

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**Session R2-5: (10.15 a.m. – 11.30 p.m)**

**Topic: Power Quality**

Chairperson: Dr. Goh Hui Hwang

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1. *Investigation of Shunt Filter Effects on Harmonics in Distribution System*  
I.Daut, Risnidar. Chan, S. Hardi, N.Hashim, I. Nisja, Syafruddin HS, M. Irwanto
2. *Support Vector Machine Method To Classify the Voltage Sag Disturbance in Power System*  
H. Ismail, Z. Zakaria, N. Hamzah
3. *Investigation of a Power Factor Corrector Using Voltage Source Converter*  
N. Anuar, P.M. Arsad, N. Hamzah
4. *Power System Risk Assessment Using Fuzzy Set and Monte Carlo Simulation Technique*  
S. R. Kasim, M. M. Othman, N. F. A. Ghani, I. Musirin, M. F. A. Latip, A. Mohammed, A. Hussain
5. *Particle Swarm Optimization Technique in Economic Dispatch Problems*  
F. Hashim, I. Musirin, R. H. Salimin, N. Aminuddin, T. K. A. Rahman
6. *Classification of Transient in Power System Using Support Vector*  
F. H. Anuwar, Z. Zakaria & N. Hamzah

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**Session R1-6: (2.00 p.m. – 3.30 p.m)**

**Topic: Power System Planning & Operation**

Chairperson: Dr.Muhammad Murtadha Othman

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1. *Design and Simulation of Automatic Generation Control System*  
O. Soe, S. T. L. Zathan
2. *Energy Efficiency Analysis on Malaysian Transportation Sector*  
A. Al-Mofleh, S. Taib , H. Al-Gulman , W. Salah
3. *Economic Dispatch Studies for IEEE 14-Bus Distribution*  
M. Z. Samsuddin, G. H. Hwang, K. B. Ching
4. *Performance of Fast Voltage Stability Index (FVSI) as an indicator for Under Voltage Load Shedding Scheme in a Bulk Power System Network.*  
A. Ramasamy, R. Verayah, H. I. Zainal Abidin, I. Musirin
5. *Composite Power System Expansion Planning*

*N. F. A. Ghani, M. M. Othman, S. R. Kasim, I. Musirin, M. F. A. Latip, A. Mohammed, A. Hussain*

6. *Available Transfer Capability Assessment Considering Steady-State and Transient Stability Constraints*

*S. Busan, M. M. Othman, A. Mohamed, A. Hussain*

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**Session R2-6: (2.00 p.m. – 3.30 p.m)**

**Topic: Power System Stability**

*Chairperson: Ir. Perumal Nallagownden*

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1. *Computer-aided Transient Stability Analysis of Multimachine Power System*  
*K. M. Lin, T. Tin, P. L. Swe*
2. *Application of Voltage Stability Indicator to Prevent Distance Relay Mal-operation during Voltage Collapse in Power System*  
*A. F. Abidin, A. Mohamed, H. Shareef*
3. *Using STATCOM /SMES for the improvement of power system transient stability*  
*R. Sedaghati , A. R. Seifi, A. Lashkarara*
4. *Assessment of Voltage Stability and Static ATC with Expanded NR-S and CPF-GMRES*  
*M. Eidiani, H. Zeynal, M. W. Mustafa*
5. *Evaluation of Hopf Bifurcation Considering the Effect of Load Models and Excitation System Parameters*  
*N. Amjady, M. H. Velayati*
6. *Determination of best Location of SVC Device for Damping Oscillations*  
*M. W. Mustafa, N. Magaji, Z. Muda*
7. *Study of Machine Parameters Effect on Clearing Time and Stability of Power Systems*  
*R.A.Rahim, C.M. Hadzer, K.Jamilah*
8. *Integration of Distributed Generators into Power System for Loss Minimization and Voltage Stability*  
*M. K. F. M. Salleh, W. N. W. Abdullah*