

THE FINAL PROGRAM
The First International Workshop on Modern Research Methods in
Electrical Engineering 2009 (IWorMEE '09)
Hotel Horison and Hasanuddin University Campus, Makassar
3-6 August 2009

Day/Time	Event	Speaker	Location	Page
Day 1:8:30	Workshop Welcome	Elyas Palantei	Hotel	
8:40	Opening Ceremony	Welcome Speech: 1). Dr. Zahir Zainuddin, MSc. (Head of Electrical Engineering Department) 2). Prof. Dr. Muhammad Saleh Pallu, M.Eng. (Dean of Engineering Faculty) 3). Prof. Dr. dr. Idrus Patturusi (Rector of Hasanuddin University). 4). Ir. H. Ilham Arif Sirajuddin, MM (Mayor of Makassar City) 5). Dr. H. Syahrul Yasin Limpo, MH., MSi. (Governor of Sulawesi Selatan Province)		iv v vi ix x
9:30	Plenary 1: “Sustainability and New Opportunities in Electronic	Prof. David Victor Thiel, Griffith University,		1-5

	Engineering Research”	Australia		
10:20-10.35	Morning Coffee/Tea			
10:35	Plenary 2: “Rural Electrification in Indonesia with Emphasis on Microhydro Electric Scheme: A Challenge to Implement More Appropriate Research Methods”	Prof. Budiono Mismail, Brawidjaya University (UNIBRAW), Indonesia		6-14
11:20	Plenary 3: “A Miniaturized Model of the Industrial Solid Material Process Control Plant”	Dr. Rhiza S Sadjad, Hasanuddin University, Indonesia		15-20
11:50	Plenary 4: “Perspective in Planar Antenna Engineering Research in Indonesia”	Prof. Eko Tjipto Rahardjo, University of Indonesia (UI), Indonesia		21-28
12:30-13.30	Lunch			
13:15	Plenary 5: “Framework for Self-Maintenance Machine”	Prof. Baharuddin Abdoollah B, UTEM, Malaysia		29-37
13:35	Plenary 6:”Future Trends of MIMO Technology in WiMAX Systems”	Dr. Trio Adiono, Institute of Technology, Bandung, Indonesia		38-42
14:10	Plenary 7: “Quantum Intermixing For Monolithic Integration of Different Optoelectronic Devices”	Dr. Paulus (MIPA) Speaker from UNHAS		43-50

14:35	Afernoon Tea/Coffee			
14:45	Plenary 8: “Research Prospects in Electrical Engineering and Informatics at Hasanuddin University: Trends and Challenges”	E. Palantei, R.S. Sadjad, M. Anshar, Indrabayu A., N.N.R.A. Mokobombang, A. Suyuti, Z. Zainuddin, Z. Muslimin, and N.Harun, Electrical Engineering Department, UNHAS		51-59
15:20-15.40	Plenary 9: “Current Research Trend in Intelligent Robotics”	Prof. Wahidin Wahab, University of Indonesia (UI), Indonesia		60-63
16:45	End Day 1			
Day 2:			Hasanuddin U.	
9:00-10.10	Research methods 1,2	David Thiel	Lecture theatre	
10:10-10.35	Morning Tea/Coffee			
10:35-	Research methods 3,4	David Thiel	Lecture theatre	
12:00	Lunch			
1:00	Workshop practice 1	David Thiel	Class rooms	
2:30	Coffee break			
2:50	Workshop practice 2	David Thiel	Class rooms	
3:15	Summary & End Day 2			
Day 3:			Hasanuddin U.	
9:00	Numerical Methods in Electrical Engineering (Sections 1 & 2)	David Thiel	Lecture theatre	
10:15	Morning Tea/Coffee			
10:35	Optimisation Techniques in Electrical Engineering (Section 1&2)	David Thiel	Lecture theatre	
12:00	Lunch			
1:00	Workshop Practice:	David Thiel	Class Rooms	

	Numerical Methods			
2:30	Afternoon Tea/Coffee			
2:50	Workshop Practice: “Optimisation Techniques”	David Thiel	Lecture theatre	
3:15	Summary & End Day 3			
Day 4:			Hasanuddin U.	
9:00	New Materials in Electrical Engineering	Salama M	Lecture theatre	1-8
09:50	Morning Tea/Coffee			
10:05	“Current Research Trend towards Intelligent Robotics”	Wahidin Wahab, University of Indonesia (UI), Indonesia	Lecture theatre	
10.55	”Bus Impedance Matrix Computation Using Electrical Entities”	Akhmad Toyib Rahardjo, Electrical Engineering Department, Hasanuddin University	Lecture Theatre	9-16
12:00	Lunch			
1:00	Embedded Robotics Implementations	Muhammad Anshar	Lecture Theater	17-23
2.45	Tensor Analysis Application to Characterize the Motor of Asynchronous 3- Entwine Rotor Phase at the Operation Voltage of 350 Volts	Muchtar Saleh	Lecture Theater	24-30
3:15	Afternoon Tea/Coffee			
2:50	Microcontroller Programming for Smart Antennas	Elyas Palantei	Lecture Theatre	31-46
3:15	Local Tour			