

RESERVE Interdisciplinary course „Challenges and solutions in Future Power Networks“

RWTH Aachen University, Aachen (Germany), 11-15 March 2019

Day Time	Monday	Tuesday	Wednesday	Thursday	Friday	
	Part I Challenges and Solutions		Part II Technical Insights			
09:00	Welcome session (A. Monti, RWTH Aachen)	Keynote ICT (F. Williams, Ericsson)	Cyber Security Workshop (G. Lipari, RWTH) (including coffee break)	Voltage Control Workshop Theory (RWTH) (2-3 units including coffee break) (M.Pau, M. Cupelli)	ICT for Energy - theory + exercises (Ericsson)	
09:30	Keynote Energy (R. De Doncker, RWTH Aachen)					
09:45						
10:00		ICT for Smart Grids with Up To 100% Renewables (S. Bretzke, Ericsson)				
10:15	<i>Coffee Break</i>					
10:30	Today's electrical Networks (A. Monti, RWTH Aachen)	<i>Coffee Break</i>				<i>Coffee Break</i>
11:00		Network Codes (today, future, ENTSO.E)(M.Paun, Romanian Energy Center)				
11:30	Key Concept for future Frequency definition and control (L.Toma, UPB, Bucharest)					Exam- Multiple choice
12:00						
12:30	<i>Lunch Break</i>	<i>Lunch Break</i>			<i>Lunch Break</i>	<i>Lunch Break</i>
13:00						
13:30	Linear Swing Dynamic: a new approach to frequency control" (Dr. Raisz, RWTH Aachen)	Business Cases & Corporate Social Responsibility (CSR) (P.Letmathe, RWTH-CON)	Frequency Control Workshop Theory (2-3 units including coffee break) (L.Toma, UPB; A. Musa, RWTH, E.Bompard/A.Mazza, POLITO)	Lab exercises Frequency & Voltage control (RWTH, Ph.D students)	Outlook and feedbacks	
14:00						Certificates Handover & Conclusion
14:30	Voltage Control (M.Cupelli, RWTH Aachen)					
15:00		<i>Coffee Break</i>				
15:30	<i>Coffee Break</i>					
16:00	Components for grid connections power electronics (PGS-De Doncker)	Cybersecurity for Sustainable Energy Systems (Prof. Alan Mantooth)				
16:30						
17:00	<i>Break and poster session preparation</i>	Optional Lab tour : i.e.: E.ON ERC -ACS/ CWD/FIR/iGO... (RWTH)				
17:30						
18:00						
18:30						
19:00			"Academia meets industry" Poster session & Networking / finger food dinner		Optional Get-Together (i.e. pub tour..)	
19:30						
20:00						
20:30						