

**STRATEGIC WORKSHOP
TRENDS AND CHALLENGES FOR WIND ENERGY HARVESTING
COIMBRA, 30 & 31.03.2015**

30 March (Monday)

11:00 – 11:10	Opening session	Action Chair Action Co-Chair C. Rebelo (L. Organiser) L. Simões da Silva (DEC-UC Director)
11:10 – 11:30	Invited Lecture: COST TU1205 Building Integrated Solar Thermal systems	Laura Aelenei
SW – PART I	State of the Art of the Wind Characteristics in Disturbed and Non-Disturbed Environment	Chair: B. Blocken Co-Chair: H. Hemida
11:30 – 11:50	Wind flow in urban environment	Janet Barlow
11:50 – 12:10	Experimental investigation of wind flow above the roof of a high-rise building	Hassan Hemida
12:10 – 12:30	Behaviour of a horizontal and vertical axis small wind turbine under low and high turbulence regime	Luisa Pagnini
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12:30 – 14:00	Lunch	
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14:00 – 14:20	An examination of the potential for distributed wind generation (DwG) in urban distribution networks	Keith Sunderland
14:20 – 14:40	Experimental investigation of interference effect of high-rise buildings for wind energy extraction	Anina Sarkic
14:40 – 15:00	CFD simulation of wind environmental conditions over natural complex terrain	Bert Blocken
15:00 – 15:20	An Experimental and Numerical study of the airflow around university buildings in Tübingen	Asmae El-Bahlouli
15:20 – 15:40	Preliminary CFD simulations for the torque wind turbine	Alessandro Pizzoferrato
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15:40 – 16:10	Coffee break	
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16:10 – 16:30	Investigation of wind characteristics at urban scale through scaled model wind tunnel tests	Paolo Schito
16:30 – 16:50	Inflow Uncertainty Quantification within urban environments: wind fields and dispersion patterns	Clara Garcia Sanchez
16:50 – 17:30	Discussion	
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20:00	Workshop Dinner	

31 March (Tuesday)

SW – PART II	State of the Art of the Wind Energy Structures and Emerging Applications	Chair: M. Veljkovic Co-Chair: T. Morbiato
9:00 – 9:20	Onshore wind towers, basics of structural design	Milan Veljkovic
9:20 – 9:40	Design of offshore wind energy support structures	Peter Schaumann
9:40 – 10:00	Monitoring techniques for the detection of fatigue damages at wind energy converters	Rüdiger Höffer
10:00 – 10:20	Integrated analysis software for wind turbines	Paul Thomassen
10:20 – 10:40	Nonlinear wave loads and dynamic response of wind turbine systems	Enzo Marino
10:40 – 11:10	Coffee break	
11:10 – 11:30	Aerodynamic losses of transport systems as a new wind energy market: evaluation of the behaviour of a mini-VAWT	Tommaso Morbiato
11:20 – 11:40	A review of Power Converters for Wind Energy Systems	Ciril Spyteri
11:40 – 12:00	Discussion	
SW-PART III	Society Acceptance and Related Issues	Chair: R. Borg Co-Chair: S. Huber
12:00 – 12:20	A Review of non-technical issues of wind power and smart cities	Stefanie Huber
12:20 – 12:40	A Review of Environmental Impact Analysis of Wind Turbines	Ruben Borg
12:40 – 14:00	Lunch	
14:00 – 14:20	Planning and environmental considerations for the development of wind energy in the urban environment	Conor Norton
14:20 – 14:40	Smart cities - The role of local authorities in the engagement of small wind turbines in urban areas	Christos Efstathiades
14:40 – 15:00	Urban Wind Energy: exposing Sustainability Symbolism or a hidden existence	Neveen Hamza
15:00-15:20	Analysis of environmental, economic, social factors and efficiency of wind turbines in Lithuania	Mantas Marciukaitis
15:20 – 15:30	Discussion	
15:30 – 16:00	Coffee break	
16:00 – 17:00	WGs Presentations-Conclusions	WG Chairs