



# 10th International Conference on Wind Turbine Noise

**All times are Dublin - UTC+1**

Day	Start	End	Subject	Chair/Moderator
Tuesday	17:00	19:00	Registration at the Venue	
	18:00	21:00	Join us for a drink and snack at O'Neills Bar	

Wednesday	08:15		Registration at the Venue - Coffee etc	
	09:30		Opening of Conference	
	09:40		A - Propagation - 1	Sabine von Hunerbein
	11:40		B - Propagation - 2	Susanne Koenecke
	13:00		Lunch	
	14:00		C - Mode Management	Bo Sondergaard
	15:40		D - Guidelines & Regulations	David Ecotiere
	17:20		E - Forum "Are we moving towards a consensus on WTN regulation"	Matthew Cand

Wednesday	19:30		Conference Dinner at The Harbourmaster	
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Thursday	08:30		F - Source Noise-1	Michaela Herr
	10:20		G - Source Noise - 2	Cordula Hornung
	11:50		H - Forum - Wind turbine noise reduction: beyond serration...	Franck Bertagnolio
	12:40		Lunch	
	13:40		I - Impact on People - 1	Gundula Huebner
	15:30		J - Impact on People - 2	David Michaud
	17:10		K - FORUM on Impact on People. Principal speaker Julia Kirch Kirkegaard	Mark Bastasch

Friday	08:30		L - Compliance	Emily Tilbury
	10:30		M - Miscellany including AM	David Colby
	12:30		Lunch	
	13:30		N - Tonal Noise	Roger Drobietz
	15:30		Conference Ends - Conversation and Coffee etc	

Details on the following pages

All items on the Programme are open to Delegates  
Where the lead author is not presenting the presenter is in (brackets)

# 10th International Conference on Wind Turbine Noise

Wednesday 21st June 2023		
08:15	Registration at the Venue - Coffee etc	
09:30	Opening of Conference	
<b>09:40</b>	<b>A - Propagation - 1</b>	<b>Sabine von Hunerbein</b>
09:40	Schall_KoGe - measurements, simulations, and validation of wind turbine noise in complex terrain	Schady
10:00	Exploring the effect of wind farm flow on wind turbine noise propagation through numerical simulations	Colas
10:20	High resolution analysis of measurements, and comparison of models for long distance noise propagation over water for an elevated height-adjustable sound source	Thysell
10:40	Do measured immission data support the accepted norms on wind turbine propagation directivity as reported by the IoA GPG and is wind speed a significant variable?	Garnett
11:00	Discussion	
11:20	Break - Coffeee etc	
11:40	<b>B - Propagation - 2</b>	<b>Susanne Koenecke</b>
11:40	Influence of boundary layer height on the downwind sound propagation from a 5 MW wind turbine	Manelil
12:00	Evaluation of real noise effect inside the dwelling with open windows, a methodol	Bartolazzi
12:20	WindTUNE: a new tool for modelling wind farm noise uncertainties	Kayser (Ecotiere)
12:40	Discussion	
13:00	Lunch	
14:00	<b>C - Mode Management</b>	<b>Bo Sondergaard</b>
14:00	Noise curtailment plan optimization and manufacturer constraints	Finez
14:20	Wind turbine directional noise reduced operations – description and measurement	Old
14:40	Optimizing the locations of turbines in a wind farm according to acoustic and spatial constraints	Bigot
15:00	Discussion	
15:20	Break - Coffeee etc	
15:40	<b>D - Guidelines &amp; Regulations</b>	<b>David Ecotiere</b>
15:40	A year in review: ANSI/ACP's new standard for wind turbine sound predictions	Bastasch
16:00	Practical application of standard 61400-11 : lessons learned on a case study	Junker
16:20	Guidelines for Environmental Assessment of Wind Farm Noise in Chile	Bastian-Monarca <b>REMOTE</b>
16:40	Wind energy and health: the Dutch case	van Poll
17:00	Standards for regulating environmental impact of wind turbines	Koppen (Ekelschot-Smink)
17:20	Discussion	
17:40	Short Break	
17:50	<b>E - Forum "Are we moving towards a consensus on WTN regulation"</b>	<b>Matthew Cand</b>
18:40	Close	

# 10th International Conference on Wind Turbine Noise

Thursday 22nd June 2023			
<b>08:30</b>		<b>F - Source Noise-1</b>	<b>Michaela Herr</b>
08:30		Study on the Capabilities of a TNO-Based Trailing Edge Noise Prediction Tool Applied to Boundary Layer Suction on a NACA 64-418 Airfoil	Haubold
08:50		Numerical Study on the Reduction of Blunt Trailing Edge Noise by the Use of Vortex Generators	Seel
09:10		Experimental investigation of noise from a wall-mounted swept tip blade in a wind tunnel	Lylloff
09:30		Computational study on the aeroacoustics of the X-Rotor – a hybrid vertical - horizontal axis wind turbine	Wu
09:50		Discussion	
10:00		Break - Coffeee etc	
10:20		<b>G - Source Noise - 2</b>	<b>Cordula Hornung</b>
10:20		Noise prediction for wind energy turbines based on CAA methods	Appel (Herr)
10:40		Wind turbine noise code benchmark: A comparison and verification exercise	Bertagnolio
11:00		Aero-acoustic prediction tool for complex wind turbine blade configurations	Wang (Hurault)
11:20		Discussion	
11:40		Short Break	
11:50		<b>H - Forum - Wind turbine noise reduction: beyond serration...</b>	<b>Franck Bertagnolio</b>
12:40		Lunch	
13:40		<b>I - Impact on People - 1</b>	<b>Gundula Huebner</b>
13:40		Evaluation of acoustic measurements in relation to annoyance reports from residents in the vicinity of a wind farm	Blumendeller
14:00		The masking effect of vegetation- and wave noise on wind turbine noise audibility	Sondergaard L
14:20		Noise forecast app: positively impacting non-acoustic factors	Koppen
14:40		No discernible effect of wind farm infrasound exposure on electroencephalographic markers of sleep disturbance	Catcheside
15:00		Short Discussion	
15:10		Break - Coffeee etc	
15:30		<b>J - Impact on People - 2</b>	<b>David Michaud</b>
15:30		Socio-psychological effects of wind turbine noise: Research activities of IEA Wind TCP Task 39 (Work Packages 4 & 5)	King
15:50		Wind farm compared to road traffic noise onset induced arousal responses during sleep	Catcheside
16:10		Analysis of Mitigation Measures for Wind Turbine Noise Annoyance – A field experiment in the interdisciplinary project Inter-Wind	Huebner
16:30		Closing in on the Wind Turbine "Sasquatch" – Whose Name is "Annoyance"	Palmer <b>REMOTE</b>
16:50		Short Discussion	
17:00		Short Break	
17:10		<b>K - FORUM on Impact on People. Principal speaker Julia Kirch Kirkegaard</b>	<b>Mark Bastasch</b>
18:30		Close	

# 10th International Conference on Wind Turbine Noise

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Friday 23rd June 2023			
<b>08:30</b>		<b>L - Compliance</b>	<b>Emily Tilbury</b>
08:30		A comparison of methods for identifying wind turbine sounds in big data sets	Schoessow
08:50		A comparison of wind data sources for wind farm noise compliance assessments	Baldwin
09:10		The use of proxy monitoring locations to assess planning compliance at receptor distances	Garnett (Sutherland)
09:30		Continuous monitoring of wind turbine noise	Rosao REMOTE
09:50		Discussion	
10:10		Break - Coffeee etc	
10:30		<b>M - Miscellany including AM</b>	<b>David Colby</b>
10:30		Apportionment of wind farm noise limits: Observations from using UK good practice guidance	Dell
10:50		Uncertainties on measured and predicted noise levels for wind farms. Do we need it?	Sondergaard B
11:10		Evolution of sound production of onshore wind turbines	van den Berg (Koppen)
11:30		Experience using the IOA AM method, and how the results may vary with distance and direction	Levet
11:50		Detection and assessment of amplitude modulated noise of wind turbines	Bauerdorff
12:10		Discussion	
12:30		Lunch	
13:30		<b>N - Tonal Noise</b>	<b>Roger Drobietz</b>
13:30		Investigation of the Low Frequency Noise from the Large Modern Wind Turbines	Sharma
13:50		A Study on Sound Propagation of Mid-Speed Drivetrains and how to avoid Tonality Issues	Kari
14:10		Wind turbine tonality - A holistic approach to its prediction and mitigation	Kanpolat
14:30		Adaptive Tuned Mass Dampers for reduction of multiple resonances in variable speed wind turbine applications	Busch
14:50		Tone propagation and receptor levels	Gupta
15:10		Discussion	
15:30		<b>Conference Ends - Conversation and Coffee etc</b>	