7th International Conference on Wind Turbine Noise

Day	Start	Sess	Subject	Chair
	08:30		Registration	
	11:00		Opening - Gijsjan van Blokland	
Tuesday	11:05	A	Perception and Health Effects - 1	Gijsjan van Blokland
	13:30	B	Aspects of Source Noise - 1	Jean Tourret
	15:40	C	Amplitude Modulation - 1	Dick Bowdler
	17:15	D	Poster and Exhibition Drinks	Sabine von Hunerbein
	08:30	E	Perception and Health Effect - 2	Carlos Arce Leon
	10:15	F	Perception and Health Effect - 3	David Colby
Wednesday	11:40	G	Workshop - CPC	Matthew Cand
	13:40	H	Shadow Flicker	Sylvia Broneske
	15:50	I	International Perspectives	Mark Bastasch
	17:15	J	Poster Workshop - Propagation and Background Noise	Sabine von Hunerbein
	08:30	K	Assessment and Compliance - 1	Brian Howe
Thursday - Hall 1	10:40	L	Assessment and Compliance - 2	Bo Sondergaard
	13:30	M	Low Frequency and Tones	Christophe Delaire
	15:40	N	Infrasound	Geoff Leventhall
	17:15	O	Seminar: Aeroacoustic investigation of noise sources	Daniele Ragni
	08:30	P	Validation of TE Modelling	Wouter van der Velden
Thursday - Hall 2	10:40	Q	Combined Modelling	Daniele Ragni
	13:30	R	Trailing Edge Serrations	Irene Lauret-Ducosson
	15:40	S	Source Localisation and Identification	Payam Ashtiani
	17:15	T	Workshop - See Hall 1	
Thursday	19:30		Conference Dinner - De Majesteit	
	08:30	U	Amplitude Modulation - 2	Matthew Cand
Friday	10:15	V	Amplitude Modulation - 3	Geoff Leventhall
	11:40	W	Guest Speaker - Willem Roose.	Erik Roelofsen
	13:20	X	Aspects of Source Noise - 2	Frits van den Berg
	15:10		Conference Ends	

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)

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Poster Presentations

Group	Title	Author
A - Background Noise	Background Noise Variability Relative to Wind Direction, Temperature, and Other Factors	Pellerin
	Efficient tools for assessing the emergence, audibility and masking potential of wind turbine noise by background noise	Bollinger
	Variation of wind induced non-turbine related noise due to position, shelter, wind direction and season	Sondergaard

Group	Title	Author
B - Regulations	Evaluation of Wind Turbine Noise in Japan	Nameki (Shimada)
	Noise guidelines for countries where no national regulations are available. A discussion of the IFC EHS Guidelines for Wind Energy	Dutilleux
	Environmental Impact Assessment of Wind Power Generation Plan in Korea	Sun

Group	Title	Author
C - Propagation	Assessment of the error between measured and predicted noise levels from wind farms	Schillemans
	Sound propagating from wind turbines in winter conditions	Conrady
	Wind turbine noise prediction using Olive Tree Lab Terrain	Bigot
	Annual investigation of sound propagation from a boreal wind park	Bolin
	Comparison of measured and calculated noise levels in far distances of wind turbines	Kock (Cruz)
	Comparison of Sound Propagation Models for Offshore Wind Farms	Du

Group	Title	Author
	Verification and Validation of the "PNoise" Airfoil Trailing-Edge Noise Prediction Module inside "Qblade"	Saab

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Tuesday 2nd May		
11:00	**Opening - Gijsjan van Blokland** **President of the Acoustical Society of the Netherlands**	
	Perception and Health Effects - 1	**Gijsjan van Blokland**
11:05	Partial masking and the perception of wind turbine noise in ambient sounds	Johansson (Bolin)
11:25	Wind Turbine Noise Dose Response - Comparison of Recent Studies	Old
11:45	Impact of noise from suburban wind turbines on human well-being	Qu (Video)
12:05	Discussion	
12:30	Lunch	
	Aspects of Source Noise - 1	**Jean Tourret**
13:30	Sound power level measurements 3.0	Eilders
13:50	Analysis of sound emission by using amplitude modulation components of wind turbine noise	Okada
14:10	Modelling activities in wind turbine noise aeroacoustics at DTU Wind Energy	Shen
14:30	Long-term experimental campaign on an operating wind turbine for trailing edge serrations verification	Lauret-Ducosson
14:50	Discussion	
15:20	Break	
	Amplitude Modulation - 1	**Dick Bowdler**
15:40	Development of an approach to controlling the impact of amplitude modulation in wind turbine noise: exposure-response research, application and implementation	Perkins
16:00	An investigation into correlation between strong wind turbine amplitude modulation and environmental conditions	Halstead
16:20	Extended simulations of wind noise contamination of amplitude modulation ratings	von Hunerbein
16:40	Discussion	
17:15	Introduction of Posters and Exhibitions. Drinks reception for all delegates.	**Sabine von Hunerbein**
18:45	Close	

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	Wednesday 3rd May 2017	
	Perception and Health Effect - 2	**Carlos Arce Leon**
08:30	Low-frequency noise incl. infrasound from wind turbines and other sources	Herrmann
08:50	A 'social review' of wind turbine noise	van den Berg
09:10	Wind turbine noise – An overview of current knowledge and perspectives	Bauerdorff
09:30	Discussion	
09:55	Break	
	Perception and Health Effect - 3	**David Colby**
10:15	Why do some people believe that they are "made ill" by wind turbine noise	Leventhall
10:35	Human response to wind turbine noise: infrasound and amplitude modulation	Feist
10:55	Wind turbines in hilly terrain – Response of residents to sound disturbance related to sound and meteorological measurements	Sjoblom
11:15	Discussion	
	Workshop - CPC	**Matthew Cand**
11:40	Cyclic Pitch Control (CPC) and other avenues for amplitude modulation mitigation.	
12:40	Lunch	
	Shadow Flicker	**Sylvia Broneske**
13:40	International Legislation and Regulations for Wind Turbine Shadow Flicker Impact	Koppen
14:00	The development and limits of the German shadow flicker guidelines	Ritter
14:20	The visual effects of wind turbines in Japan	Yano
14:40	Presenting insights from shadow flicker compliance monitoring	Longbottom (Mackay)
15:00	Discussion	
15:30	Break	
	International Perspectives	**Mark Bastasch**
15:50	Addressing a management strategy of Wind Farms Noise Control in Chile	Parra
16:10	Comparison of Measured and Modelled Wind Turbine Noise in Indian Terrain	Arivukkodi
16:30	A new characterization of wind turbine noise from Life Cycle Assessment	Rivarola
16:50	Discussion	
17:15	Workshop on Poster Subjects. Sound propagation and Background Noise	**Sabine von Hunerbein**
18:45	Close	

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	Thursday 4th May 2017 - Hall 1	
	Assessment and Compliance - 1	**Brian Howe**
08:30	Experience of reviewing wind farm noise assessments for Scottish local authorities and the implementation of the IOA Good Practice Guide.	Summers
08:50	Evaluation of wind farm noise in Switzerland – Comparison between measurement and modeling	Desarnaulds
09:10	A case study of how to involve impacted neighbours in measuring and characterizing windfarm noise	Vagene
09:30	A Rigorous Method of Addressing Wind Turbine Noise	Palmer
09:50	Discussion	
10:20	Break	
	Assessment and Compliance - 2	**Bo Sondergaard**
10:40	Assessment of WTN by separating residual noise without the farm shutdown: Validation of the Italian procedure	Fredianelli (Carpita)
11:00	Characterizing the acoustic noise from wind turbines by using the divergence of the sound pressure in the ambient	Buzduga *NOT PRESENTED*
11:00	Impact of various national codes on wind farm design	Thomas Sorensen *PAPER NOT IN PROCEEDINGS*
11:20	Using long term monitoring for noise assessment of wind farms	de Beer
11:40	The Challenges and Benefits of Long-Term Noise Monitoring of Wind Farm Sites	Brush
12:00	Discussion	
12:30	Lunch	
	Low Frequency and Tones	**Christophe Delaire**
13:30	Tonal noise mitigation on wind turbines	Marmo
13:50	Origin, Transfer and Reduction of Structure-Borne Noise in Wind Turbines	Schneider (Hanus)
14:10	Low-frequency micro-seismic radiation by wind turbines and it's interaction with acoustic noise emission	Gortsas (Kudella)
14:30	Subjective experiments on the perception of tonal component(s) contained in wind turbine noise	Yokoyama
14:50	Discussion	
15:20	Break	
	Infrasound	**Geoff Leventhall**
15:40	Propagation through a turbulent atmosphere makes blade passage harmonics audible	Richarz
16:00	The assessment of hearing thresholds in the presence of infrasound	Zajamsek
16:20	Measurement Techniques for determining Wind Turbine Infrasound Penetration into Homes	Metelka
16:40	Discussion	
17:15	Seminar by TU Delft and GRAS: Aeroacoustic investigation of noise sources: measurements and computations	**Daniele Ragni**
18:45	Close	

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	Thursday 4th May 2017 - Hall 2	
	Validation of TE Modelling	**Wouter van der Velden**
08:30	Computational Aeroacoustics of Small Vertical Axis Wind Turbines by Applying a Hybrid Approach	Weber (Becker)
08:50	High Fidelity Airfoil Trailing Edge Noise Predictions via Lattice-Boltzmann Simulations	Manegar
09:10	Small Horizontal Axis Wind Turbine: Aeroacoustic and Aerodynamic Optimization of Airfoil and Blade	Volkmer
09:30	Predicted and Measured Trailing-Edge Noise Emission for a 2.3 MW Wind Turbine	Hornung
09:50	Discussion	
10:20	Break	
	Combined Modelling	**Daniele Ragni**
10:40	Coupled wind turbine noise generation and propagation model: A numerical study	Bertagnolio
11:00	A Comprehensive Hamiltonian Ray Tracing Technique for Wind Turbine Noise Propagation under Arbitrary Weather Conditions	McBride (Burdisso)
11:20	Investigation of Amplitude Modulation Noise with a Fully Coupled Noise Source and Propagation Model	Barlas
11:40	Aeroacoustic simulation of multiple wind turbine source interaction	Robin
12:00	Discussion	
12:30	Lunch	
	Trailing Edge Serrations	**Irene Lauret-Ducosson**
13:30	Acoustic measurements of a DU96-W-180 airfoil with flow-misaligned serrations at a high Reynolds number in a closed-section wind tunnel	Merino-Martinez
13:50	Trailing edge serrations - effect of their flap angle on flow and acoustics	Arce Leon
14:10	An Experimental Parametric Study of Airfoil Trailing Edge Serrations	Carolus
14:30	Wind Turbine Rotor Noise Prediction and Reduction for Low Noise Rotor Design	Kamruzzaman
14:50	Discussion	
15:20	Break	
	Source Localisation and Identification	**Payam Ashtiani**
15:40	Modelling and localizing low frequency noise of a wind turbine using an array of acoustic vector sensors	Fernandez Comesana
16:00	Use of the Acoustic Camera to accurately localise wind turbine noise sources and determine their Doppler shift	Bradley
16:20	Wind turbine sound prediction: Modelling and case study on the effect of blade elasticity	Schorle
16:40	Discussion	
17:15	**In Hall 1** - Seminar by TU Delft and GRAS: Aeroacoustic investigation of noise sources: measurements and computations	
18:45	Close	

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	Friday 5th May 2017		
	Amplitude Modulation - 2		**Matthew Cand**
08:30	The occurrence of nocturnal wind farm rumbling noise		Hansen
08:50	Pre-construction Site Prediction Tool for Wind Farm AM - Do We Now Know Enough?		Birchby
09:10	An Investigation into Short-Term Fluctuations in Amplitude Modulation of Wind Turbine Noise. Preliminary Results		Bonsma
09:30	Discussion		
09:55	Break		
	Amplitude Modulation - 3		**Geoff Leventhall**
10:15	Application of the UK IOA Method for Rating Amplitude Modulation		Coles
10:35	Comparison of the IOA method and Japanese F-S method for quantitative assessment of amplitude modulation of wind turbine noise. A study based on the field measurement results in Japan		Fukushima
10:55	Putting the IOA preferred AM assessment method and the proposed penalty scheme into practice - an outlook for future developments of wind farms in the UK		Lowe
11:15	Discussion		
	Guest Speaker - Willem Roose.		**Erik Roelofsen**
11:40	Willem Roose, Professional Miller, will talk about the history of windmills internationally, attempts at generating electricity and his own experience of environmental noise.		
12:20	Lunch		
	Aspects of Source Noise - 2		**Frits van den Berg**
13:20	An investigation into the effect of wind shear on the sound emission of wind turbines		Ashtiani
13:40	Variations in measured noise emission of wind turbines due to local circumstances		van der Maarl
14:00	Vertical directivity observations based on statistics of low frequency tonal components measured at downwind and upwind locations.		Falourd
14:20	Wind turbine noise measurements in controlled conditions		Boorsma
14:40	Discussion		
15:05	Closing		
15:10	Conference Ends		