

Aircraft Noise and Aeroacoustics Research in the UK/EU 2016

Agenda – Postgraduate workshop, ÉCL, 2nd June 2016
Room: Amphi 1, Building: W1 (See Campus Map)

Title	Presenter	Time
REGISTRATION and REFRESHMENTS		9.30
WELCOME	<i>Dr. Aldo Rona</i>	9.50
SESSION 1 – Jet Noise (10.00 to 11.30)	Chair: Aldo Rona	
AeroTraNet 2: Project Overview	<i>Alessandro Mancini (Leicester)</i>	10.00
AeroTraNet 2: Large Eddy Simulation of Shock-Cell Noise for a Double-Flux Exhaust	<i>Carlos Pérez Arroyo (Cerfacs)</i>	10.15
AeroTraNet 2: Shock-Cell Noise Investigation on a Supersonic Coaxial Jet	<i>Daniel Guariglia (VKI)</i>	10.30
AeroTraNet 2: Uncertainty Quantification Methods and Application to Jet Flows	<i>Francisco J. Granados (Greenwich)</i>	10.45
Installed Jet Noise Prediction	<i>Benshuai Lyu (Cambridge)</i>	11.00
Jet instabilities and Noise Studies at ONERA DMAE	<i>Jean Philippe Brazier (ONERA)</i>	11.15
SESSION 2 – Turbomachinery and Propeller Noise (11:30 to 12:30)	Chair: Aldo Rona	
Sound Emission of Low-Pressure Axial Fans under Distorted Inflow Conditions	<i>Florian Zenger (Erlangen)</i>	11.30
A Rotating Rod Based Flow Control Technique for Noise Reduction of a Rod-Airfoil Configuration	<i>Leonidas Siozos Rousoulis (Brussels)</i>	11.45
Mitigation of Pusher-Propeller Installation Effects by Pylon Trailing-Edge Blowing	<i>Tomas Sinnige (Delft)</i>	12.00
Modeling the Open Rotor Acoustic Loading on Aircraft Fuselage	<i>Yves Detandt (Free Field Tech.)</i>	12.15
LUNCH (12.30-13.45)		12.30
TOUR OF ÉCL AEROACOUSTIC FACILITIES (13.45 to 14.30)		13.45
SESSION 3 – Airframe Noise (14.30-15.30)	Chair: Leandro de Santana	
Active Flow Control Methods for Aerofoil Noise Reduction	<i>Weam Elshahar (Bristol)</i>	14.30
Towards Understanding Aerofoils with Wavy Leading Edges Interacting with Vortical Disturbances	<i>Jacob Turner (ISVR)</i>	14.45
Innovative Leading Edge Geometries for Improved Leading Edge Noise Reductions	<i>Chaitanya Paruchuri (ISVR)</i>	15.00
Analysis of Landing Gear Noise During Approach	<i>Roberto Merino Martinez (Delft)</i>	15.15
COFFEE BREAK (15.30 to 16.00)		

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Agenda, continued

Title	Presenter	Time
SESSION 4 – Aeroacoustic Methods (16.00-16.30)	Chair: Constantin Sandu	
Acoustic Pressure Prediction of Supersonically Rotating Sources in a Subsonic Moving Medium	Zhongjie Huang (Brussels)	16.00
Efficient Azimuthal Mode Analysis using Compressed Sensing	Maximilian Behn (DLR)	16.15
SESSION 5 – Duct Acoustics and Liners (16.30 to 17.15)	Chair: Constantin Sandu	
On the Prediction of the Effect of Interstage Liners in Turbofan Engines	Ana Luisa Pereira Maldonado (ISVR)	16.30
Radial Mode Analysis of Ducted Sound Fields with Sensor Rakes and Wall Flush Sensor Arrays under Consideration of a Radial Flow Profile	Mirko Spitalny (DLR)	16.45
An Analytical Model for the Acoustic Impedance of Circular Holes of Finite Length	Dong Yang (Imperial)	17.00
CLOSE OF WORKSHOP		17.15

