


**The challenge of designing optimal multifunctional structures
– New opportunities for the European transport industry**

15-16 Sep. 2021, on-line from Vaulx-en-Velin (greater Lyon, France)

All CET times



Dates	15-sept-21		16-sept-21
Location	ON-LINE link to be sent once registered		ON-LINE link to be sent once registered
09:00 - 09:45	<i>Project board meeting</i>	08:30 - 10:30	Marine applications : Analytical and numerical modelling of soft media embedded with a lattice of resonant inclusions (incl. hands on exercise) Dr Gyani SHANKAR SHARMA, Univ. of New South Wales (AUS) 
10:30 - 11:00	Foreword by the N2N coordinator	10:30 - 11:00	Break
11:30 - 12:30	Aero applications : On the application of porous materials for aerodynamic and aeroacoustic purposes Prof. Mahdi AZARPEYVAND, Univ. of Bristol (UK)	11:00 - 12:30	Automotive applications : CAE NVH evolution for vehicle electrification and model order reduction Dr. Philippe MORDILLAT, Renault (FR)
12:30 - 14:00	Lunch break	12:30 - 14:00	Lunch break
14:00 - 15:30	Optimization approaches : Hyper Heuristics & other general methods Prof. Ender OZCAN & Andrew PARKES, Univ. of Nottingham (UK)	14:00 - 14:45	A. Sreekumar (ESR 1): Multiscale numerical modelling of poroelastic and composite structures
15:30 - 16:00	Break	14:45 - 15:30	Arasan U. (ESR 2) : Development of advanced vibroacoustic performance prediction tools for poroelastic sound packages coupled with complex composite structures
16:00 - 17:30	Optimization Theory and applications for noise and vibration performance Dr. Ming ZHOU & Tom GOODWIN, Altair (USA)	15:30 - 16:15	V. T. Ramamoorthy (ESR 3) : Heuristic and metaheuristic optimisation in the design of acoustic porous materials
		16:15 - 16:30	Closing word by the N2N coordinator

Free of charge upon prior registration at :

<https://forms.office.com/r/BEKKp1rmHR>

<http://no2noise.eu/>

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