51st UK Conference on Human Responses to Vibration Institute of Naval Medicine 14th to 15th September 2016 PROVISIONAL PROGRAMME

Wednesday 14 September 2016

11:00		Registratio	n		
12:00		Lunch			
13:45		Welcome to INM and opening of the conference			
14:15		Session 1: Seating: Testing			
	1	14:15	Whole body vibration – seat testing metrics	J N Smith	
	2	14:30	Pilot study of an exoskeleton for the lower limbs	R S Bridger	
	3	14:45	Predicting Seat Effective Amplitude Transmissibilities (SEAT values) with simple lumped parameter models and vertical mechanical shocks	G Patelli	
	4	15:00	Effect of lumbar support on vibration transmission of a car seat with occupant exposed to fore-and-aft whole-body vibration	H Zhou	
		15:15	Panel discussion		
15:30		Tea and ph	otograph		
16:15		Session 2:	Marine environment vibration		
	5	16:15	On the selection and real world effectiveness of shock seats for high speed craft	T E Coe	
	6	16:30	MOD risk reduction measures to counter the effect from maritime whole body vibration	R A Finnemo	
	7	16:45	Developing a holistic strategy for shock mitigation on fast boats	J Haynes	
	8	17:00	Human factors assessment of two commercial whole-body vibration mitigating maritime suspension seats	P J Pisula	
	9	17:15	Fatigue in military operations: high speed craft repeated shock and other factors	T Dobbins	
		17:30	Panel discussion		
17:45		Close of day 1			
18:30		Conference Dinner			

Thursday 15 September 2016

09:00		Session 3:	Whole-body vibration	
	10	09:00	Three degree of freedom model for the apparent mass of the seated human body exposed to vertical vibration	M Cavacece
	11	09:15	On the apparent mass of the human body sitting on a soft seat with vertical vibration	C Liu
	12	09:30	Effect of muscle activity on the apparent masses of the human body when exposed to vertical whole-body vibration	M Yang
	13	09:45	Rate of growth of vibration discomfort with increasing magnitude of fore-and-aft, lateral, and vertical whole-body vibration in the frequency range 1 to 10 Hz	J J Arnold
	14	10:00	Finite element optimisation techniques applied to human vertebral cancellous bone	T Shanker
		10:15	Panel discussion	
10:30		Coffee		
11:00		Session 4:	Measurement and assessment	

16 11:15 Passive emerger 17 11:30 Optimise excitation	response to vibration in armoured fighting vehicles: sources, eristics and effects iscussion	N Mansfield P Fernández J Lin M Weaver
17 11:30 emerger 17 11:30 Optimis: excitation Human character 12:00 Panel di	ncy vehicles ation of the rear drive unit bushings of a lightweight vehicle under shock on response to vibration in armoured fighting vehicles: sources, eristics and effects iscussion ions	J Lin
17 11:30 excitation Human characte 12:00 Panel di	on response to vibration in armoured fighting vehicles: sources, eristics and effects iscussion ions	
12:00 Panel di	iscussion ions	M Weaver
	ions	
12:15 Sponsor presentati		
Procentus	re HRV conferences	
12:30 Discussion of futur		
12:45 Lunch		
14:00 Session 5: Hand-a	rm vibration: measurement	
19 14:00 Vibration	n emission values and risk assessment	S Hewitt
20 14:15 HSE up	date on hand-arm vibration	P Delderfield
	f charge and elevation on accelerations measured on a 60-mm mortar during firing	M J Howell
22 14:45 The effe	ect of firing posture on hand-transmitted vibration from small arms recoil	S J Welch
15:00 Panel di	iscussion	
15:15 Tea		
15:45 Session 6: Hand-a		
to vibrat	mage processing of hypothenar hammer syndrome in workers exposed ting tools	G Aghilone
	neural components of the hand-arm vibration syndrome: a comparison tandarized tests to assist diagnosis	Y Ye
25 16:15 The dev	relopment of a new physical model of a finger for assessing transmitted as	A Almagirby
26 16:30 Limitation	ons of vibrotactile thresholds	S R Mills
16:45 Panel di	iscussion	
17:00 Close of conference	ee	