TIMETABLE and MENU Third DSTO International Conference on Health & Usage Monitoring – HUMS2003

Tuesday 11<sup>th</sup> February, 2003 to Friday 14<sup>th</sup> February, 2003

### Avalon Airfield, near Geelong,

### Trade Entry to Australian International Airshow

## Friday 14<sup>th</sup> February, 2003 Avalon Airfield, near Geelong

From:	To:	
09:30	10:30	HUMS Demonstration Session*
10:30	11:00	Coffee

\* Attendance at the Demonstration must be pre-booked and is subject to a limit. Follow Signs to the Conference Centre, Conference Room1, Adjacent to Hall B North Note that this is next to Airshow Headquarters (info centre) and the Media Centre. **Please aim to be on time; 9:30 is the commence time not arrive time.** 

Sunday 16<sup>th</sup> February, 2003– Duxton Hotel – 328 Flinders Street Melbourne

From:	To:	
18:30	19:30	Collect Badge
20:00	22:30	Cocktail Reception

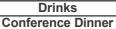
Proceedings of this conference were pre-published as DSTO-GD-0348. This website has this document at two resolutions, called <u>Screen</u> and <u>Print</u>. Papers listed with numbers beginning with 4 are in this document. Papers are also available separately by clicking on the paper in the <u>MENU</u>.



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### TIMETABLE and MENU Third DSTO International Conference on Health & Usage Monitoring - HUMS2003

	Unday	The Fordary, 2005 - Duxton Hoter				
From:	To:					
8:30	9:00	Regist	ration			
9:00	9:15	Official Welcome: Air CDRE	N Schmidt – DGTA-ADF			
9:15		4-12. Andy Evans (United Kingdom Civil Aviation Authority)				
	9:55	Managing a Successful HUMS Operation				
9:55		4-1. Ken Pipe (HUMAWARE)				
	10:25	Measuring the Performance of a HUM System - the Features that Count				
10:25	10:50	Morning T				
10:50			5-14. H. Silverman (RSL Electronics)			
	11:30	RSL's AH64 T-HUMS - The HUMS that does the Jol				
11:30			5-6. SQNLDR Paul Parolo (ADF DGTA)			
	12:00	Certification of Engine Health & Usage Monitoring Systems on Military Airc				
12:00		Panel A: "Testing Requirements for a Gene				
	12:30	speakers will discuss and answ				
12:30	13:45	Lunch (ir				
		Duxton B	Duxton A			
13:45		4-4. C.S. Byington et al (Impact Tech)	4-9. Lt Cdr Jon Milsom RN (RAF			
		and Robab Safa-Bakhsh (Boeing)	Wyton), Nick Toulas and Phil Irving			
		Metrics Evaluation and Tool	(Cranfield University) A Study of Usage			
		Development for Health& Usage	Variability and Failure Probability in a			
	14:25	Monitoring System Technology	Military Helicopter			
14:25		5-3. François Cantegreil (SEMIA Fr)	5-4. L. Molent (DSTO Australia)			
		Engine Vibration Control: a step by	Considering the Role of Health Mon in			
	14:55	step way to HUMS	Fixed Wing Aircraft HUMS			
14:55		5-7. Graham F. Forsyth and Eric CJ Lee	4-3. Stephen Moore et al (ADFA)			
		(DSTO Australia) HUMSSAVE 4 - An	Model Updating and Determination of			
		Upgraded Econometric Model for	Structural Dynamic Behaviour in the			
	15:25	Cost/Benefit Studies of HUMS	Presence of a 2nd Source of Excitation			
15:25	15:55	Afternoon Tea Break				
15:55		C 5-5. Mick Richmond (Australian	5-9. Paul Samuel (Alfred Gessow			
		Army, Rotary Wing A/c Maint. School)	Rotorcraft Centre) A			
		Training Techniques and	Planetary Gearbox Diagnostic Tech using			
	16:25	Methodologies for Heliconter RT&B	Constrained Adaptive Lifting			
16:25		5-16. Mal Davies (Helitune Ltd)	4-7. Wenyi Wang (DSTO Au)			
		Keeping Track of the Future	Damage Detection of Gas Turbine Eng by			
10 ==	16:55		Analysing Blade Tip Timing Data			
16:55		4-2. Anthony Woolley (DSTO Au)	5-10. David Blunt & David Forrester			
		<b>Collins Class Submarine Systems</b>	(DSTO Au) Analysis of Epicyclic			
	17:25	Analysis through Data Mining	Gearbox Vibration			
18:30	19:30	Drinks				





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#### TIMETABLE and MENU

#### Third DSTO International Conference on Health & Usage Monitoring - HUMS2003

# Tuesday 18th February, 2003– DuxtonHotel – 328 Flinders Street Melbourne

From:	To:	<b>y</b> 10 1051001 <b>y</b> ; 2000 Buxtonnot				
9:00	9:15	Reg	Choir Registration			
9:15	0.10	Chair: Registration   TBA 4-8. Alan Draper and Cdr James Gourlay RN (MOD United Kingdom)   The Operational Benefits of Health& Usage Monitoring Systems in UK Military				
	9:55	Helicopters				
9:55		5-15. Errol Farr (Smiths Aerospace)				
		Maintenance An	alysis, Safety and Training (MAST) Program) A			
	10:25	Comprehensive Application of Digital Flight Data				
10:25	10:50	Morning Tea Break				
10:50		5.0 Derit Harris (HC Name NCMC) & Transa Balan (HC Americ AATD)				
			lealth and Usage Monitoring System (JAHUMS)			
	11:30		pt Technology Demonstration (ACTD) Program			
11:30			1 McFalls (US Army) & David Largess(COBRO)			
	12:00		U.S. Army Lead The Fleet Usage Analysis			
12:00		Panel B: "What Needs to be done to ma	ke HUMS better", panel TBA – a panel of 4			
	12:30		answer questions on this topic.			
12:30	13:45		(included)			
		Duxton B	Duxton A			
13:45		5-13. S Galea, A Wilson, C Scala & A	5-1. Adam Forsyth (VAMtec - GPS			
		Wong (DSTO) Smart Structures &	Online)			
	14:25	Materials: A DSTO Key Initiative	vHUMS System Architecture			
14:25		4-10. Richard Fielding & Aaron Mc				
		Nelis (ACRA Control)	5-2. Keith Mowbray (VAMtec -Dytecna)			
		Applying Rules for Isochronous	vHUMS Applications in the UK			
		Sampling Within Acquisition Cycles				
	14:55	to Airborne DAS				
14:55		4-11. P. N. Trathen and B. R. W.	4-5. Thomas Stadterman, Alan Peltz et al			
		Hinton (DSTO Australia)	Physics of Failure-based Approach			
		A Sensor for Monitoring Corrosive	Part 1 - Life-consumption Monitoring			
	15:25	Environments on Military Aircraft	for Military Vehicles			
15:25	15:55	Afternoon Tea Break				
15:55		Chair: 5-12. Dr. Balázs Bagó & Wolfgang	Chair: 4-6. Roger Harris (UK DSTL) and Ian			
		Isermann (HEIM Systems) <i>High</i>	McNee (QinetiQ)			
		Precision and Bandwidth	Physics of Failure - Part 2 - Sensors used for			
40.05	16:25	Efficient Data Recording Format	Terrain & Vibration Severity Mon			
16:25		6-1. R.B. Randall (UNSW) & J. Antoni	5-11. Peter W. House (Ultra)			
		(UT Compiegne, Fr) A New Efficient Technique for Separating Gear and	Use of Conductance Measurement for			
	16:55	Bearing Signals In Helicopter Gearbox Diag	Battery Health Monitoring			
16:55	17:15	CLOSING				
10.00	17.15	CLOSING				

Numbers before papers are Chapters in Proceedings. Chapter 4-xis a full paper; 5-x abstract only, 6.xis new.



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