

HUMS Conferences General Index

DSTO Workshop on Health and Usage Monitoring Systems		
WS1999	General Information	Info
1	Integrated Mechanical Diagnostics (IMD) Health Usage & Management System (HUMS)	
WS1999	John Gill (BFGoodrich) Rick Muldoon (USNavy) + slides @ 0197P2-19s	0197-7
2	Introduction of HUMS into the RAF	
WS1999	David Horsley (RAF UK)	0197P2-35s
3	Modular Distributed HUMS – an Overview	
WS1999	Keith Mowbray (Helitune Ultra Electronics, UK)	0197-17s
4	UK Ministry of Defence Health and Usage Monitoring System (HUMS)	
WS1999	Charles Trammel, Gerald Vossler (Smiths Industries)	0197-23s
5	EUROCOPTER H.U.M.S The Helicopter Manufacturer commitments	
WS1999	Pierre Feraud, Phillipe Lubrano (Eurocopter, France)	0197P2-51s
6	Developments in Non-Intrusive Diagnostics for Engine Condition Monitoring	
WS1999	JW Bird, MF Mulligan. JD McLeod (NRCCanada) Capt D Little (Canada ND)	0197-203
7	Health Monitoring of Helicopters - Applications and Achievements	
WS1999	Lawrence L (Larry) Dobrin (Chadwick-Helmuth, USA)	0197-43
8	Vibration Monitoring of Royal Australian Navy Helicopters	
WS1999	David Blunt, Brian Rebbechi (DSTO) Peter O'Neill (RAN-NALMS)	0197-49
9	Health and Usage Monitoring System for the HAWK Aircraft	
WS1999	MC Havinga, CJ (Nelis) Botes (AMS, South Africa)	0197-217
10	HH-60G Mission Usage Spectrum Survey - Methodology Overview	
WS1999	Charles (Charlie) Crawford (GeorgiaTech)	0197-57s
11	An Econometric Model for HUMS Cost Benefit Studies	
WS1999	Graham F Forsyth (DSTO)	0197-75s
12	Machine Dynamics	
WS1999	Brian Rebbechi, Albert Wong (DSTO)	0197P2-63s
13	Gear Noise and Vibration - Research at National Gear Technology Centre	
WS1999	Jarek Rosinski (Gear Tech. Centre UK)	0197P2-75s
14	ROTABS™ Re-Writing the Manual on Rotor Track and Balance	
WS1999	Robert Cant (Vibro-Meter UK)	0197-89s
15	Detection of Bearing Faults in Helicopter Gearboxes	
WS1999	Y. Gao, R. B. Randall (The University of NSW, DSTO CEVA)	0197-89s
16	LASERNET Machinery Monitoring Technology	
WS1999	John Reintjes (USNavy)	0197-113s
17	A Straw Man for the Integration of Vibration and Oil Debris Technologies	
WS1999	Paul L. Howard (PLHoward Enterprises), John Reintjes (USNavy)	0197-131

HUMS Conferences General Index

18	Research into Sensitivity of Electric Chip Detectors (ECDs), as Installed in ADF Black	
WS1999	Grier McVea (DSTO)	0197P2-97s
19	Health and Usage Monitoring System for the Denel Rooivalk Combat Support Helicopter	
WS1999	CJ (Nelis) Botes (AMS South Africa)	0197P2-103
20	SH-60 Helicopter Integrated Diagnostic System (HIDS) Program Experience and Results of	
WS1999	Andrew J. Hess, Bill Hardman (USNavy)	0197-181
21	Lubrication Oil Debris Monitoring Program at AMRL	
WS1999	Ben Parmington (DSTO)	0197P2-115s
22	Helicopter Structural Usage Monitoring Work at DSTO Airframes and Engines Division	
WS1999	DC (Dom) Lombardo (DSTO)	0197-137s
23	Fatigue Usage Monitoring in UK Military Helicopters	
WS1999	Alan Draper (UK MOD)	0197-153
24	Helicopter Usage Monitoring Using the MaxLife System	
WS1999	David White (Aerostructures USA) +extra slides 0197P2-123s	0197-167s
25	Engine Gas Path Condition Assessment	
WS1999	Peter Frith (DSTO)	0197P2-125s
2001	Second DSTO International Conference on Health & Usage Monitoring Systems	
2001	General Information	Info
26	Smiths Industries Generic Health and Usage Monitoring System (GenHUMS) - A Modular	
2001	Charles Trammel, Smiths Industries Aerospace	5-02
27	The Other Added Value of HUMS	
2001	Hanan Silverman, Marcia Shamo (RSL Electronics Israel)	5-08
28	Implementing HUMS in the Military Operational Environment	
2001	M Augustin (Bell USA), A Heather (Smiths), Harley Rogers (Canadian DF)	5-04s
29	Distributed Modular HUMS	
2001	Keith Mowbray (Helitune Ltd UK)	0262-33
30	PANEL: The Future of HUMS - the scene 10 years hence	
2001	Mike Augustin, Dewi Thomas (RAF), Keith Mowbray; Richard Healing, etc	Unavailable
31	An Affordable Modular HUMS Certification Program in an EMS Helicopter	
2001	Rodney C Wainwright (WTI Aeronautics, USA)	5-01s
32	Certification of Engine Usage Monitoring Systems	
2001	SQNLDR Robert A Matchett (RAAF)	5-09
33	Advanced Knowledge Management for Helicopter HUMS	
2001	R Hamza, S Menon (Honeywell), S McRoberts (Chadwick-Helmuth)	5-06
34	Comprehensive HUMS (CHUMS)	
2001	Richard Healing, Director, US Navy Office of Safety and Survivability	Unavailable

HUMS Conferences General Index

35	Static Balancing Rotor Blades to Maintain Interchangeability and Facilitate Rapid Track	
2001	Norman L Beachum (Avion, USA)	0262-23
36	Vibration-Based Helicopter Gearbox Health Monitoring - An Overview of the Research	
2001	AK Wong (DSTO)	5-14
37	A Review of Permanently Installed Helicopter Gearbox Vibration Monitoring Systems in the	
2001	Andrew Becker, David Blunt, David Forrester (DSTO)	5-07
38	Simulation of Vibration Signals from a Rolling Element Bearing Defect	
2001	N S Feng, E J Hahn, RB Randall (University of NSW)	0262-37
39	Engine Vibration Control for HUMS	
2001	Francois Cantegreil (SEMIA, France)	Unavailable
40	Model-Based Decision Support Tools for T700 Engine Health Monitoring	
2001	Peter Frith, George Karvounis (DSTO)	5-12
41	The US Navy/BFGoodrich Integrated Mechanical Diagnostics COSSI Program - an Update	
2001	A Duke (BFGoodrich), M E Bailer, Paul Thitchener, U Gebauer (USNavy)	5-16-2
42	Surveillance of System	
2001	Patrice Samon (Eurocopter)	Unavailable
43	Project AIR87: Armed Reconnaissance Helicopter HUMS Requirements	
2001	CAPT M Millar and MAJ P Harris, Project AIR87 Office	Unavailable
44	Vibration and Usage Monitoring System for the Kaman SH-2G(A) Helicopter	
2001	Polis Vrionides, Amy Curtin (Kaman USA)	0262-79
45	PANEL: Perceived problems with HUMS implementations	
2001	Chuck Trammel, CAPT England, CMDR Chris Fealy (ADF), Patrice Samon	Unavailable
46	Structural In-Service Monitoring of Advanced Combat Aircraft: Operational Benefits	
2001	Xavier Labourdette (Dassault, France)	5-05s
47	Potential HUMS Benefits from the S-70A-9 Black Hawk Flight Loads Survey	
2001	R Boykett (DSTO), C Crawford (GTRI), Dr Tom Christian (USAF)	Unavailable
48	Smart Structures Technologies for Structural Health Monitoring	
2001	SC Galea, N Rajic, I G Powlesland, S Moss, M Konak, S Van der Velden, A A Baker (DSTO) I McKenzie, YL Koh, WK Chiu, (COE.SM)	Unavailable
49	Specifications for an Unified Strain and Flight Parameter Based Aircraft Fatigue Usage	
2001	L Molent and S Inan (DSTO)	0262-53
50	USN Development Strategy, Fault Testing Results, and Future Plans for Diagnostics,	
2001	W Hardman, Andrew Hess, Rebecca Ahne (USNavy), David Blunt (DSTO)	0262-69
51	The Development of an Expert System for Wear Debris Analysis	
2001	Zhongxiano Peng, S Goodwin (James Cook Uni)	0262-5s
52	Application of LaserNet Fines to Mechanical Wear and Hydraulic Monitoring	
2001	J Reintjes, JE Tucker, AV Schultz, LL Tankersley (USNavy), C Lu (Towson Uni), PL Howard (PLH Enterprises), T Sebok, C Holloway (Lockheed Martin)	0262-13

HUMS Conferences General Index

53	Using Econometric Modelling to Determine and Demonstrate HUMS Affordability	
2001	Graham F Forsyth, Scott A Dutton (DSTO)	5-13
54	Diagnostic Sensor Fusion Test Program and Results	
2001	Dr John Reintjes, Dr John Tucker (NRL), Paul L Howard (PLH Enterprises), Dr Brian Roylance, Dr Trevor Sperring, Dan Price (Swansea Uni)	Unavailable
	Third DSTO International Conference on Health & Usage Monitoring Systems	
2003	General Information	Info
55	Managing a Successful HUMS Operation	
2003	Andy J. Evans (UK CAA)	4-12
56	Measuring the Performance of a HUM System - the Features that Count	
2003	Kenneth Pipe (Humaware UK)	4-01
57	AH64 T-HUMS – A HUMS Solution That Does the Job	
2003	Hanan Silverman (RSL Electronics - Israel)	5-14s
58	Certification of Engine HUMS on Military Aircraft	
2003	Paul R. Parolo (DGTA)	5-06
59	PANEL: Testing Requirements for a Generic HUMS	
2003	4 Panel members	Unavailable
60	Metrics Evaluation & Tool Development for Health & Usage Monitoring SystemTechnology	
2003	Carl S. Byington, Matthew Watson, Patrick Kalgren (Impact Tech USA), Robab Safa-Bakhsh (Boeing USA)	4-04
61	HUMS: an Economical Approach	
2003	François Cantegreil (SEMIA – France)	5-03s
62	HUMSSAVE 4 - An Upgraded Econometric Model for Cost/Benefit Studies of HUMS	
2003	Eric CJ Lee, Graham F Forsyth (DSTO)	5-07
63	Training Techniques and Methodologies for Helicopter Rotor Track and Balance	
2003	Mick Richmond (Australian Army)	5-05s
64	Keeping Track of the Future	
2003	Mal Davies (Helitune – UK)	Unavailable
65	Collins Class Submarine Systems Analysis through Data Mining	
2003	Anthony Woolley (DSTO)	4-02
66	A Study of Usage Variability and Failure Probability in a Military Helicopter	
2003	LTCDR Jon Milsom (RN), Nick Toulas, Phil Irving (Cranfield Uni – UK)	4-09
67	Considering the Role of Health Monitoring in Fixed Wing Airframe HUMS	
2003	L. Molent (DSTO)	5-04
68	Model Updating and Determination of Structural Dynamic Properties in the Presence of a	
2003	Stephen Moore, Zhang Biaobiao, Joseph Lai, Krishna Shankar (ADFA)	4-03
69	A Planetary Gearbox Diagnostic Technique using Constrained Adaptive Lifting	
2003	Paul Samuel, Darryll Pines (University of Maryland - USA)	5-09

HUMS Conferences General Index

70	Damage Detection Of Gas Turbine Engines By Analysing Blade Tip Timing Data	
2003	Wenyi Wang (DSTO)	4-07
71	Analysis of Epicyclic Gearbox Vibration	
2003	David Forrester, David Blunt (DSTO)	5-10
72	The Operational Benefits of Health and Usage Monitoring Systems in UK Military	
2003	Alan Draper, CDR James Gourlay RN (MOD UK)	4-08
73	Maintenance, Analysis, Safety & Training (MAST) Comprehensive Use of Digital Flight Data	
2003	Errol Farr (Smiths – UK & USA)	5-15s
74	Joint Advanced Health and Usage Monitoring System (JAHUMS) – Advanced Concept	
2003	David J. Haas (USNavy), Treven Baker (US Army)	5-08s
75	US Army Lead the Fleet Usage Analysis	
2003	David White, David Largess (Westar Corp), Michael McFalls (US Army)	4-13
76	PANEL: What Needs to be done to make HUMS better	
2003	4 Panel members	Unavailable
77	Smart Structures and Materials: A DSTO Key Initiative	
2003	Alan Wilson, Christine Scala, Steve Galea, Albert Wong (DSTO)	5-13s
78	Applying Rules For Isochronous Sampling Within Acquisition Cycles To Airborne Data	
2003	Richard Fielding, Aaron Mc Nelis (ACRA Control – Ireland)	4-10
79	A Sensor for Monitoring Corrosive Environments on Military Aircraft	
2003	P N Trathen, B R W Hinton (DSTO)	4-11
80	High Precision and Bandwidth Efficient Data Recording Format	
2003	Dr Balázs Bagó, Wolfgang Isermann (Heim-Systems – Germany)	5-12
81	A New Efficient Technique for Separating Gear and Bearing Signals in Helicopter Gearbox	
2003	R B Randall (Uni of NSW), J Antoni (U. Technologie de Compiègne France)	6-01s
82	vHUMS System Architecture	
2003	Adam Forsyth (VAMtec + GPS Online – Aust)	5-01s
83	VHUMS Applications in UK	
2003	Keith Mowbray (VAMtec + Dytechna - UK)	5-02s
84	Physics of Failure-Based Approach to Life-Consumption Monitoring For Military Vehicles:	
2003	T J Stadterman, A Peltz, W Connon (US Army), R Harris (DSTL UK), I McNee (QinetiQ), K K Choi (Uni Iowa), J Freeman (Uni Tennessee)	4-05
85	Physics Of Failure Approach To Life Consumption Monitoring For Military Vehicles Part 2	
2003	Roger Harris (DSTL UK), Ian McNee (QinetiQ)	4-06
86	The Use of Conductance Measurement for Battery Health Monitoring	
2003	Peter House (Ultra Electronics UK)	5-11
2005	Fourth DSTO International Conference on Health & Usage Monitoring Systems	
2005	General Information	info

HUMS Conferences General Index

87	Experiences of using HUMS in UK Military Helicopters	112
2005	P Rushworth, G Clark, J G Cook (MOD UK)	
88	HUMS in the era of CAA, JAA, EASA and ICAO	113s
2005	John McColl (CAA UK)	
89	Swashplate Bearing Monitoring with US Army and US Army National Guard VMEP	133s
2005	Jonathan A. Keller (US Army)	
90	Benefits of Usage Monitoring and T&E in Fleet Management of US Army Helicopters	134s
2005	David White (Spectra – USA), Muchael Brauss (Proto – Canada)	
91	Panel: Trends in HUMS – The Next 5 Years	Unavailable
2005	John McColl, Hanan Silverman, Dr Sam Crews, Patrick O'Hara	
92	VHUMS – Health and Usage Monitoring of Man and Machine	136s
2005	Robert Angel (GPS Online)	
93	Stress Memory Technology and Military Bridging Applications	137s
2005	Matthew Knight (DSTL UK), David Crane (Qinetiq UK)	
94	T-HUMS – AH-64 Lead The Fleet Summary and a Glimpse at Hermes-450 MT-HUMS	151s
2005	Hanan Silverman (RSL Electronics – Israel)	
95	Bristow Helicopters and HUMS	152s
2005	Andy Evans (Bristow UK)	
96	Data Formats: IRIG-107, DATaRec-3, IRIG-106 Chapter10	153
2005	Balázs Bagó (Heim Systems - Germany)	
97	On-Board Vehicle Usage Monitoring and Prognostics System	154s
2005	Alan Peltz (US Army)	
98	C-130J-30 In-Flight Propeller Balancing	172
2005	Brian Rebbechi, P R Marsden, K W Vaughan (DSTO)	
99	FDR's as HUMS: A Report on Data Issues, Including the Accuracy of Manually Entered Data	173
2005	Chris G Knight (DSTO)	
100	New Technology for Implementing Condition Based Maintenance Plus	174
2005	T R Galie (USNavy), D Morris, J Ozols (ManTech USA) P L Howard (USA)	
101	PANTHER (CLV) HUMS – a Generic Flexible Approach	175
2005	Andrew Hughes (Syen UK)	
102	Battery Monitoring and Its Implementation in a Land Vehicle HUMS	176
2005	Peter W House (Ultra Electronics UK)	
103	HUMS – A Strategic Performance Management Perspective (The More You Know - The	Unavailable
2005	Alex Caldwell (Motec)	
104	Case for XML as the Format for Long-term Storage of HUMS Data	201
2005	Graham F Forsyth (DSTO)	
105	A Health Assessment of Lubricating Oil in Two Australian Army CH-47D Helicopters	202
2005	Andrew Becker, Paul Rawson (DSTO)	

HUMS Conferences General Index

106	Technology Aspects of the Tiger ARH	
2005	LTCOL Andrew Jones (Australian Army Aviation)	Unavailable
107	Micro Usage Monitoring Systems	
2005	Stephen North, Michael Foster, Christopher Latham (Oxley Group Aust.)	205
108	Engine Monitoring System Groundstation Demonstrations	
2005	Niel Marais (AMS South Africa)	Unavailable
109	NH90 Briefing	
2005	Hervé Moray (Eurocopter)	Unavailable
110	Achieving Valuable Outcomes through Effective Collection and Use of Aircraft Structural	
2005	G M Ricketts, M I Houston, Juergen Moews (Aerostructures Aust)	312
111	A Programmatic Approach to Aircraft Health Monitoring	
2005	Amy Bubon (Honeywell), Frank Eason (USNavy), Ken Todd (Diag. Soln US)	313
112	The validation of HUMS engine data	
2005	Joanna Kappas (DSTO)	333
113	COTS Approach to Dynamic Flight Data Acquisition for HUMS/OLM Applications	
2005	Richard H J Fielding (Acra Control – Ireland)	334
114	Panel: Data Management – the HUMS Achilles Heel?	
2005	Graham Forsyth, Robab Safa-Bakhsh, Andy Evans, Steve Boakes	Unavailable
115	The Development of a Comprehensive Machine Condition Monitoring Program	
2005	Stephan Ebersbach, Zhongxiao Peng (James Cook University)	336
116	Detection of Structural Damage by Statistical Examination of Strain Distribution	
2005	Henry C H Li, A P Mouritz (RMIT), I Herszberg (CRC Adv, Composite Struct)	337
117	From Acquisition to Action – Ground Vehicle HUMS Data	
2005	Clive Mott (nCode UK)	350
118	Vehicle Health Management in Network Centric Operations	
2005	Steve Boakes (Smiths)	Unavailable
119	Better Product Life Better Product Life Cycle Management Cycle Management Using	
2005	Peter Watson (Altair Avionics USA)	352s
120	Structural Health Monitoring Applications for In Service Military Airframes using CVM	
2005	Mike R Lindroos (Structural Monitoring Systems)	353s
121	Rotorcraft Health Management System (RHMS)	
2005	Robab Safa-Bakhsh (Boeing USA), Dmitry Cherkassky (Dovetail Concepts)	371
122	P-3/S-3 Individual Aircraft Tracking Methodology	
2005	S Saunders, Amy Carlin, A Bradbury (Lockheed Martin), Nam Phan (USNavy)	372

HUMS Conferences General Index

123	Method To Compare Autocorrelation Analysis Results Obtained Using SmartHUMS Unit	
2005	Eric C J Lee, G F Forsyth (DSTO), C Bil (RMIT)	374
124	The Development of a Quantitative Method for the Assessment of Abrasive and Corrosive	
2005	Zhongxiao Peng, J Brown (James Cook University)	375
	Fifth DSTO International Conference on Health & Usage Monitoring Systems	
2007	General Information	info
125	Benefits and Pitfalls of Health Usage Monitoring Systems and Development of UK MOD	
2007	P Rushworth, J G Cook, G Clark, A Dallman (MOD UK)	101
126	The Path to Condition Based Maintenance	
2007	John Berry, Samuel T Crews (US Army)	102
127	Safe and Economic Management of Widespread Fatigue Damage (WFD) Using	
2007	Stephen Hall (Celeris Canada) Mark Vellacott (SMS Systems)	103
128	Programmatic and Technical PHM Development Challenges in Forward Fit Applications	
2007	Carl Byington, M J Roemer (Impact Tek), Andrew J Hess (Comcast) (USA)	104
129	Expanding Applications, Data Management Technologies and Benefits of HUMS	
2007	Steve Boakes (Smiths UK)	105
130	HUMS Long-Term Data Management	
2007	Graham Forsyth (DSTO)	106
131	Condition Based Maintenance Analysis of Royal Malaysian Air Force F/A 18D Aircraft	
2007	Assanah Mydin (Caldmark Malaysia)	Unavailable
132	Engine Performance Trending	
2007	Dinkar Mylaraswamy, Lewis Olson, Emmanuel Nwadiogbu, (Honeywell USA)	108
133	CBM Panel Session	
2007	Not Available	Unavailable
134	Certification of Engine HUMS in the Australian Defence Force	
2007	David R Hood (DGTA)	110
135	Controlled Service Introduction of a Small Rotor Adjustment Policy on a HUMS Equipped	
2007	Scott Bradley, Terry Murphy (DND – Canada)	111
136	RAAF P-3C Fatigue Tracking System to Support Safety by Inspection Program	
2007	Shaibatul H Macci (Aerostructures), Emilio Matricciani; (DSTO)	112
137	Health and Usage Monitoring for Space Applications: Drilling Automation for Mars	
2007	S Hanagud, S Statham, M Ruzzene (Georgia IT), B Glass, H Cannon (NASA)	113
138	Investigation, of Near Infrared FBG, sensors for Monitoring, Structural Response of 0/90	
2007	Jayantha Epaarachchi, R E Clegg (C Qld Uni), John Canning (Uni Sydney)	114
139	United States Federal Aviation Administration Health and Usage Monitoring System R&D	
2007	D D Le, E G Cuevas (FAA USA)	201

HUMS Conferences General Index

140	Overview of Helicopter HUMS Research in DSTO Air Vehicles Division	
2007	Ken Anderson (DSTO)	202
141	Power Train Diagnostics Research in DSTO Air Vehicles Division	
2007	David Forrester (DSTO)	Unavailable
142	Helicopter Structural Integrity at DSTO-Air Vehicles Division	
2007	Domenico Lombardo (DSTO)	204
143	HUMS Cost-Benefit and Certification Activities in DSTO Air Vehicles Division	
2007	Graham Forsyth (DSTO)	205
144	Panel: Key Aspects of HUMS Requiring Further Research	
2007	Not Available	Unavailable
145	End to End HUMS Data Management on Land Systems	
2007	Andy Hughes (Syen – UK)	207
146	Aspects of the Practical Implementation of HUMS on Land Platforms	
2007	Peter W. House (Ultra Electronics – UK)	208
147	A Novel Technique of Crack Detection for Helicopter Main Gearbox Planet Carrier	
2007	Wenyi Wang (DSTO), Jonathan A. Keller (US Army)	209
148	Helicopter Loads Synthesis using a Neural Network	
2007	C. Cheung (NRCCanada), L. Krake (DSTO)	210
149	Improving Diagnostic Isolation in Drivetrain Components: A Swashplate Bearing Example	
2007	Carl S. Byington, Matthew Smith, Patrick Kalgren (Impact Tech USA)	211
150	Generic Economic Benefits Model for ADF B-Vehicles HUMS	
2007	E C J Lee (DSTO)	212
151	Corrosion and corrosivity monitoring system	
2007	Paul Dietrich, Russ Braunling (Honeywell – USA)	213
152	Strategies for Wireless Intelligent Sensing Devices (WISDs)	
2007	N A J Lieven, PJ Escamilla Ambrosio, S Burrow, L Clare (Bristol U – UK)	214
153	Integration of Vibration and Oil Analysis for Condition Monitoring of Helicopter Main Rotor	
2007	Muhamad Murrad (Universiti Teknologi Malaysia)	215
154	Application of cyclostationary analysis in detecting early faults of helicopter gearboxes	
2007	Z.S. Chen (SINA), Y M Yang, Z Hu (Nat Uni Defense Tech - China)	216
155	Parametric Data Processing for Health and Usage Monitoring Systems	
2007	Tran Bang (Eurocopter - France)	217
156	Predicting Performance Based Availability in Small-Scale Operations	
2007	Hjalmar Staaf (BAE Systems Bofors – Sweden)	301s
157	Demonstration of Battery Monitoring System	
2007	Richard Parker, Peter House (Ultra Electrics – UK)	Unavailable
2009	Sixth DSTO International Conference on Health & Usage Monitoring Systems	
2009	General Information	info

HUMS Conferences General Index

158	Getting the Right Things Done In Developing Enterprise Health Management Systems	
2009	T Dabney, R Vodicka (JSF Program Office USA)	101
159	An introduction to Condition Based Maintenance using reliability assessment methods	
2009	P L Maisonneuve, P Lyonnet, M Glade, S Ghelam, E Mermoz (Eurocopter or Ecole NISE – France)	102
160	Reading the Tea Leaves: Considerations for the Analysis of Aircraft Oil Filter Element	
2009	Andrew Becker (DSTO) Andrew Bessell (RAAF) Nathan Carins (P&WC)	103
161	Fusion Prognostics	
2009	Rubyca Jaai (City Uni Hong Kong), Michael Pecht (CALCE – USA)	104
162	Super Hornet Usage Monitoring	
2009	Paul Parolo (ASHPO)	Unavailable
163	Characterization of Rotorcraft Recorded Maneuver/Regime Usage Variability	
2009	Suresh Moon (L3 Communications), Nam Phan (USNavy) USA	106
164	Development of a Flight Manoeuvre Recognition Program Using the S-70A-9 Black Hawk	
2009	Aaron R. James, Christopher Dore (DSTO)	107
165	Advanced HUMS Capabilities for Helicopter Operations	
2009	Brian Larder, Rob Callan, Steve Boakes (GE Aviation Systems – UK)	108
166	Advances in RTB Data Analysis	
2009	Richard Hunt (Helitune Ltd UK)	Unavailable
167	A Description of the Health and Usage Monitoring System on the MRH 90 Helicopter	
2009	James Fay (Australian Aerospace)	110
168	Roadmap for Helicopter Life Usage Monitoring	
2009	Catherine Cheung, Nicholas C Bellinger (NRCCanada)	111
169	Architecture for Dynamic Component Life Tracking in an Advanced HUMS, RFID, and	
2009	N Iyyer, S Bradfield, S Sarkar, C McColl, D Algera (TDA Inc) E Flores, N Phan (USNavy)	112
170	The Assessment of Fatigue-Life Resources of the PZL-130 Orlik's Structure	
2009	Andrzej Leski, Slawomir Klimaszewski, Marcin Curdles (AFIT – Poland)	113
171	HISDES: a shared multinational Helicopter Intergrated Supportability Data Exchange	
2009	A.A. (Lex) Ten Have, NLR, The Netherlands	Unavailable
172	Open-Source Development of an Automated Maintenance Environment (AME) for Lower	
2009	S Maley, M Stonebraker, Joe Schmidley (USNavy), Michael Lasiter (SAIC)	115
173	The language of FMEA: on the effective use and reuse of FMEA data	
2009	S D Rudov-Clark, J Stecki (PHM Technology)	116
174	WISD - Wireless Intelligent Sensing Devices	
2009	G A Lester, W Heggie (AgustaWestland) S G Burrow, L R Clare, P Bunniss, X Liu, P J Escamilla-Ambrosio, N Lieven (Bristol Uni) R Hazelden C Benson (TRW) P Cooper (SEA) UK	117

HUMS Conferences General Index

175	Integrating Model-based Shaft Coupling Prognostics with Vibration Diagnostic Features J Sheldon M Watson C Byington G Swerdon (ImpactTech) M Begin(USNavy)	118
2009		
176	Gas Turbine Casing Response to Blade Vibrations: Analytical and Experimental results Gareth L. Forbes, Robert B. Randall (Uni of NSW)	119
2009		
177	Health and Usage Monitoring Systems as a Service A A Hughes, I Woolley (Dytecna UK)	201
2009		
178	C-130J Propeller Balancing Brian Rebbechi, (DSTO)	Unavailable
2009		
179	Strain predictions using Artificial Neural Networks for full-scale fatigue monitoring system Javier Gómez-Escalonilla, Jaime García, M Andrés, J Armijo (EADS Spain)	203
2009		
180	In-Situ Structural Health Monitoring for Aircraft Structures Steve Galea (DSTO)	Unavailable
2009		
181	The Research, Development, and Fielding of a HUMS as an Enabler for Condition-Based Craig A Hershey (US Army)	205
2009		
182	Event based HUMS for Land Vehicles Chris Doran, (Industrea)	Unavailable
2009		
183	SEI Structural Data Recording System George Grove (Systems & Electronics Inc – US)	Unavailable
2009		
184	Crack Initiation Detection and Crack Growth Monitoring with DMI Technology William F Ranson, Reginald I Vachon (Direct Measurements, Inc. USA)	208
2009		
185	Structural Integrity Assessment of Plates using Vibration Monitoring: Theory & Simulation L Kannappan, K Shankar (Uni of NSW)	209
2009		
186	Combination of Fusion and Preprocessing Techniques to Enhance Air Vehicle HUMS M Smith, R Patrick, C Byington (Impact Tech) Bin Zhang, G J Vachtsevanos (Georgia IT), R Del Rosario, D R.Wade (US Army) D T Suggs (Sikorsky)	210
2009		
187	Automated design and optimisation of sensor sets for Condition-Based Monitoring S. D. Rudov-Clark, A. J. Ryan, C. M. Stecki, J. S. Stecki (PHM Technology)	211
2009		
188	Towards Wireless Sensor Usage and Health Monitoring of Helicopter Rotor Components N Lieven, P Escamilla-Ambrosio, P Bunniss, S Burrow, L Clare (Bristol Uni)	212
2009		
189	Rapid Operational Loads Monitoring Capability – CMPLE (Compact Multi-Parameter Loads Steve Galea, (DSTO)	Unavailable
2009		
190	Effects of limiting the bandwidth of the vibration signal on bearing fault detection and Nader Sawalhi , Robert B. Randall (Uni of NSW)	214
2009		
191	ACRA Control and/or Heim data acquisition equipment ETMC	Unavailable
2009		

HUMS Conferences General Index

192	C130J-30 Propeller Balancing Software	Unavailable
2009	Qinetiq Australia	
193	TAE Management of RAAF F11 TF30 Engine Condition Monitoring Data	Unavailable
2009	Matt Williams TAE	
194	Demonstration of MADe Software	Unavailable
2009	J Stecki, PHM Technology	
195	HUMS: A Hands On Approach	Unavailable
2009	ACRA Control (Ireland)	
196	Demonstration of CAMEO System – Open-Source Automated Maintenance Environment	Unavailable
2009	Joseph Schmidley, (SPAWAR Pacific USA)	
	Seventh DSTO International Conference on Health & Usage Monitoring Systems	
2011	General Information	info
197	HUMS Keynote: ADF Experience with HUMS	Unavailable
2011	T Saunder (DGTA)	
198	Critical Systems Engineering Perspectives for the Development and Implementation of	
2011	T Dabney, T Postma (JSF Off.), L Hernandez (Global SS), R Vodicka (DSTO)	102
199	Autonomic and Sense and Respond Logistics: Evidence from the USA and UK	
2011	Greg Gunter (Uni S Qld), Ray Hingst (Aust Army)	103
200	Overview Of In-Situ Environmental Monitoring And Corrosion Sensing Systems For	
2011	Steve Galea, Peter Trathen, Bruce Hinton (DSTO)	104
201	The Minimum Flight Routine (MFR) for UK MoD Puma Helicopter Rotor Track and Balance	
2011	S Pollard, R Hunt, P Morrish (Helitune UK), N Lieven (Uni of Bristol)	105
202	Rotorcraft Weight and Center of Gravity Estimation	
2011	Nicole Apetre, Subhasis Sarkar, N Iyyer, (TDA US), Nam Phan (USNavy)	106
203	Use of Artificial Neural Networks for Helicopter Load Monitoring	
2011	Andrew Liu, Catherine Cheung, Marcias Martinez (NRCCanada)	107
204	SUPER HORNET – F414 Engine Condition Monitoring System	
2011	M Williams (TAE)	108s
205	An Alternative Approach for Setting Wear Debris Limits	
2011	Andrew Becker (DSTO)	109
206	Enhancing Propulsion System Condition Monitoring for the RNZAF	
2011	Adrian Weller (DTA - New Zealand)	110
207	Implementation of Structural Health Monitoring for the USMC CH-53E	
2011	Jason Thomas, C Neubert, Mark D. Little, Brian L. Fuller (USNavy, et al)	111
208	Flight Testing of Wireless Sensing Networks for Rotorcraft Structural Health and Usage	
2011	Steven W. Arms, Christopher P. Townsend, Jacob H. Galbreath, Stephen J. DiStasi (Microstrain), Daniel Liebschutz, Nam Phan (USNavy)	112

HUMS Conferences General Index

209	Structural Health Monitoring and damage detection of the helicopter main rotor blades	
2011	Krzysztof DRAGAN (AFIT – Poland)	113
210	Spin Test Monitoring Using Blade Tip Timing Measurement	
2011	Wenyi Wang (DSTO)	114
211	Optimization of PHM System for Electronic Assemblies Using Maintenance Aware Design	
2011	Sandeep Menon (CALCE), Chris Stecki (PHM T) Jiaqi Song (City Uni Hong Kong), Michael Pecht (CALCE - USA)	115
212	C-130J In-Flight Propeller Balancing	
2011	Brian Rebbechi, Paul R. Marsden (DSTO), SGT Brendan J. Church (RAAF)	116
213	Using HUMS Data to Manage the Fatigue Life of Rotorcraft Critical Dynamic Components	
2011	David J. White (Avion Solutions – USA)	117
214	Integrated Software Platform for Diagnostics and Prognostics with Air Vehicle HUMS	
2011	Carl S. Byington, Romano Patrick, Matthew J. Smith (Impact Tech), George J. Vachtsevanos (GeorgiaTech USA)	118
215	MRH 90 HUMS paper (removed)	
2011	A Tuck, C McGregor, R Buller (QinetiQ Au), J Fay (Australian Aerospace)	Unavailable
216	KC-30A Structural Health Monitoring System Verification and Validation	
2011	Ashley Tuck (QinetiQ Aust), Vlado Kekoc (DSTO)	201
217	Non-Destructive Testing Techniques for Aerospace Applications	
2011	Alison C. J. Glover (Olympus Australia)	202
218	Update to a Systematic Approach to Bearing Health Monitoring	
2011	Onder Uluyol, Kyusung Kim, Chris Hickenbottom (Honeywell USA)	203
219	Evaluation of Vibration-Based Health Assessment and Diagnostic Techniques for	
2011	David Siegel, Jay Lee (Uni Cincinnati), Canh Ly (US Army)	204
220	Enabling Condition Based Maintenance with Health and Usage Monitoring Systems	
2011	Scott Kilby, Eric Rabeno, James Harvey (US Army)	205
220	Terrain Regime Identification and Classification for Condition Based Maintenance	
2011	Kait Hatton, Mark S. Bounds (US Army)	206
221	The Role of HUMS within the Evolving Generic Vehicle Architecture – the next iteration	
2011	Paul Vingoe, Keith Mowbray (Dytecna UK)	207
222	Joint Time Frequency Vibration Diagnostics of Main and Engine Accessory Gearboxes	
2011	C S Byington, M J Watson, J S Sheldon, H Lee, G Mott (Impact Tech US)	208
223	Improved simulations of faults in gearboxes for diagnostic and prognostic purposes using	
2011	Nader Sawalhi, Lav Deshpande, Robert B. Randall (Uni of NSW)	209
224	Detachable Acoustic Electric Feedthrough for In Situ SHM Systems	
2011	S Moss, J Skippen, M Konak, Ian Powlesland, Steve Galea (DSTO et al)	Abstract
225	HUMS Keynote: The Story So Far, Development of an Integrated Vehicle Health	
2011	Ian Jennions (IVHMC – UK)	Unavailable

HUMS Conferences General Index

226	Next Generation Data Acquisition Technologies for Aging Aircraft	
2011	Stephen N. Willis, (ACRA Control - Ireland)	212
227	Application of the AUSAM System for Fatigue Crack Monitoring in a Wing Skin: A Case	
2011	Cédric Rosalie, Nik Rajic (DSTO)	213
228	Slotted Circular Microstrip Patch Antenna Application in Strain Based Structural Health	
2011	A Daliri, A Galehdar, S John, Wayne S T Rowe, Kamran Ghorbani (RMIT Uni)	214
229	Maneuver Recognition Verification & Validation Using Visualization	
2011	S Moon (L3 Comms), Nam Phan (USNavy), D Churchill (Microstrain) US	215
230	The Dutch Approach to Force Life Management (FLM) Issues	
2011	Lex ten Have, Arjen Vollebregt (NLR - The Netherlands)	Unavailable
231	Replacing Obsolete Equipment for Drivetrain Health Monitoring on RAN Sea King	
2011	Paul Marsden (DSTO)	217
232	HUMS Implementation Phase - Lessons Learned and Outstanding Issues	
2011	Panel	Unavailable
233	Onboard Helicopter Rotor Condition Monitoring Systems and Smoothing Algorithms	
2011	Peter Morrish (Helitune) Steve Pollard (University of Bristol)	Unavailable
233	F414 Engine Condition Monitoring System (ECMS) - Program Demonstration	
2011	Matt Williams, TAE	Unavailable
233	Next Generation Multi-role Recording: A Reliable, Flexible Solution	
2011	Niall Heffernan, Acra Control	Unavailable
234	Unavailable – Avalon Demonstration	
2011	Unavailable	Unavailable
235	Demonstration of Maintenance Aware Design Environment (MADe) Software	
2011	Dr Shanna Rudov-Clark (PHM Technology)	Unavailable
	Eighth DSTO International Conference on Health & Usage Monitoring Systems	
2013	General Information	info
236	LP Coombes Lecture: HUMS Certification for Military Aircraft	
2013	Air Commodore Terry Saunder, DGTA	101s
237	Weight Optimization Using Lightweight Data Acquisition Nodes	
2013	David Buckley (Acra Business Unit, Curtiss Wright Ireland)	102
238	Improving Passive RFID Tag Performance: Application to Rotorcraft Dynamic Component	
2013	Maciej Zawodniok, Jagannathan Sarangpani (Missouri S&T), Douglas Algera, Amit Singh, Nagaraja Iyyer (TDA Inc), Nam Phan (USNavy)	103
239	Localized fault detection and diagnosis in rolling element bearings: A collection of the	
2013	N Sawalhi (Prince Mohammad Bin Fahd Uni), RB Randall (Uni of NSW)	104
240	Questioning How Limits Are Set	
2013	A Becker, P Marsden, D Forrester (DSTO), Sylvester Abanteriba (RMIT)	105

HUMS Conferences General Index

241	The Benefits and Costs of Land Vehicle Health & Usage Monitoring Systems: A	
2013	Bryan McGrath (Tectonica), Richard De Nardi (Systematiq)	106
242	Health and Usage Monitoring Proof of Concept Study Using Army Land Vehicles	
2013	D Ludovici, Michael Bray, Vish Wickramanayake (Land Engineering Agency)	107
243	A Novel Approach for Structural Health Monitoring Using Thermoelastic Stress Analysis	
2013	Nik Rajic, Steve Galea (DSTO)	108s
244	Delamination Monitoring of Composite Plates using Vibration-based Surrogate Assisted Optimisation	
2013	Zhifang Zhang, Krishna Shankar, Tapabrata Ray, Murat Tahtali (Uni of NSW)	109
245	Structural Health Monitoring of Composites using System Identification	
2013	Younus Ali, Krishna Shankar (Uni of NSW)	110
246	Second HUMS Keynote: Challenges for Aircraft Prognostics	
2013	Nick Lieven, Pro Vice-Chancellor, Uni of Bristol	201s
247	Tools for HUMS Exploitation	
2013	CJ Hockley, A Zagorecki, A Duncan, KR McNaught, K Wand (Cranfield - UK)	202
248	Five Decades of Developing Aircraft Usage Technology	
2013	David J White (Spectra Tech – US)	203
249	Identification of Abnormal Event by Usage and Flight Data Monitoring	
2013	Pierre Bect, Pierre-Loic Maisonneuve (Eurocopter), Zineb Simeu-Abazi (G-SCOP), Patrick Lyonnet (ENISE)	204
250	Scalable, Synchronized Network of Lossless Wireless Sensors for Rotorcraft Monitoring	
2013	S J DiStasi, C P Townsend, J R Bessette, R P Ketcham (MicroStrain US)	205
251	Energy Harvesters for Rotorcraft Wireless Sensor Networks	
2013	Thomas M Leamon, Christopher P Townsend, David L Churchill, Michael J Hamel, Max B Fried (MicroStrain), Roberto Semidey, Nam Phan (USNavy)	206
252	Integration of Load Path Analysis and Harmonic Regression for Usage Monitoring of	
2013	Xiaobo Yu, John Vine (DSTO)	207s
253	An Instrument for Assessing Metallic Wear Debris Captured by Filter Patch or Magnetic	
2013	A Becker (DSTO)	208
254	RAAF AE2100D3 Engine Health Management	
2013	Andrew Wade (RAAF)	209s
255	Contributing to a Healthier Propulsion System for the Joint Strike Fighter (JSF)	
2013	F Antonio Galati, Wenyi Wang (DSTO)	210
256	Examining the Interaction between Condition Based Maintenance and the Logistics	
2013	Guy Edward Gallasch, Benjamin Francis (DSTO)	211

HUMS Conferences General Index

257	Fleet Life Management support for the NH90 community	
2013	AA Ten Have, AM Vollebregt, H Tijink (NLR - The Netherlands)	212
258	Super Hornet Engine Condition Monitoring Software Demonstration	
2013	Matt Williams TAE Australia	Unavailable
259	Next Generation Multi-role Recording: A Reliable, Flexible Solution	
2013	Niall Heffernan, Curtiss-Wright (Ireland) ETMC (Aust)	Unavailable
	Ninth DSTO International Conference on Health & Usage Monitoring Systems	
2015	General Information	info
260	HUMS KEYNOTE 1: The Black Box in support of aircraft safety Part 1: How could such a	
2015	Peter Warren (son of inventor)	101a
261	HUMS KEYNOTE 1: The Black Box in support of aircraft safety Part 2: The Evolution of	
2015	Neil A H Campbell (ATSB)	101b
262	HUMS KEYNOTE 1: The Black Box in support of aircraft safety Part 3: Developments in Flight Recorder Equipment and Analysis	
2015	Neil A H Campbell (ATSB)	101c
263	HUMS are NOT a Magic Bullet	
2015	Graham F Forsyth (DSTO retired)	102
264	Moving Beyond Aircraft Health Monitoring Mythology: The Journey Toward Obtaining Tangible Life-Cycle Management ROI	
2015	Stephen R Hall (Celeries - Canada by Internet)	103
265	MH-60 Droop Stop Pounding Identification	
2015	Suresh Moon (TDA), Daniel Liebschutz (USNavy)	104
266	Energy Harvesting, Wireless Fiber Optic Sensor (WiFOS™) Structural Health Monitor	
2015	E Mendoza, C Kempen, Yan Esterkin, Sunjian Sun (Redondo Optics - USA)	105
267	Investigation of a helicopter harsh landing based on signals from installed sensors	
2015	Andrzej Leski, Marcin Kurdelski, Michal Stefaniuk (AFIT – Poland)	106
268	The challenge of forecasting cost of complex military, aerospace and weapons projects	
2015	Dale Shermon (QinetiQ UK)	107
269	Generic mobile device deployment for Aerospace Ground Support Equipment HUMS	
2015	Craig Watkins, Ed Custeau (Spiral Systems)	108
270	Models and Tools for the Cost/Benefit Analysis of Condition Based Maintenance	
2015	Guy Edward Gallasch (DSTO)	109
271	Accelerated Testing of UH-60 Viscous Bearings for Degraded Grease Fault	
2015	B Dykas, A Hood (US Army), T Krantz (NASA), Marko Klemme (Bundeswehr)	110
272	Estimating Bearing Fault Size using Vibration Analysis	
2015	W Wang, A Becker (DSTO), N Sawalhi (Prince Mohammad Bin Fahd Uni)	111

HUMS Conferences General Index

273	Vibration Comparison Between Conventional and Hybrid Angular Contact Bearings	
2015	Kelsen E. LaBerge (US Army)	112
274	A Standard for Filter Debris Analysis	
2015	Andrew Becker (DSTO), Adrian Weller (DTA New Zealand)	113
275	An Introduction to Prognostic Fingerprint Technology©	
2015	J.D. Cockram , J.W.C. Baker (Copernicus Technology, UK & Aust.)	114
276	A method through data overload: HUMS System Information Exploitation	
2015	Ben Floodpage (Frazer-Nash)	115
277	Landing Gear Health & Usage Management System (HUMS) Condition Based Maintenance	
2015	D Wisser, C Forrest (ES3, Inc.- USA)	116
278	HUMS Keynote 2: Lessons Learnt from 30 Years of RAAF F/A-18 Hornet Usage Monitoring	
2015	Rob Findlay (BAE Systems Aust)	201s
279	An Innovative Low Maintenance Data Acquisition Solution for Load Factor Capture	
2015	J Niebuhr, M Greer (USAF), D Corry, E O'Brien (Curtiss-Wright Controls)	202
280	HeloTrack™; Implementing the US Navy's Newest Rotary Wing Dynamic Component	
2015	P Dwyer, S Bradfield, R Owen, A Singh (TDA) G Molinaro, K Gass, Daniel Liebschutz, R Semidey (USNavy), D Hamilton (USMC Retired)	203
281	Case Studies: Use of Big Data for Condition Monitoring	
2015	R Bharadwaj, D Mylaraswamy, A Vechart (Honeywell), M Smith (Clockwork), P Figliozzi (Blitztrade), Prof. Gautum Biswas, D Mack (Vanderbilt Uni)	204
282	A History of Tracking Fatigue of the RAAF F/A-18 Hornet	
2015	P D White, L Molent (DSTO), S Jones (DMO), M Gordon (DGTA)	205
283	Validation of an Optical Fibre Based Plate-Wave Mode Conversion Technique for Damage	
2015	C Rosalie, N Rajic, P Norman, C Davis (DSTO)	206
284	Determination of composite patch thickness on the accuracy of nondestructive testing of	
2015	M Salacinski, A Leski, P Synaszko, M Stefaniuk, K Dragan (AFIT Poland)	207
285	Collection, Storage, Processing and Movement of Aircraft Data using a Validated and Secured Means	
2015	Curtis Rihn, Lars Rosenblade, Mark Thompson (Thompson Aerospace – US)	208
286	Optimising Land Vehicle Life Cycle Cost through Health and Usage Monitoring Systems	
2015	Michael Bray (DMO)	209
287	Wireless Sensor Units for HUMS Data Acquisition	
2015	Jan Beran, Robert Kalmar, Andrew Vechart (Honeywell)	210
288	A Method to Estimate the Cost of Corrosion for Australian Defence Force Aircraft	
2015	M Cassidy, J Waldie (BAE Systems Aust), S Palanisamy (Swinburne)	211
289	Outcomes of the Corrosion Prognostic Health Management (CPHM) Capability and	
2015	John Jacob, Rob Findlay, Simon Jacob, James Waldie (BAE Systems Aust), Tony Trueman, Andrew Butler (DSTO)	Abstract

HUMS Conferences General Index

290	The Development of a Corrosion Prognostic Health Management System James Waldie, Simon Jacob, John Jacob, Neil Moorhouse (BAE Systems Au)	Abstract
2015		
291	Prototype Rotational Energy Harvester for Structural Health Monitoring Owen R Payne, Scott D Moss (CRC for Advanced Composite Structures)	214
2015		
292	Development of Diagnosis Algorithm for HUMS OeCheul John Kim, (Korea Aerospace), Byeong Keun Choi, Byung Hyun Ahn, Jeong Min Ha, Jong Myeong Lee, Yong Ho Jang (Gyeongsang NU)	Abstract
2015		
293	Smart Pulse Deice System with Integral SHM Sensors Joseph Gerardi, Gail Hickman, Chris Farmer (Innovative Dynamics Inc – US)	216s
2015		
294	On-Board processing for data Reduction in HUMS (Airshow Demo) Colin Couper (Curtiss-Wright – Ireland)	Unavailable
2015		
295	Novel applications of inductive wear debris sensors – magnetic chip quantification and Andy Becker (DSTO)	401s
2015		
2017	Tenth DST Group International Conference on Health & Usage Monitoring Systems General Information	info
2017		
296	HUMS2017 Opening Address Wenyi Wang (DST Group)	101s
2017		
297	HUMS2017 Keynote 1: The Status of HUMS for Helicopters within the UK MoD Paul Harding & Jeff Day (MoD UK)	102
2017		
298	The Future of HUMS in the ADF David Hood (DASA)	Abstract
2017		
299	Applying Machine Learning-Based Diagnostic Functions to Rotorcraft Safety Daniel Wade (US Army AMRDEC)	104
2017		
300	Sikorsky HUMS Data Analytics Jim Cycon (Lockheed Martin / Sikorsky Aircraft Corporation)	Abstract
2017		
301	HUMS for AGT1500 Gas Turbine Engine of the M1A1 Abrams Tank Greg Mason & Tim Conroy (TAE Australia)	Abstract
2017		
302	Development of a Flight Manoeuvre Recognition Software Application for Improved Usage Jack Lamshed (QinetiQ Australia)	107
2017		
303	Solving the Mystery of the Disappearing Symptom and Why it Benefits the Product Life-Cycle John Baker (Copernicus Technology Ltd, Australia)	108
2017		
304	Predicting Corrosion on F-35 Joint Strike Fighter Simon Jacob, Steven Knight and James Waldie (BAE Systems Australia), Aaron Sudholz (Fortburn Pty Ltd), Chris Loader and Grant McAdam (DST Group)	Abstract
2017		

HUMS Conferences General Index

305	On Monitoring the Health and Remaining Life of Vehicle Suspension Systems	
2017	Guy Edward Gallasch and Nicholas Brealey (DST Group)	110
306	Advances in Airframe Load Monitoring Methodology for Military Fighter Aircraft	
2017	Oleg Levinski and David Conser (DST Group)	111
307	A Corrosion Management System for Seahawk	
2017	James Waldie and Simon Jacob (BAE Systems Australia), Peter Trathen, Darren Gerrard and Chris Loader (DST Group)	Abstract
308	HUMS2017 Keynote 2: State of the Art in Aerospace Structural Health Monitoring	
2017	Chun-hui Wang (UNSW)	201s
309	From HUMS to PHM: Are We There Yet?	
2017	Joanna Kappas (DST Group)	202
310	Engine Lubrication Oil Condition Monitoring: A Machine Learning Approach	
2017	Vu Thanh Le, Chee Peng Lim, Shady Mohamed, Saeid Nahavandi (Deakin University), Leong Yen, Guy Gallasch, Stephen Baker (DST Group), David Ludovici, Nick Draper, Vish Wickramanayake (CASG)	203
311	Machine Learning Techniques for Automatic Sensor Fault Detection in HUMS Systems	
2017	Dr. Thomas Melia, Alan Cooke (Curtiss-Wright), Siobhan Grayson (University College Dublin)	204
312	Effecting Condition-Based Maintenance for UAVs	
2017	Joshua Segal and Yori Lavi (AppliedEA)	205
313	Vibration Signal Pre-processing for Spall Size Estimation in Rolling Element Bearings using Autoregressive Inverse Filtration	
2017	Nader Sawalhi (Prince Mahammad Bin Fahd University, Saudi Arabia), Wenyi Wang and Andrew Becker (DST Group)	206
314	Integrated Approach for Health Assessment of Engine Bearings through Numerical Simulation	
2017	M.D. Haneef, R.B. Randall, W.A. Smith, Z. Peng (UNSW)	207
315	Use of Advanced Signal Processing Techniques to Diagnose Planet Bearing Faults in Variable Speed Conditions	
2017	Wade A. Smith, Robert B. Randall, Xavier de Chasteigner du Mée, Zhongxiao Peng (UNSW)	208
316	High Cycle Fatigue Testing : Capability Development and Sensor Evaluation	
2017	Ross Antoniou (DST Group)	Abstract
317	Real Time Oil Condition Monitoring, Practical Examples of Trend Analysis & Failure Prevention	
2017	Sam Botterill (System 7 Australia)	210
318	Employing HUMS to Automate Dull Administration Tasks in Logistics and Fleet Management	
2017	Guy Edward Gallasch, Nicholas Brealey and Leong Yen (DST Group)	211
319	Landing Gear Structural Health Prognostic / Diagnostic System	
2017	Chad Forrest (ES3), Darren Privitera (Flight Data Systems Pty Ltd)	212

HUMS Conferences General Index

320	Application of the Teager Kaiser Energy Operator to Machine Diagnostics	
2017	Robert B. Randall and Wade A. Smith (UNSW)	213
321	E7-A AEW&C Wedgetail Boeing-developed HUMS Data Analysis Tool (ASIGS Aircraft Structural Integrity Ground Station) Overview	
2017	Brooke Griffin (Boeing Defence Australia)	Abstract
322	Planet Bearing Fault Detection using Unified Change Detection Approach	
2017	Wenyi Wang (DST Group)	Abstract
323	A Nonlinear Dynamic Model of Defective Rolling Element Bearings with a Known Defect Topography on the Inner Raceway	
2017	Francesco Larizza, Carl Q. Howard & Steven Grainger (University of Adelaide), Wenyi Wang (DST Group)	216
324	Remote Location Wear Debris Analysis	
2017	Andrew Becker (DST Group), Brian Dykas (ARL), Adrian Weller (DTA New Zealand)	217
325	A Video-Based Wear Particle Imaging and Characterisation System for Real Time Wear Debris Monitoring	
2017	Hongkun Wu (PhD Student), Ngai Ming Kwok, Zhongxiao Peng (UNSW)	218
326	Acoustic Emission in Grease-lubricated Helicopter Drivetrain Bearings	
2017	Brian Dykas and Adrian Hood (ARL), Andrew Becker (DST Group)	219
327	Tracking Bearing Degradation using Gaussian Wavelets	
2017	F. Antonio Galati (DST Group)	220

See YOU in 2019!