ONLY the HUMS2005 portion of AIAC-11 shown here.

HUMS2005 Program

Tuesday, 15 March 2005

08:30 | **Plenary 1: Major General Robert W Chedister** *LaTrobe Theatre*

09:30 | HUMS Primary Stream - 1 *Corryong 1*   Chair: Dr Chris Guy, Chief Air Vehicles Division, DSTO

Experiences of using HUMS in UK Military Helicopters
• Peter Rushworth and Dr Giles Clark AD AIM, United Kingdom
HUMS in the era of EASA, JAA, CAA and ICAO
• John McColl, CAA & Chairman of HHMAG

10:30 | *Tea Break*

11:00

HUMS Primary Stream - 2 *Corryong 1*	HUMS Second Stream - 2 *Corryong 2*
Chair: John McColl, CAA UK	Chair: Keith Mowbray, UK
Swashplate Bearing Monitoring with US Army and National Guard Vibration Management Enhancement Program (VMEP) • Dr Jonathan A Keller, U.S. Army RDECOM, USA **Benefits of Usage Monitoring and T&E in Fleet Management of U.S. Army Helicopters** • David J White, Spectra Technical Solutions, Inc., USA **Trends in HUMS - The Next 5 Years** (John McColl (C), Hanan Silverman, Dr Sam Crews & Patrick O'Hara)	**vHUMS - Health and Usage Monitoring of Man and Machine** • Mr Robert G Angel, GPS Online Limited **Stress Memory Technology and Military Bridging Applications** • Matthew J Knight, DSTL, United Kingdom *Left free to allow all to attend panel session*

12:30 | *LUNCH*

13:30 | Plenary 2 - **International Partnerships - The Global Reach of Boeing**
• Miller Adams, Boeing Technology Ventures, USA *LaTrobe Theatre*

14:30

HUMS Primary Stream - 3 *Corryong 1*	HUMS Second Stream - 3 *Corryong 2*
Chair: Patrick J. O'Hara, UK	Chair: Richard Fielding, Ireland
T-HUMS - AH64 Lead the Fleet (LTF) Summary and a Glimpse at Hermes 450 MT-HUMS • Hanan Silverman, RSL Electronics LTD, Israel **Bristow Helicopters and HUMS** • Mr Andy J Evans, Bristow Helicopters Ltd, UK	**Data Formats:IRIG-107, DATaRec-3 IRIG-106 Chapter 10** • Dr Balázs Bagó, Heim Systems GmbH, Germany **On-Board Vehicle Usage Monitoring and Prognostics System** • Alan Peltz, US Army Aberdeen Proving Ground

15:30 | *Tea Break*

16:00

HUMS Primary Stream - 4 *Corryong 1*	HUMS Second Stream - 4 *Corryong 2*
Chair: Sam Fisher, DSTO Australia	Chair: Alan Peltz, USA
C-130J-30 In-Flight Propeller Balancing • Mr Brian Rebbechi, DSTO Australia **FDR's as HUMS: A Report on Data Issues, Including the Accuracy of Manually Entered Data** • Mr Chris G Knight, DSTO Australia **New Technology for Implementing Condition Based Maintenance Plus** • Paul L Howard, Paul L. Howard Enterprises, USA	**Panther(CLV) HUMS A Generic Flexible Approach** • Andrew Hughes, Syen Limited, United Kingdom **Battery Monitoring and its Implementation in a Land Vehicle HUMS** • Peter W House, Ultra Electronics Electrics Div., UK **HUMS - A Strategic Performance Management Perspective (The More You Know – The More You Know)** • Alex Caldwell, Motec Pty Ltd

17:30

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HUMS2005 Program
Wednesday, 16 March 2005

07:30   *Buses to Airshow from Melbourne Convention Centre*

09:15
Technical Briefings at Avalon Airshow - 1
Conference Room 09:15 -14:15
[NOTE that sessions are continuous without gaps.]
Chair: Brian Rebbechi, DSTO

9:15 Case for XML as the Format for Long-term Storage of HUMS Data
• Graham F Forsyth, DSTO Air Vehicles Division
9:45 A Health Assessment of Lubricating Oil in Two Australian Army CH-47D Helicopters
• Andrew J Becker and Paul Rawson, DSTO Australia
Chair: TBA
10:15 (1 hr) Technology Aspects of the Tiger ARH
• LTCOL Andrew Jones (Australian Army Aviation)
11:15 UAV paper
Chair: Dr David Forrester, DSTO
11:45 Micro Usage Monitoring Systems (MUMS)
• Stephen J North, Oxley Group Australia Pty Ltd
12:15 Engine Monitoring System Groundstation Demonstration
• Niel Marais, Aerospace Monitoring and Systems, South Africa
Chair: TBA
12:45 NH 90 Briefing
• Hervé Moray (Eurocopter)
13:15 UAV paper
13:45 UAV paper

14:15

15:00   **Buses back from Airshow**
3:00pm for arrival at MCC at approx. 4:00pm
4:00pm for arrival at MCC at approx. 5:15pm
5:00pm for arrival at MCC at approx. 6:30pm

19:30   **Conference Dinner at NGV International**

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HUMS2005 Program
Thursday, 17 March 2005

08:30	**Plenary 3 JSF Training - A Challenging Transformation** **Ms Joanne Puglisi, Lockheed Martin** *LaTrobe Theatre*

09:30 | **HUMS Primary Stream - 5** *Corryong 1* **Chair: Dr Chris Guy, Scott Raithby, Canada**

Achieving Valuable Outcomes through Effective Collection and Use of Aircraft Structural Condition Data
- Mr Michael Houston, Aerostructures Technologies Pty Ltd

A Programmatic Approach to Health Usage Monitoring
- Amy Bubon, Honeywell International Inc., United States
- Ron Johnson, U.S. Navy H-46 Fleet Support Team, United States

10:30 *Tea Break*

11:00

HUMS Primary Stream – 6 *Corryong 1* Chair: Graham Forsyth, DSTO Australia	**HUMS Second Stream – 6** *Corryong 2* Chair: Jonathon Keller, US Army
The Validation of HUMS Engine Data • Joanna Kappas, DSTO Australia, AVD **COTS Approach to Dynamic Flight Data** **Acquisition for HUMS/OLM Applications** • Richard Fielding, ACRA Control Ltd, Ireland **Data Management - the HUMS Achilles Heel?"** (Graham Forsyth(C), Robab Safa, Andy Evans, Steve Boakes)	**The Development of a Comprehensive Machine** **Condition Monitoring Program** • Stephan Ebersbach, James Cook University **Detection of Structural Damage by Statistical** **Examination of Strain Distribution** • Henry C Li, SAMME, RMIT University *Left free to allow all to attend panel session*

12:30 *LUNCH*

13:30	**Plenary 4 Developing the AIRBUS Response to the European Vision 2020** • Dr Jöerg Kumpfert, AIRBUS S.A.S. *LaTrobe Theatre*

14:30

HUMS Primary Stream – 7 *Corryong 1* Chair: Andy Hughes, Wales	**HUMS Second Stream – 7** *Corryong 2* Chair: Patrick J. O'Hara, UK
Ground Vehicle HUMS Data for Diagnostic and Prognostics - and Getting Information to those that Need it • Clive Mott, United Kingdom **Vehicle Health Management in Network Centric Operations** • Steve Boakes, Smiths Aerospace, UK	**Reducing Operating Costs Through the Application of Diagnostics** • Peter Watson, Altair Avionics Corporation (UTC), United States **Structural Health Monitoring Applications for Inservice Military Airframes using CVM Technology** • Mr Mike R Lindroos, Structural Monitoring Systems Ltd

15:30 *Tea Break*

16:00

HUMS Primary Stream – 8 *Corryong 1* Chair: Graham Forsyth, DSTO Australia	**HUMS Second Stream – 8** *Corryong 2* Chair: Bob Angel, GPS Online, Australia
Rotorcraft Health Management System (RHMS) • Robab Safa-Bakhsh, The Boeing Company **P-3/S-3 Individual Aircraft Tracking Methodology** • Scott A Saunders, Lockheed Martin, USA **HUMS2005 Wrap-up** • Graham Forsyth, DSTO Australia	**Method to Compare Autocorrelation Analysis Results Obtained Using SmartHUMS Unit** • Eric CJ Lee, DSTO **The Development of a Quantitative Method For The Assessment of Abrasive and Corrosive Wear** • Stephan Ebersbach, James Cook University *See Wrap-up in Corryong 1*

17:30