2013 AHS AIRWORTHINESS, CBM, and HUMS SPECIALISTS' MEETING

Monday, February 11, 2013		Topics	Organization	Speaker
12:00 PM	12:10 PM	AHS and HAI Introductions		
		Civil Rotorcraft Operations		
12:10 PM	12:40 PM	Civil Keynote: The FAA Overview View of Health Usage Monitoring Systems	FAA	Lance Gant
12:40 PM	1:05 PM	Condition Based Maintenance Within the Civil Helicopter Industry	Bonneville Aircraft Services/ HAI	Kevin Russell
1:05 PM	1:30 PM	A New Approach to Helicopter Maintenance Development	Bell Helicopter	Brian Jenkins
1:30 PM	1:55 PM	Shell, Helicopter Safety and HUMS	Oil and Gas Producers (Shell)	Grant Campbell
1:55 PM	2:20 PM	HUMS Implementation in Civil Operations	CAP Aviation Consulting Group LLC	Stuart "Kipp" Lau
2:20 PM	**2:45 PM**	**BREAK**		
		Civil HUMS Applications		
2:45 PM	3:10 PM	Aviation Vibration Data	ERA Helicopters	Jason Alamond
3:10 PM	3:35 PM	Aviation Vibration Data Processing In Support of CBM	Chevron	Danny Green
3:35 PM	4:00 PM	Applying A Health & Usage Monitoring System (HUMS) in the Civil Environment	Cougar Helicopters Inc.	Dave Squires
4:00 PM	4:25 PM	Bristow: HUMS & CBM, A Large Helicopter Operator's Perspective	Bristow US LLC	Rick Barnett
4:25 PM	4:50 PM	Aircraft Data Monitoring Systems	PHI, Inc.	Tim Doucet
4:50 PM	**5:15 PM**	**BREAK**		
		Rotorcraft and HUMS OEM Perspectives		
5:15 PM	5:40 PM	Sikorsky Data Driven Fleet Management and Commercial Operator Support	Sikorsky	Dr. Andreas P.F. Bernhard
5:40 PM	6:05 PM	UTC Aerospace Systems: HUMS Technology Update	UTC Sensors and Integrated Systems	Ray Dora
6:05 PM	6:30 PM	Commercial HUMS Case Studies	Honeywell	Murdoc Wellborn
6:30 PM	6:55 PM	Bell Commercial HUMS - Past, Present, Future	Bell Helicopter TEXTRON	Brian Tucker
6:55 PM	**8:30 PM**	**SOCIAL (HEAVY HORS DEVOURS)**		

Tuesday, February 12, 2013				
		Emerging Maintenance Technologies		
7:30 AM	7:55 AM	An Alternative Approach to Anomaly Detection in Health and Usage Monitoring Systems – Mixture Modeling	Qinetiq	Dean Westerfield
7:55 AM	8:20 AM	Development of Engineering Standards for Dynamic Thresholding and Trend Alert Technology for Application to a HUMS-Equipped Fleet	AED/RMCI	Steve Krick
8:20 AM	8:45 AM	Data Quality Assurance for CBM Sensors	AED/RMCI	Jeremy Branning
8:45 AM	9:10 AM	Probabilistic Fatigue Damage Modeling for the Reliability Based Rotorcraft Component Life Assessment Using HUMS	Technical Data Analysis, Inc.	Chang-Hee Hong
9:10 AM	**9:35 AM**	**BREAK**		
9:35 AM	10:20 AM	Condition Monitoring using Standoff Vibration Sensing Radar	Honeywell/USC	Raj Bharadwaj
10:20 AM	10:45 AM	Parametric Data Reduction Tool (PaDRT)	PSU/CERDEC	Samuel Evans
10:45 AM	11:10 AM	In-Flight Tuning: Concept, Realization and Application	ZF Luftfahrttechnik GmbH/ Helitune Ltd., UK	Daniel Fuerst
11:10 AM	11:35 AM	Government Open Binary Format of the Army Bulk Aviation Condition-Based Maintenance Files	Peopletec/ AED	David Noever
11:35 AM	**12:35 PM**	**LUNCH**		
12:35 PM	1:00 PM	Application of Advanced Vibration Techniques for Enhancing Bearing Diagnostics on a HUMS-Equipped Fleet	Aeromechanics/RMCI	Lance Antolick
1:00 PM	1:25 PM	Waveguide Vibration Sensor for Mechanical System Health Monitoring	Etegent Technologies	Chris Larsen
1:25 PM	1:50 PM	Component Fault Prediction Simulation to support CBM initiatives	Sentient Science Corporation,	Adrijan Ribaric
1:50 PM	2:15 PM	Integrated Fluid Monitor for Health Usage Monitoring Systems	Spectro, Inc.	Pat Henning
2:15 PM	**2:40 PM**	**BREAK**		
2:40 PM	3:05 PM	Embedded Sensors for Early Detection of Loose Fasteners	Texas Research Institute	Russell Austin
3:05 PM	3:30 PM	Evaluation of a Novel Adaptive Alert Generation Technology on a Hums-Equipped Fleet	Humaware	Ken Pipe
3:30 PM	3:55 PM	Nonlinear Vibration-Interaction Metric for Health Assessment of Helicopter Drivetrain Systems	USC	Mohammed Hassan

Wednesday, February 13, 2013				
		Military Operations and CBM Results		
7:30 AM	**8:00 AM**	**COFFEE**		
8:00 AM	8:25 AM	CBM and Cost-Wise Readiness	AMCOM IMMC	Josh Kennedy
8:25 AM	8:50 AM	OH-58D Tail Boom Crack Detection System	Acellent Technologies/ AATD/ASH	Amrita Kumar
8:50 AM	9:15 AM	Return on Investment: Analysis of Benefits of the the Implementation of Elastomeric Wedges as Vibration Control on the Apache (AH-64D) Aircraft	USC	Erin Ballentine
9:15 AM	9:40 AM	Continued Evaluation of Gear Condition Indicator Performance on Rotorcraft Fleet	NASA Glenn	Irebert Delgado
9:40 AM	10:05 AM	HUMS experience on the Republic of Singapore Air Force AH64D Tail Rotor Gearbox	Republic of Singapore Air Force	Andy Chiang
10:05 AM	**10:30 AM**	**BREAK**		
10:30 AM	10:55 AM	AH-64D Swashplate Test Stands: Improving Understanding of Component Behavior in Rotorcraft Swashplates through External Sensors	USC	Thomas Hartmann
10:55 AM	11:20 AM	Military Airworthiness for CBM and HUMS: Processes, Policies, Qualification Standards, and Testing for US Army Rotorcraft Propulsion Systems	AED	Tim Rickmeyer
11:20 AM	11:45 AM	Application of Natural Language Processing: Techniques to Marine V-22 Maintenance Data for Populating a CBM-Oriented Database	USC	Andrew Patterson
11:45 AM	12:10 PM	Condition Based Maintenance Plus Integration Laboratory (CIL)	NAVAIR	Stephen Meizoso
12:10 PM	12:35 PM	A study of Nanoparticle Additives on the Performance of the AH-64 Intermediate Gearbox Lubricant to Achieve CBM Objectives	USC	Kareem Gouda