



# Airworthiness and HUMS Technical Meeting



<b>Preliminary Schedule</b>	
<i>Session 1: Structural Usage Applications</i>	
Ray Beale	Analysis of UH-60 L/M Black Hawk Fleet Usage in Support of a Partial usage Spectrum Update
J V R Prasad	Estimation and Control of Structural Loads and Stresses in Fatigue Critical Components
Jason Hull	Regime Recognition Accuracy
Fotis Kopsaftopoulos	A Self-Sensing Self-Diagnostic Composite Wing for Next Generation Intelligent Aerospace Structures
Michele Kochoff-Platt	Flexible Integrated Intelligent Network for Prognostic Health Management Systems
<i>Session 2: Systems Engineering and HUMS</i>	
Carlos Hernandez	Standard Flexible Integrated Intelligent Network Architecture for Integrated Vehicle Health Management Systems
James Hunt	21st Century Vibration Analysis Schooled by Legacy Checks
Michael Usrey	Wireless Sensor Suite for Electrical System Diagnosis and Prognosis
Dominic Southgate	In-Flight Tuning: Flight Test Results and 2nd Generation System
Susheel Yadav	Real-time Ballistic Damage Assessment for Rotorcraft
Michael Coatney	Correlation of Acoustic Emission Counts to Fatigue Life of 7075-T6 Aluminum
<i>Session 3: Data Science Applications</i>	
Andrew Wilson	Update on Army HUMS Data Science Activities
Matthew Statham	Event Recognition in HUMS Data using Dynamic Time Warping
David Noever	Large-scale Algorithm Suites for Rotorcraft Bearing Fault Detection
Eric Bechhoefer	Generation of a Tachometer Signal from a Smart Vibration Sensor
<i>Session 4: Algorithm and Sensor Design</i>	
<i>Panel</i>	Data Sharing for Improvement of Mechanical Diagnostics