



AIRWORTHINESS, CBM, and HUMS Technical Meeting

Call for Papers

Feb. 20-22, 2018 — Huntsville, AL



The Redstone Chapter of AHS International will be sponsoring a Technical Meeting on **Airworthiness, Condition Based Maintenance (CBM), and Health and Usage Monitoring (HUMS)** on **February 20-22, 2018 in Huntsville, Alabama**. The Technical Meeting will present applicable technologies that are new to continued airworthiness, current and potential processes, and hardware required for military and civil aircraft airworthiness.

Abstracts are to be submitted to abstracts@ahsredstone.org no later than **October 13, 2017**. It is strongly encouraged that abstracts be submitted in a .pdf format and not be any larger than 2MB. They should be approximately 1,000 words, present the status of the background data to be used, summarize figures and illustrations to be used (with samples), and include a summary of important conclusions. Abstracts will be accepted in a variety of technical disciplines related to commercial or military aircraft Airworthiness, Condition Based maintenance, Health-Monitoring Technologies, or Certification/Qualification of vertical flight aircraft. Papers are solicited on the following topics:

- HUMS/SUMS for maintenance credits
- Measuring the Return on Investment of HUMS installation, analysis, and data retention
- Using HUMS to improve logistics and decrease aircraft downtime
- Low-cost HUMS solutions
- Improvement of data flow on and off board aircraft
- Civil and Military Regulatory Advancements and Recommendations related to HUMS
- Flight Data Analysis (FOQA/FDM)
- Aviation Data Science
- Next Generation HUMS
- HUMS sensors, architecture improvements, and technologies
- Maintainer, Pilot, and Operator experiences and feedback
- Using HUMS to influence Future Vertical Lift design
- Fault Modeling and Simulation for HUMS development and qualification

Submittal of an abstract is interpreted as a professional commitment to prepare a final paper, attend the Technical Meeting and make a presentation based on that final paper. If an author finds that he or she will be unable to make the presentation, then it is incumbent upon him or her to find a substitute presenter. Abstract acceptance will be based, in part, on the submitter's previous history in following through with their previous commitments. One author may present no more than two papers. **Questions? Email abstracts@ahsredstone.org or call Daniel Wade, 256-313-9049, Marty Moulton, 256-313-9024, or Les Wiggins, 256-313-9034.**

Paper selection will be completed by November 3, 2017. Directions on the submittal of final versions of all papers will be emailed to selected authors. Papers must be submitted in electronic format. Allowable file formats are those which are compatible with Microsoft Word ("DOC" or "DOCX" files) or Adobe Acrobat ("PDF" files).

The Technical Meeting is open to an international audience. *As such, it is the policy of the AHS that all papers submitted for inclusion in the Proceedings and all presentations made at the meeting will be completely unrestricted. That is, they are not allowed to contain any proprietary, sensitive, classified, or otherwise-controlled information. Authors should make note of this policy when submitting abstracts. It is the author's responsibility to obtain appropriate clearance of his/her abstract, paper, and presentation in time to meet all deadlines.*