



AGENDA FOR THE 36th MEETING OF THE SAE AISC-SHM COMMITTEE

Chair: David Piotrowski
Vice-Chair: JB Ihn
Secretary: Maire-Anne DeSmet

September 10-12th, 2023
Hybrid Meeting

Crowne Plaza
Palo Alto, CA
September 10-11, 2023

Co-located with IWSHM
Stanford University; Hewlett Bldg, Room 200
September 12, 2023

All times listed are in Pacific US Time

NOTE: Sessions on Sunday (all day), Sept 10th, and Monday (all day), Sept 11th will be available on Teams. [LOG IN details on last page](#)

Day 1: Sunday, September 10th (8:30 am – 5:00 pm)

Crowne Plaza – Cyprus Meeting Room

8:00 am

Arrival & Setup & Registration

8:30 am

Welcome and Introductions

(David Piotrowski - Delta TechOps)

- Agenda
- Attendance & new member introductions
- Meeting rules
- Review of the SAE Anti-Trust, Patent Disclosure and IP Statements
- Roster update status, New members

9:00 am

Membership (Marie-Anne DeSmet, Dfinder; Kevin Bires, SAE)

- Review candidates for membership
- Revise member status as appropriate

9:10 am

Review of the Minutes from the last Meeting (Marie-Anne DeSmet, Dfinder)

- Revise (if necessary) the minutes for record / publication on SAE Standards Works (no discussions on action / pending items)

9:15 am

Review Open Action Items from previous meetings (Marie-Anne DeSmet, Dfinder)

- (No discussions on action / pending items)

9:30 am

SE-POD working group update (Fernando Dotta – Embraer, Nicholas Dominguez, Airbus Commercial – Focal Point SHM)

10:00 am

Break

10:30 am

Document Session - ARP6821 “Guidance for Assessing the Damage Detection Capability of SHM” (Dennis Roach - DR Engineering LLC & Paul Swindell - Diakon Solutions)

11:15 am

Statistician Session (Peter Parker – NASA)

- SE-POD
- ARP6821 stats review
- Others

12:00 noon

Lunch break

1:30 pm

Overview: NASA White Paper
(David Piotrowski - Delta TechOps, Peter Parker – NASA, Christopher Teubert – NASA)

- An Analysis of Barriers Preventing the Widespread Adoption of Predictive and Prescriptive Maintenance in Aviation

1:45 pm

G-11PMUQ Probabilistic Methods and Uncertainty Quantification Methods (Pete Carini - Collins, Michael Gorelik – FAA)

- NASA white paper
- Missing data

2:00 pm

Brief from the FAA Tech Center (Danielle Stephens - FAA)

2:30 pm

FAA R&D Idea Solicitation (All)

2:45 pm

Liaison Activities (David Piotrowski)

- A4A NDT Forum
- AC 43-218
- FAA SHM Issue Paper
- CBM Conference 2024
- EWSHM 2024
- HM1
- IVHM Steering Group
- MPIG
- SAE ARP 7122 (HM-1)
- Articles & Books

3:15 pm

Break

3:45 pm

Document Session: HM-1 Document AIR6970 Atmospheric Corrosion Monitoring (Fritz Friedersdorf – Luna Labs Inc)

4:00 pm

Document Session: Overview of HM-1 Document ARP7122 (David Piotrowski)

4:15 pm

Document Session: Reliability in the frame of SHMonitoring and SHManagement (Marie-Anne DESMET - Dfinder)

5:00 pm

Adjourn

6:00 pm

Group dinner (location TBD)

Day 2: Monday, Sept 11th

(8:30 am – 5:00 pm)

Crowne Plaza – Cyprus Meeting Room

8:00 am

Arrival & Setup & Registration

8:30 am

Document Session: AIR7160 SHM Gap Analysis (Matthias Buderath - Airbus Defense and Space Focal Point AHM)

9:30 am

Airbus applications (Nicholas Dominguez, Airbus Commercial – Focal Point SHM; Emmanuel Ganne, Airbus Commercial - Customer Support; Aurélien Rautureau, Airbus Commercial - NDT Engineering)

- AHM Focal group
- Use-cases and deployment strategy

10:00

Break

10:30 am

Embraer – New Technology (Fernando Dotta – Embraer)

Structural Health Monitoring With Augmented Reality For Aircraft Maintenance

11:15 am

Industry Outreach (Paul Swindell - Diakon Solutions)

- Training (FAA)

12:00 noon

Lunch break

1:30 pm

SE-POD/MAPOD Paul Swindell - Diakon Solutions)

3:00 pm

Break

3:30 pm

AISC-SHM Charter: Proposed Revision(s) (David Piotrowski, Delta)

4:00 pm

Next meetings (JB Ihn, Boeing)

- 2024 Spring
- 2024 Fall
- 2025 Spring

4:30 pm

Action items & Voting Discussion (Marie-Anne DeSmet, Dfinder)

5:00 pm

Adjourn

Joint AISC-IWSHM Reception (Crowne Plaza)

Day 3: Tuesday, September 12th
(8:20 am – 12:20 pm)
Stanford Univ. Campus - Hewlett 200;

12:20 pm
Adjourn

Joint Session with IWSHM

8:00 am

Arrival & Setup & Registration

8:20 am

Opening Remarks

Dr. Fu-Kuo Chang

8:30 am

IWSHM Keynotes:

- Steve Chisholm (Boeing Vice President and Chief Engineer for Mechanical and Structural Engineering) = **“An airframer’s perspective on SHM opportunities and challenges for commercial airplanes”**
- Dimitrios Zarouchas (Delft University of Technology) = **“Structural Health Monitoring – The key enabler of Condition Based Maintenance in aviation”**
- Anton Norberg Vooren (Chief Engineer of Norwegian Defence Material Agency) = **“Fielding a SHM system on an aging military aircraft”**

10:00 am

Break

10:20 am

IWSHM Opening Panel:

**SHM Perspectives from Commercial Aviation
Regulators and Operators: A Panel Discussion**

- Moderator = David Piotrowski, Delta Air Lines, Atlanta, GA, USA
- Panelists/Speakers
- David Piotrowski, Delta Air Lines, Atlanta, GA, USA
- Dr. Michael Gorelik, Federal Aviation Administration, Scottsdale, AZ, USA
- Ivan Li, Federal Aviation Administration, Des Moines, WA, USA
- Simon Waite, European Union Aviation Safety Agency, Cologne, Germany
- Rafael Foltran, Agência Nacional de Aviação Civil, Sao Jose dos Campo, Brazil
- Dr. JB Ihn, Boeing, Seattle, WA, USA
- Nicolas Dominguez, Airbus, Toulouse, France
- Fernando Dotta, Embraer, Sao Jose dos Campo, Brazil

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