

AGENDA

SAE International AISC-SHM Technical Committee, Meeting #27

Co-sponsored by IWSHM

Chair: Clemens Bockenheimer

Vice-Chair: David Piotrowski

8-10 Sept 2019

Stanford Univ. Durand Bldg, Room 450, Room 353

(in conjunction with IWSHM 2019 & Optional FAA Reliability Session, 10 Sept, 8:30 -14:00 h)

Online Meeting Information:

Join from PC, Mac, Linux, iOS or Android: <https://stanford.zoom.us/j/763400256>

Dial: +1 650 724 9799 (US Toll) or +1 833 302 1536 (US Toll Free) with **Meeting**

ID: 763 400 256

International numbers: <https://zoom.us/u/af4CBmOwo>

SIP: 763400256@zoomcrc.com

DAY 1: AISC-SHM Meeting, Stanford Univ.

Meeting room: Durand Bldg, Room 450

Backup breakaway room: Durand Bldg, Room 353

1. Welcome and Introductions (8 Sept 2019, 08:30 h)

- Welcome
- Meeting Room Information
- Objectives of the meeting
- Agenda
- Review of the SAE Anti-Trust, Patent Disclosure and IP Statements
- SAE Staff report
- Standard works overview

2. Review of Minutes from Last Meeting (8 Sept 2019, 08:45 h)

- Revise if necessary the minutes for record / publication on SAE Standards Works (discussions on action in TOP 6)

3. Membership Review (8 Sept 2019, 09:00 h)

- Roster update status

4. Liaison Activities (8 Sept 2019, 09:15 h)

- IWSHM Reception (Monday, Sept 9th, 17:00 h - 19:00 h)
- IWSHM Opening Remarks, Keynotes (Tuesday, Sept 10th, 08:30 h - 10:00 h)
- Joint IWSHM / FAA Reliability Session, Tuesday, Sept 10th, 10:30 h - 12:00 h)
- Reliability Forum with lunch (Tuesday, Sept 10th, 12:30 h - 14:00 h)
- HM-1, IVHM-SG Meetings, Sept 17-19, Paris
- A4A NDT Forum, Sept 17-19, Long Beach, CA
- MRO Europe, Oct 15-17, London (Panel Presentation)

5. Coffee Break (8 Sept 2019, 09:45 h)

6. Documents Review (8 Sept 2019, 10:00 h)

- ARP6461 'Guidelines for Implementation of Structural Health Monitoring on Fixed Wing Aircraft' - 5-yearly review (sponsor: David Piotrowski)
- AIR6245 'Perspectives on Integrating Structural Health Monitoring Systems into Fixed-Wing Military Aircraft' (sponsor: Hesham Azzam)
- AIR6892 'Guidelines for Implementation of Structural Health Monitoring on Rotorcraft' (sponsor: Peter Carini)
- ARP6821 'Guidance for assessing the Damage Detection Capability of Structural Health Monitoring Systems' (sponsor: Paul Swindell)

7. Other Business (8 Sept 2019, 10:15 h)

- Open action items from previous meetings
- Reliability Workshop: Debrief & Discussion (Paul Swindell)
- FAA Testing (Paul Swindell)
- Bill Meeker's work
- Draft AC 43-218 (IAHM)

8. Lunch (8 Sept 2019, 12:00 h) – Location: Patio outside Durand Bldg.

9. Document Session - ARP6821 'Guidance for assessing the Damage Detection Capability of Structural Health Monitoring Systems' – Part 1 (sponsor: Paul Swindell)
(8 Sept 2019, 13:00 h)

10. Session – 'SHM Gap Analysis' (sponsor: Matthias Buderath)
(8 Sept 2019, 15:00 h)

11. Adjourn (8 Sept 2019, 17:00 h)

12. AISC-SHM Social Dinner (8 Sept, 18:00 h – 21:00 h) – Location: Nola Restaurant (535 Ramona St., Palo Alto)

DAY 2: AISC-SHM Meeting, Stanford Univ.

Meeting room: Durand Bldg, Room 450

Backup breakaway room: Durand Bldg, Room 353

13. **Info Session – Real-time Condition-based Maintenance for Adaptive Aircraft Planning (ReMAP) (sponsor: Dimitrios Zarouchas)** (9 Sept 2019, 08:30 h)
14. **Document Session - AIR6892 'Guidelines for Implementation of Structural Health Monitoring on Rotorcraft' (sponsor: Peter Carini)** (9 Sept 2019, 9:15 h)
15. **Break** (9 Sept 2019, 10:00 h)
16. **Document Session - ARP6821'Guidance for assessing the Damage Detection Capability of Structural Health Monitoring Systems' – Part 2 (sponsor: Paul Swindell)** (9 Sept 2019, 10:15 h)
17. **Box lunch** (9 Sept 2019, 12:00 h) Location: Durand Bldg. Room 450
18. **Document Session - ARP6461 'Guidelines for Implementation of Structural Health Monitoring on Fixed Wing Aircraft '- 5-yearly review (sponsor: David Piotrowski)** (9 Sept 2019, 13:00 h)
19. **Review Session – Draft AC 43-218 = Operational Authorization of Integrated Aircraft Health Management Systems (IAHMS) (David Piotrowski)** (9 Sept 2019, 13:45 h)
20. **Break** (9 Sept 2019, 14:30 h)
21. **New Business** (9 Sept 2019, 14:30 h)
 - Proposal for New Document – Maintenance Credits (Piotrowski)
22. **Next Meetings** (9 Sept 2019, 15:00 h)
 - Spring 2020 Meeting (MHI Tokyo, dates TBC)
 - Fall 2020 Meeting (Host, venue and dates TBC)
23. **Final Discussion, Summary, Round Table** (9 Sept 2019, 15:15 h)

24. **Adjourn** (9 Sept 2019, 16:00 h)
25. **Reception** (9 Sept 2019, 17:00)
Location: Stanford Alumni Center
Time: 17:00 - 19:00

Note: Duration of document review sessions are flexible

DAY 3: In conjunction with IWSHM & FAA Reliability Workshop:

- **IWSHM – Stanford Univ. Hewlett Bldg. 200** (10 Sept 2019, 8:20-10:00)
 - Opening Remarks – Dr. Fu-Kuo Chang
 - Keynote #1 – David Piotrowski
 - Keynote #2 – Michael Gorelik
 - Keynote #3 – Dr. Bill Meeker
- **FAA Reliability Workshop** (10 Sept, 10:30 h–12:10 h, location: Hewlett 201)
 - Moderators: Paul Swindell & Holger Speckmann
- **Reliability Forum with Lunch** (10 Sept, 12:10 h -13:40 h, location: 320-220)

IMPORTANT NOTE: Please be sure to provide the minutes and all attachments to the minutes in electronic format to SAE Staff.

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