



SHM Session at ILA 9th of June

Gain valuable insights into the structural health monitoring and management to optimise maintenance schedules for maximum efficiency in aviation

DEFENCE AND SPACE

Organized by Matthias Buderath Airbus
Member of the EWSHM Organization Committee

AIRBUS

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June 5 – 9, 2024

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WHERE YOU FIND US?



Meeting rooms in the eastern part of Hall 6.
Room Neptune
Starting Time: 10:00 am
End Time: 02:00 pm

SHM ILA SESSION

Structural health monitoring and management solutions are designed to optimize aircraft safety, efficiency, and maintenance processes. The cutting-edge technology continuously monitors the structural integrity of aircraft components, providing near real-time and real-time insights to prevent potential failures and reduce maintenance costs.

Benefits of Structural Health Monitoring and Management:

- **Enhance Safety:** Proactively identify structural issues to prevent accidents and ensure passenger safety.
- **Reduce Costs:** Minimize maintenance expenses and operational downtime through efficient predictive maintenance strategies.
- **Optimize Performance:** Maximize aircraft availability and performance by addressing maintenance needs before they impact operations.
- **Stay Competitive:** Gain a competitive edge by adopting advanced SHM technology to meet evolving industry standards and customer expectations.

ILA SESSION PROGRAM

The ILA Session is coupled with the EWSHM Conference where we showcase the capabilities of Structural Health Monitoring with real-world scenarios and demonstration and provide hands-on experience and educational sessions.

The ILA Session will be supported by key researchers, suppliers, OEMs and Operators

A banner for the EWSHM 2024 conference. On the left is a photograph of a metallic aircraft component with blue light reflecting off its surface. To the right of the photo, the text reads: "EWSHM 2024 | 11th European Workshop on Structural Health Monitoring 10 - 13 June 2024 in Potsdam, Germany". On the far right of the banner is the logo for "dgzfp", which consists of the letters "dgzfp" in a stylized font with a signal icon to the right.

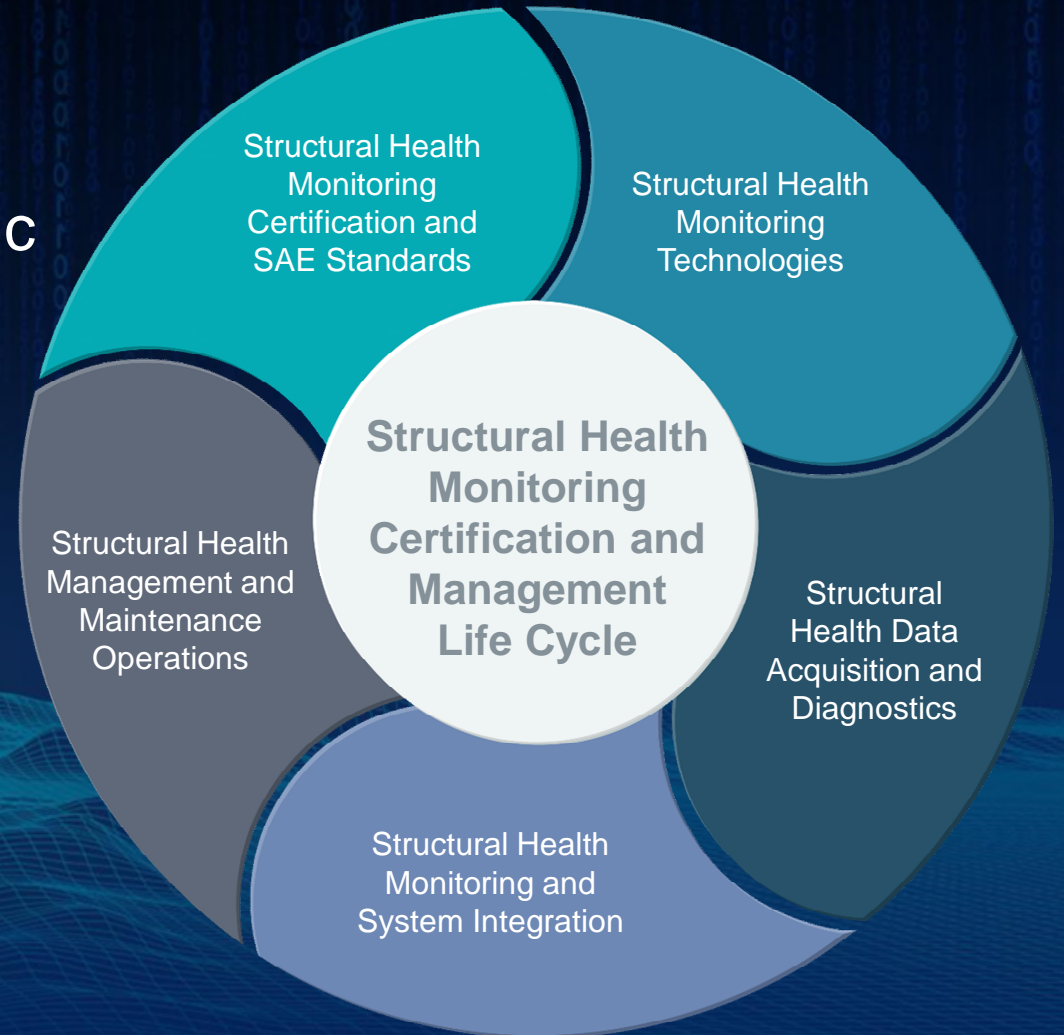
EWSHM 2024 |
11th European Workshop on
Structural Health Monitoring
10 - 13 June 2024 in Potsdam, Germany



→ [Conference schedule – 11. European Workshop on Structural Health Monitoring \(EWSHM 2024\)](#)

ILA SESSION PROGRAM

- Structural Health Technology Research
- Structural Health Data Acquisition & Diagnostic
- Structural Health Monitoring and System Integration
- Structural Health Management & Maintenance Operation
- Structural Health Monitoring Certification
- Reviewing existing SAE Standards and those in preparation



Detailed Agenda

Block 1 ~ 90 min

Structural Health Technology Research

- Advancing Structural Health Monitoring Research Focus and the Future of SHM Technologies

Prof. Fu-Kuo Chang, Stanford University
Prof. Peter Wierach, DLR

Structural Health Data Acquisition & Diagnostic

- Assessment of SHM System Deployment: Current Status and Trends

Dr. Amrita Kumar, Acellent Technologies
Trevor Lynch-Staunton , Anodyne Electronics
Manufacturing Corp

Structural Health Monitoring and System Integration

- Advanced Integration Strategies for SHM Technologies

Matthias Buderath, Christian Stolz,
Andreas Loehr, Airbus Defence and Space

Detailed Agenda

Block 2 ~ 120 min

Structural Health Monitoring and Management and Operation

- Insights into Structural Health Management and Maintenance Operations: Current Status and Future Perspective

Vincent Gros & Derk Daverschot, Airbus
Zeb Tidwell & Walter Jarecki, Boeing
Holger Speckmann, Testia

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- Structural Health Monitoring Certification Current Status and Future Challenges

Paul Swindell, formerly FAA

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- Reviewing existing SAE Standards and those in preparation

Martin Bach, Airbus & SAE-AISC

- Welcome to EWSHM

Prof. Christian Boller, Universität des Saarlandes

Thank you

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