Call for Papers

The AIAA Materials Technical Committee and the Survivability Technical Committee are sponsoring a Joint Special Session on

Survivable Materials and Structures

AIAA SciTech 2024
January 8-12 2024
Orlando, Florida

The AIAA (American Institute of Aeronautics and Astronautics) Materials Technical Committee and the Survivability Technical Committee are soliciting papers with recent research, technological advancements, and systems-level perspectives on Survivable Materials and Structures within the AIAA SciTech conference. Survivability improvements for air and space systems increasingly rely on the development of new structural designs, which must be lightweight but also satisfy a demanding set of mechanical, thermal, electromagnetic, or other requirements. Topics of interest include but are not limited to design, analysis, modeling, optimization, and/or testing of:

- Novel structural designs for impact mitigation and stress wave management
- Crashworthy structures
- Multifunctional structures for survivability
- Designs that incorporate structural health monitoring or self-healing
- Additively manufactured structural components with properties optimized for specific applications
- Improved ballistic protection systems for rotary-wing aircraft
- Improved thermal protection systems for spacecraft
- Low observability structures
- Thermal protection system materials, including polymer and ceramic matrix composites

The committee welcomes submissions from government, industry, academic, and small businesses. All abstracts are peer-reviewed.

Extended abstracts of no less than 1,000 words are due June 1, 2023
Author notification of paper acceptance on or about August 31, 2023
Final manuscript due December 5, 2023

Detailed deadline information, abstract preparation instructions, and policies can be found at: https://www.aiaa.org/SciTech/presentations-papers/call-for-papers

Make sure to select the “Survivable Materials and Structures” topic option under “Materials” or “Survivability” when prompted during submission.

For more information, contact one of the following organizers:

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