



Biomimicry Summit 2017: Nature-Inspired Exploration for Aerospace (NIEA)

October 3-6, 2017

Ohio Aerospace Institute

Cleveland, OH

The NIEA Summit features three days of technical talks, interactive panel discussions, poster presentations, and special events that highlight new approaches to the development of enabling technologies for aerospace applications. Summit 2017 will focus on **nature-inspired approaches to materials and structures for extreme environments**. Speakers will include innovative thought leaders from academia, industry, and government.

Sponsorship opportunities are available. Special events will occur throughout the program beginning with early registration and an afternoon social mixture on October 3, 2017

Day 1 Sessions present nature-inspired research and technology development areas for aerospace applications:

- In-Space Power Systems and Sustainable Energy Conversion
- Guidance, Navigation, Communications and Swarm Dynamics
- Propulsion for Extreme Environments
- The Biomimetic Process and How to Apply It to Aerospace

Day 2 Sessions focus on the Summit theme: *Nature-Inspired Materials, Structures and Processes for Extreme Environments*:

- Biomimetic Materials Development (Coatings/ Adhesives/ Fibers/ Smart Materials)
- Multi-functional/Bio-inspired Structures
- Designing Adaptive and Resilient Materials and Structures/ In-Situ Resource Utilization (ISRU)
- Sustainable Practices in Space

Day 3 Sessions put ideas into action with working party sessions on nature-inspired technologies in the areas of Big Data, Systemology, Human Persistence in Space, Hybrid/Alternative Manufacturing, Power & Propulsion, Synthetic Biology, and more.

For more information, or to register, visit: www.oai.org/NIEA-Biomimicry