



AIAA/IEEE ELECTRIC AIRCRAFT TECHNOLOGIES SYMPOSIUM

12-13 JULY 2018 | DUKE ENERGY CONVENTION CENTER, CINCINNATI, OH

The aerospace industry has set ambitious goals for the next three generations of commercial transport aircraft to accommodate rapid growth in emerging markets and ensure the future sustainability of air travel. One approach being explored to meet these targets is nontraditional aircraft propulsion using electric, turboelectric, or hybrid-electric powertrains.

Recent workshops by the IEEE and AIAA have identified the need to bring together electrical engineers and aerospace experts as the industry looks to more electric propulsion technologies for future aircraft. The AIAA Aircraft Electric Propulsion and Power Working Group, the IEEE Transportation Electrification Community, and the College of Engineering of the University of Illinois at Urbana-Champaign are collaborating to organize a new two-day symposium to address these issues. The event occurs on 12-13 July, following the AIAA Propulsion and Energy Forum.

TECHNICAL PROGRAM

The symposium will focus on electric aircraft technology across three programmatic tracks with more than 70 papers:

1. Electric-power enabled aircraft configurations and system requirements
2. Enabling technologies for electrified aircraft propulsion
3. Electric aircraft system integration and controls.



KEYNOTE SPEAKERS



Jay Dryer

Director, Advanced Air Vehicles Program
NASA Aeronautics Research Mission
Directorate (ARMD)



Edward M. Greitzer

H. N. Slater Professor of Aeronautics
and Astronautics
Massachusetts Institute of Technology



Rüdiger Thomas

Hybrid Electric Propulsion Roadmap Owner
Airbus Group



Brian Yutko

Vice President, Research & Development
Aurora Flight Sciences

SYSTEM ENGINEERING NEEDS AND CHALLENGES GENERATED BY ELECTRIFICATION OF AIR VEHICLES

PANEL:

Marija Ilic

Integrated Dynamic Systems
Massachusetts Institute of Technology

John Juhasz

Critical Infrastructure Protection and Recovery
Telepath

Troy Peterson

Model Based Systems Engineering
System Xi

John Tylko

Unique and Novel Air Vehicles
Aurora Flight Sciences

Michael Watson

Complex Systems
NASA Marshall Space Flight Center

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