SUSTAINABLE AVIATION: GLOBAL TRENDS, DRIVERS AND ACTIVITIES IN "GREEN" AVIATION TECHNOLOGIES

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ABSTRACT

This talk presents insight into some of the current and emerging trends in sustainable aviation research being conducted across the world's aviation research institutes. Current major drivers of technology development and innovation within the world of aviation include the rising demand for cleaner, quieter, faster, cheaper and safer air transportation. The quest for zero emissions and climate change have become "hot topics" in aviation. This is driving significant investment, R&D and enhancement in the field of aircraft propulsion, aircraft structures, aerodynamic design as well as air operations amongst other fields. Some of these include advancements in materials research, manufacturing technology, novel aircraft configurations as well as new propulsion concepts and technologies. Some of the advancements and trends in these domains will be presented in this talk.

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