

Achieving Sustainable Aviation

Date & Time: October 26th, 2021, 7:00-8:00 pm EST

Registration (Free): https://aiaa.zoom.us/webinar/register/WN_whqcCgkPRwOvrnsH1MJC9g

The AIAA New England Section is organizing an expert webinar session by Dr. Michael Winter, the Senior Fellow for Advanced Technology at Pratt & Whitney, Raytheon Technologies Corporation. Come and listen to the expert presentation about recent advances, competing technologies, promises, challenges, and time frames on sustainable aviation technology.

- Aerospace is fundamental to our society and economy. Emissions of CO₂ from engines and airplanes represent less than 3% of all anthropogenic contributions and are growing by more than 4% annually.
- The future is bright with new technologies that reduce fuel burn and these are being developed to be ready in time for the next generation of aircraft.
- Alternative fuels that reduce carbon intensity such as bio-fuels from sustainable sources and hydrogen, when combined with new technology can position the industry to achieve net-zero CO₂.



Senior Fellow

Advanced Technology
Pratt & Whitney, Raytheon
Technologies Corporation

<https://www.aiaa.org/detail/person/michael-winter>

Dr. Michael Winter: As the Senior Fellow for Advanced Technology at Pratt & Whitney, Michael leads the company's technology portfolio internally and represents it externally. He has served as Director of Systems & Controls Engineering (SCE) at United Technologies Corporation, a worldwide corporation supplying a broad range of high-technology products and services to the fast-growing aerospace and building industries. Leading the SCE organization, he provided UTC's business units with the Model-Based Digital Thread tools needed to deliver the complex cyber-physical systems at the core of UTC products.

In over 30 years with UTC (now RTX), Michael has made contributions working with fuel cells, lasers, and combustion & propulsion systems. As Chief Engineer for Technology at Pratt & Whitney, he led the Company's technology portfolio. He was also responsible for the development of the Pratt & Whitney Technical Career Ladder and for leading the Fellows Program, which recognizes the company's top technical experts. Earlier, Michael served at United Technologies Research Center as Director of the Flight Systems Program, with responsibility for advanced technology for Hamilton Sundstrand and Sikorsky Aircraft.

Michael holds a Doctor of Philosophy, Master of Science, and Master of Philosophy degrees from Yale University and a Bachelor of Science degree in Mechanical Engineering from Drexel University. He has authored more than 40 patents and more than 50 published technical articles.

Michael has served on the advisory board of the Engineering Schools at Embry Riddle Aeronautical University. He also served on the National Research Council Board of Assessment of the National Academies, as an Associate Fellow of the American Institute of Aeronautics & Astronautics (AIAA), and as chairman of the Aerospace Industry Association (AIA) Environmental Committee and Technical Operations Council.