Joint Chapter Meeting – October 2021 INCOSE Chicagoland and AIAA Illinois



CHICAGOLAND







Topic: Propfan Technology from the 1980's until today

Presenter: Tom Fey

Student of Propulsion Technology

Presentation Site: Remote. Online attendance only due to COVID-19.

Date: Thursday, October 21, 2021

Agenda: 6:30 - 7:00 PM CT – Announcements & Introductions

7:00 - 8:45 PM CT - Feature Presentation and Q&A

Abstract

Aircraft fuel efficiency has become the driving force for profitability in today's airline operations. The current, highly efficient high bypass and geared turbofan engines had their founding technologies developed via joint private and government initiatives of the late 1970's and 1980's. The result was the demonstrator Ultra High Bypass / Un-ducted Fan/Propfan flight engines, the General Electric GE36, Pratt & Whitney / Allison geared 578-DX, and the Russia/Ukraine geared Progress D-27 engines. In response to the current and future demand for ever more efficient engines, the European SAFRAN and partners have created, run, but not yet flown their SAFRAN Open Rotor engine. The history of the founding technologies, developmental partnerships, various design strategies, and challenges of the Open Rotor / Propfan propulsion system will be discussed.

About Our Speaker

Tom Fey is a retired research pharmacologist (drug hunter) from the suburbs of Chicago who has a life-long interest in engines and the automobiles, motorcycles, boats, trains, and aircraft they power. Tom has written articles for air racing newsletters, prototyped semi-scale electric radio-controlled aircraft, and presented talks on engine and propeller technology to the Aircraft Engine Historical Society and Oshkosh Air Venture forums, and EAA Chapter meetings. In addition to restoring WWII gunnery target drone engines to running condition, Tom enjoys researching obscure topics to reveal how they operated and how well, or perhaps how deficiently, these mechanisms performed their intended function.

Questions? For more information, go to http://www.incose.org/Chicagoland/.

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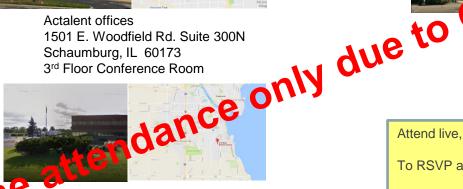
INCOSE Chicagoland Sites



Actalent offices 1501 E. Woodfield Rd. Suite 300N Schaumburg, IL 60173 3rd Floor Conference Room



ъз7, 5407 Fen Oak Dr. Madison, WI 53718 Mendota Conference Room



Oshkosh Corp (Limited to Oshkosh Employees) 370 W. Waukau Ave

Oshkosh, WI 54902

Attend live, on-line! Meeting begins at 6:30 PM CT.

To RSVP and more information, go to:

https://incosechicagoland-2021-10.eventbrite.com