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Dr. John Maris Honored with "Best Paper Presentation" Award at International Society of Flight Test Engineers Symposium for Groundbreaking Work on Dynamic Non-Linear Displays

Montreal, Canada – Dr. John Maris, Chief Executive Officer of Cert Center Canada (3C), has been awarded the prestigious *Best Paper Presentation* at the International Society of Flight Test Engineers (SFTE) Symposium for his presentation on Dynamic Non-Linear Displays (DNLD).

Dynamic Non-Linear Displays (DNLD) represent a significant advancement in cockpit display technology, developed to reconcile the often conflicting requirements of electronic flight instrument system (EFIS) and head-up display (HUD) tape designs—namely dynamic legibility, wide scale range, and precise resolution.

Traditional tape-style displays, such as altimeters, typically constrain the visible analog range to maintain fine resolution, limiting pilot situational awareness. DNLD overcomes this limitation. At Technology Readiness Level 7 (TRL-7) flight evaluations, DNLD demonstrated the ability to provide:

- **Full-scale linearity** in the fine-control region
- **Uninterrupted legibility** at extreme aircraft rates
- **Continuous visibility** of underlying terrain and reference points
- **Complete presentation** of feasible ranges, such as 360° compass coverage

Unlike conventional displays, DNLD enhances all three levels of Situational Awareness defined by Endsley—perception, comprehension, and prediction—helping pilots better interpret, anticipate, and respond to real-time flight data.

The technology has already been successfully trialed by Canada's National Research Council and is now ready for broader flight and simulator testing. Future applications for DNLD include head-up displays and electronic standby instrument systems, with the potential to reshape cockpit display design and pilot interface standards worldwide.

"This recognition from the SFTE is not only a personal honor, but also an acknowledgment of the importance of advancing pilot-centric display technologies that directly improve flight safety and efficiency," said Dr. Maris. "Dynamic Non-Linear Displays address long-standing challenges in flight instrumentation, and I look forward to further collaborations to bring this innovation into operational service."

The award underscores Cert Center Canada's ongoing commitment to advancing aviation safety and innovation through rigorous research, development, and certification expertise.

About Cert Center Canada

Cert Center Canada (3C) is a Montréal-based, independent flight test and certification company delivering services to aerospace manufacturers, operators, and regulators worldwide. 3C combines deep engineering and operational experience with a strong focus on **R&D** and **IP development**, tackling some of the industry's most complex flight test challenges and creating next-generation aviation technologies.

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