

Press Contact:
Alistair Chapman
Director of Marketing
Marinvent
Alistair.chapman@marinvent.com



PRESS RELEASE
For immediate release

Marinvent Announces Successful Delivery to Government of Canada of its APM Product

Montreal, Canada, April 2, 2019 – Marinvent is pleased to announce the successful delivery of its Airfoil Performance Monitor product (APM) to the Government of Canada following extensive independent flight testing by the National Research Council under the Build in Canada Innovation Program (BCIP).

APM monitors and displays the margin to stall of an airfoil and detects the real-time effects of icing, contamination, and degradation on the lifting surface of any airfoil and in all phases of flight.

The recently-concluded flight evaluations conducted independently by NRC-FRL conclusively demonstrated the following unique capabilities of APM:

- Provides stall warning and backup airspeed indications and is completely independent of all aircraft-side inputs except power. (it needs no airspeed, air data, angle-of-attack, or flap position inputs).
- Gives the correct stall warning margin, even with contaminated (iced or otherwise degraded) airfoils.
- Correctly detects compressibility stalls at high altitude.
- Provides tail stall warning which is particularly relevant to a number of UAV platforms.
- Provides correct diagnosis of contamination early during the takeoff roll (Air Florida Flight 90, Arrow Air, and Dryden, among others).
- Provides real-time data enabling significantly reduced fuel consumption and brake wear and enabling better predictive maintenance scheduling, helping to pay for itself by reducing aircraft operating costs.

“APM is a mature product having been successfully tested on several Part 25 jet and turboprop aircraft, as well as numerous Part 23 light aircraft and business jets”, said Dr. John Maris, President of Marinvent. “It is available for installation today. The Canadian government is our first customer under the BCIP program, and we have

also made our first forays into the UAV market, which desperately needs this technology particularly for Canadian winter operations”.

Dr. Maris, whose doctoral thesis “AN ARCHIVAL ANALYSIS OF STALL WARNING SYSTEM EFFECTIVENESS DURING AIRBORNE ICING ENCOUNTERS” led to the final development of APM, has made his academic life’s work the study of the relationship between aircrew and angle of attack/stall warning systems. He is one of the world’s leading authorities on this subject, which is particularly pertinent currently, and is also a Transport Canada Test Pilot DAR. Dr. Maris is an Adjunct Professor at Concordia University in Montreal, Canada as well as being President of Marinvent Corporation and inventor of APM. In recognition of the potential impact of APM, SAE named APM as the 2017 Aerospace & Defense category winner in their *Create the Future* competition:

<https://contest.techbriefs.com/2017/entries/aerospace-and-defense/8422>.

About Marinvent – Marinvent is a privately held Canadian company, founded in 1983. Marinvent is headquartered on the outskirts of Montreal, the leading aerospace center in Canada and one of the largest aerospace centers in the world. Marinvent provides consulting, services, training, tools and IP to reduce customers’ program/product risk, cost and schedule and to help them innovate quickly. Its engineers, experience, TCCA DARs, flying avionics test bed, research simulator and IP make it a reliable and trusted partner for the planning and management of projects, regardless of size and complexity. Marinvent’s customers include aircraft OEMs, integrators, tier 1s, tier 2s and Government customers around the world. Marinvent prides itself of helping its customers bring their products to market and has a stellar track record of doing exactly that. As a result, Marinvent has won numerous awards in recognition of that fact. For more information, visit www.marinvent.com
