

## ITPS December 2021 Newsletter

2021 has been an exciting and challenging year. Despite the ongoing pandemic, the International Test Pilots School has experienced unprecedented growth whilst completing many firsts. ITPS is a flight test organization first and foremost and we have been active across the spectrum of flight test activities. From supporting the Natural Icing Flight Trials for the COMAC C-919 airliner, to preparing for first flight of our first variable stability aircraft and our 5th generation Surrogate Training Aircraft, to advising Korean Aerospace Industries on the upcoming flight test for the KF-21 Boromae fighter, to conducting the certification flight tests of the AC-352 (H-175) medium helicopter, ITPS is fully involved in actual flight testing.

Lessons learned from these projects are passed on in the education we deliver to our diverse student classes. ITPS's motto of "Innovation and Competence" is one we live by, and I am proud of our achievements on that front, which include the introduction of Virtual Reality in the Graduate Course curricula, including new and improved modules for In-Flight Refuelling, Stores Certification, Helmet Mounted displays and making full use of our Advanced Aircraft Simulation Centre. Our instructor cadre has grown and continues to grow as we gear up for the January 2022A course and the prospect of an unprecedented forty-one Graduate Course students through 2022.

### Master of Science in Flight Test Engineering (MS FTE)

ITPS can now offer an Ontario Ministry of Education approved Master of Science in Flight Test Engineering (MS FTE) to students enrolled in our one-year graduate Test Pilot or Flight Test Engineer (Military) course. The course, available in FW or RW, fulfills all the requirements of the Master's program, so eligible students are automatically granted the MS FTE upon successful graduation. As an MoE approved credential the ITPS MS FTE is fully equivalent to other Canadian University degrees, recognized world-wide.

Students who are eligible for admission, but attend programmes shorter than one year (example: EASA courses), can still enroll and gather internationally recognized academic credits to transfer towards other post-secondary programmes. The MS FTE may also be completed later through a combination of in-person and remote studies. Please get in touch with ITPS for admission criteria and a prospectus.

### 10th Annual Flight Test Seminar

The International Test Pilots School is celebrating ten years of this celebration of flight testing. The seminar is an opportunity to share present, past and future flight test-related subjects in addition to providing valuable networking opportunities within the international aerospace industry and air arms.

Thursday, December 16, 2021 ~ 10:00 am to 2:30 pm (EST)

Friday, December 17, 2021 ~ 10:00 am to 2:30 pm (EST)

[Register Now](#)

### ITPS wins its largest contract in history with TAI

The International Test Pilots School is delighted to announce that it has been selected by Turkish Aerospace Industries to train test pilots and flight test engineers for its Hurjet, TF-X and Heavy Attack Helicopter programs. The award further cements a long-standing relationship dating back to 2013 when ITPS provided training for the flight test team of the Hurkus turboprop military trainer. Fourteen Graduate Course students will be joining the January 2022A course, and a further eight will join the June 2022B course. The TAI contract is the biggest flight test training contract in ITPS history, demonstrating further recognition of the excellence of the ITPS programs. The award was confirmed at the Society of Experimental Test Pilots Symposium, pictured below are Chief Helicopter Test Pilot for TAI, Mr Arif Ates (ITPS Graduate TP 2018), ITPS President Giorgio Clementi, Helicopter Flight Tests Manager for TAI, Gohkan Virvan (ITPS Graduate TP 2018) and ITPS Business Development Manager, Rene Changtin.



### New Assets to enhance our UAS and Flying Qualities curricula

Our Manned Remotely Piloted Aircraft (MRPA) took its first flight in June 2021. This MALE UAV surrogate took to the skies equipped with the sensor turret and the speed envelope was opened to 135 KIAS. Since then, it has been fully cleared with Transport Canada for flight test operations. Linked to the representative Ground Control Station, students can now fly dedicated UAV test missions including surveillance missions using the on-board electro-optic sensors.



Our Adaptive Handling Qualities Aircraft (AHQA) is airborne! Following a post-modification maintenance test flight, the aircraft is finally ready to commence the flight test programme for the Variable Stability System. AHQA is a testbed for the system to be installed in our L-39VSS aircraft and it will provide valuable insights into the system's capabilities and the instructor and student's controls and procedures. It will also provide a low-cost platform for flying qualities and FBW systems testing instruction. Kudos to our Engineering team for bringing this project to flight, whilst also progressing numerous other projects aimed at enhancing the flight test training programs at ITPS.



### 5STA Displays and Systems Evaluation

Graduate Course students had the opportunity to be part of the test team for our 5th gen. Surrogate Training Aircraft (5STA). The aircraft equipped with an advanced avionics suite representative of latest fighter designs, is undergoing ground tests prior to commencing the test campaign to earn its Transport Canada Special Permit to Fly. Students evaluated the Large Area Display and Helmet Mounted Display installation and provided their recommendations to the Engineering team who are currently readying the aircraft for the flight test campaign.



## Advanced Aircraft Simulation Centre News

The International Test Pilots School (ITPS) continues to invest in simulation adding to the capabilities of its Advanced Aircraft Simulation Centre. ITPS is pleased to announce that it has acquired a high-fidelity engineering simulator based on the Entrol H39 - EASA FNPT II MCC / FAA FTD Level 5 simulator.

Entrol is a Spanish manufacturer of FNPT and FTD simulators since 2005, having sold over 90 simulators in more than 30 different countries, with an extensive portfolio of 20 different helicopters and airplanes with in-house technology. Entrol's complete in-house capability made it the ideal partner to develop a custom solution for ITPS with unique features particularly valuable for test pilot training.

The International Test Pilots School (ITPS) is an internationally recognised EASA Approved Training Organisation of flight testing for military and civil organisations, training hundreds of students from more than 25 countries. The addition of this device will enhance the rotary wing flight test training curriculum, complementing the over 110 hours of helicopter flight time flown by students during the Graduate Rotary Wing Flight Test Course.



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## Flight Safety Audit

Flight test safety is paramount at the International Test Pilots School. We are proud of our twenty-year record of safe training operations in Canada. Not resting on our laurels and in light of growing flight test operations and training, Flight Test Safety Consultants Inc. has been commissioned to conduct an independent audit of the ITPS operation.

Led by Rodrigo Huete, highly experienced test pilot, Fellow of The Society of Experimental Test Pilots (SETP) and Director Emeritus of the Flight Test Safety Committee (FTSC), accompanied by Jim Richmond, SETP Fellow and former Chief Test Pilot of the FAA, President of AACS and Director Emeritus of the FTSC, Terry Lutz, SETP Fellow, former Safety Advisor to the Head of Test and Integration at Airbus, and Director Emeritus of the FTSC as well as Walter Wally Istchenko, former Head of the National Aircraft Certification Flight Test Office at Transport Canada. The team will audit all aspects of ITPS flight test operations, maintenance and safety management.

Managing flight test safety poses particular challenges. This illustrious team of flight test professionals will provide us with valuable insights into how we are doing and how we can improve to ensure our staff and students are safe.



The International Test Pilots School wishes all our staff and students Happy Holidays and a Happy New Year.

We look forward to an exciting new year of growth with new students and staff as we continue to innovate with technology and provide exceptional flight test education.