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International Flight Test News



Automatic Ground Collision Avoidance System Team to Receive the 2018 Robert J. Collier Trophy

The National Aeronautic Association (NAA) announced that the Automatic Ground Collision Avoidance System (Auto GCAS) Team as the recipient of the 2018 Robert J. Collier Trophy for successfully completing a rapid design, integration, and flight test of critical, lifesaving technology for the worldwide F-35 fleet. The Collier Trophy is awarded annually for the greatest achievement in aeronautics or astronautics in America, with respect to improving the performance, efficiency, and safety of air or space vehicles, the value of which has been thoroughly demonstrated by actual use during the preceding year. The Collier Trophy Selection Committee, comprised of 30 aviation and aerospace professionals, convened on April 4, 2019 to hear presentations from 11 nominees. [National Aeronautics Association](#)



Scaled Composites Experimental Model 401 ferried from Mojave, CA to Pax River, MD

Scaled Composites Model 401, an exotic, stealthy jet aircraft with a dorsal air inlet, trapezoidal "Lambda" wings, chined edges, and a big V-tail has flown from the company's base in Mojave, California across the country to NAS Pax River. The long trip comes 18 months after the type's first flight. [The Drive](#)

Chapter Events



X-35 to F-35 A Pilot's Perspective

Art "Turbo" Tomasetti (F)

Tuesday, 16 April 7:00pm
UNT Health Science Center
Fort Worth, TX



SFTE Tech Council Webinar

Flight Test Safety Lessons Learned

Part 2 of 2

17 April, 1:30-2:30 pm EST

Challenger CL-600 - Jim MartinSM

B-1A - Otto Waniczek

G-650 - Ryan Stanford^M

- Open to all government, industry, individuals, and societies (e.g. AIAA, SAE, AHS)
- Sessions will be recorded and shared openly for testers to review anytime
- Content can be freely used for any other venue and to spur internal discussions that cannot be openly shared on our venue
- Recurrent training that supplements basic training in FT safety, crew resource management, FAA orders, etc.
- Public content so may not contain certain details available in closed-door conferences

May 2019 Part 3 Session with more material being planned (Ranger 2000, etc.)

Zoom Meeting

<https://zoom.us/j/567289965>

+16699006833,,945165761# US (San Jose)

+16468769923,,945165761# US (New York)

Meeting ID: **567 289 965**

Find your local number: <https://zoom.us/u/abECw7AFW>



SFTE 50th International Symposium

10-14 June 2019

Toulouse, France

In conjunction with the [European Test & Telemetry Conference \(ETTC\)](#) with admission allowing attendance to both events

Website: <http://www.sfte-symposium-2019.com/en/index.html>

Symposium Short Courses

Hotel Mercure Compans

Monday June 10

Courses 1 and 2, in parallel, from 9am to 12am

Courses 3 and 4, in parallel, from 1:30pm to 4pm

Course 1 : Control Room Training: From Zero to First Flight

Monsieur Brian Maisler^M (M)

Scaled Composites Test Pilot

The course primarily targets towards standing up a control room for a prototype first flight and envelope expansion program:

- Control room layout and configuration
- Determining how many and what types of engineering disciplines are required
- Scoping the training plan based on the experience level of the team
- Scope and use of simulation as a training aid
- Setting up scenarios for effective training
- Typical issues encountered during training

Course 2 : Airbus Fly-By-Wire : An introduction to Airbus Electrical Flight Control System

Monsieur Stephane Vaux

Airbus Flight Test Engineer

The course will introduce the different facets of Airbus Electrical Flight Control System deployed on the Airbus family of aircraft:

- General principles
- System architecture
 - Computers
 - Actuators
 - Hydraulic and Electrical powering

- Flight control laws and flight envelope protection

Course 3 : Military Standards for Flying Qualities of Piloted Aircraft

Dr. Panos VitsasSM

ITPS Canada (International Pilot School) Instructor FTE

The purpose of the course is to introduce the current flying qualities standards used for military piloted aircraft. The course will start with standard flying qualities definitions and will review the historic progression of flying qualities specifications. The course will go briefly through past specifications like the MIL-F-8785, but will mostly focus on the latest publicly available version of MIL-STD-1797 which is applicable to augmented flight control system (fly-by-wire) aircraft. The training class will go through the MIL-STD-1797 document and demonstrate its use breaking down the different aircraft classifications, flight phase categories and compliance levels.

Course 4 : Introduction to Artificial Intelligence techniques (Machine Learning and Deep Learning)

Monsieur Lucas Garcia

Mathworks

Artificial Intelligence (AI) has become increasingly present in our lives: medical diagnosis, voice recognition, weather forecasting, driving assistance systems, etc. The underlying mathematical models in AI (Machine Learning and Deep Learning) can achieve high levels of accuracy for decision making both in Engineering and Business. In this course, we will address the problem of data preparation and manipulation, often the most time-consuming task for engineers and scientists. Moreover, we will thoroughly examine different Machine Learning and Deep Learning techniques in MATLAB that will allow to obtain meaningful information from tons of logged data, frequently too large to fit into memory.

Scientific Program

Technical papers selected for presentation in Toulouse:

<u>Author</u>	<u>Organisation</u>	<u>Position</u>	<u>Title</u>
Joao O. Falcao ^M	International Test Pilot School Canada Ltd	Instructor	Successful examples of Design of Experiments methodology applied to Helicopter Performance Flight Tests
Dominique Fournier ^M Antoine Van Gent SM	Airbus Helicopters	Head of Development Flight Tests	Airbus Helicopters (AH) Flight Test Safety Management System
Philippe Bagur ^M	Airbus Helicopters	Vice-President Flight and Engineering Test Centre	NH90 Flight Tests
Brian Kish ^M	Florida Institute of Technology	Chair of Florida Tech's Flight Test Engineering Program	A New Definition of "Entry-Level" Flight Test Engineer Based on Training and Education at the University Level

Reid Mccaull Rebecca Hattery ^M	AeroTech Inc	Rebecca - manager of the test engineering team at AeroTEC, Inc. Reid - Flight Test Engineer.	Flight Test as a Service
Ryan Turgeon ^M LT Jonathan Larsen	Naval Air Warfare Center Aircraft Division	Air vehicle flight test and evaluation division	Rapid-Paced T-45 Physiological Episode Flight Testing
Brian Maisler ^M	Scaled Composites	Test Pilot	Flight Test Results of Turning Regressions for Angle of Attack Dependent Air Data Error
Dilli Babu Pradipta Biswa	Aircraft Systems and Testing Establishment, Indian Air Force Indian Institute of Science	Wing Commander M Dilli Babu - Flight Test Engineer Pradipta Biswas - Assistant Professor at the Centre for Product Design and Manufacturing and affiliated faculty at the Robert Bosch Centre for Cyber Physical Systems of Indian Institute of Science	USING EYE GAZE TRACKER TO AUTOMATICALLY ESTIMATE PILOTS' COGNITIVE LOAD
Major Bruno Giordano de Oliveira Silva Lieutenant Gustavo Henrique de Mendonça Ferreira Filho Nelson Paiva Oliveira Leite	Embraer	Major Bruno Giordano de Oliveira Silva- Flight Test Engineer Lieutenant Gustavo Henrique de Mendonça Ferreira Filho - Technical Support Division of IPEV Nelson Paiva Oliveira Leite - program manager for the development and integration of advanced flight test tools for IPEV.	Comparative Assessment of Tower Flyby, Orbits, and Cloverleaf Air Data Calibration Methods
Captain Riley Livermore Captain Richard Agbeyibor ^M	USAF		Four key competencies for safe, effective, and efficient flight testing of autonomous aircraft systems
Michael L. McDaniel ^M	Naval Air Warfare Center, Aircraft Division, NAS Patuxent River, MD 20670	Technical Fellow	Testing Highly Autonomous Unmanned Aircraft

Rudolf BISCHOFF ^M	Airbus Defence and Space	Flight Test Engineer	Recent developments in flight test of unmanned vehicles at Airbus Defence & Space Germany
Brian M. Jones ^M Hunter J. Bloch ^M	The Boeing Company	Flight Test Engineer	DEALING WITH THE UNEXPECTED: A CASE STUDY FROZEN IN TIME
Tuan Do	Airbus	Lead FTE	How an Icing campaign for an A380 Flying Test Bed resulted in an AOG in a remote area
Paul Riley ^M	Gulfstream	Flight Test Engineer	The Importance of Engine Maturity: Why Extensive Flying Testbed Campaigns Are Critical to Aircraft Certification Programs
Darren G. McDonald SM , Boeing Hugues Van Der Stichel ^M , Airbus Philippe Genissel, Airbus	Airbus and Boeing	Darren G. McDonald - FTE Hugues Van Der Stichel - Test Pilot Philippe Genissel - Flight Test Specialist	A Modern Day Saga: How Flight Test Returned to Iceland
Zach MacCarley	Mitsubishi Regional Jet	Test Pilot	Flight Test of a Japanese Airplane in the American Northwest
Philippe FOUCAULT	Airbus	LFTE	Testing an aircraft in the world widest climatic chamber
Israel López Herreros	Airbus Defence and Space	Engineer in Airbus Defence and Space / Flight Test Methods and Tools	C130 Reference Jumps. Spain-France-Belgium Cooperation
Jonas Rydberg ^M Berne Strand	SAAB	Berne Strand - Flight test engineer. Jonas Rydberg - flight test engineer	The international collaboration challenge – with respect to a flight test engineer of the Gripen E
Philippe Seve	Airbus	Flight Test Engineer	BLADE

Floris Bremmers	NLR	Development of flight test instrumentation.	Multidisciplinary design- and validation challenges of an aircraft water SCOoping DEVice
Jawanza Bassue ^M Conor Denton ^M	Gulfstream	FTE FTE	Immersive Reality in the Flight Test Environment
Didier Poisson (PEXA THALES) Patrice Malot ^M (LFTE THALES)	Thales	Didier Poisson - Experimental Test Pilot Patrice Malot – Lead Flight Test Engineer	Flight testing a Head Worn Display - The challenges of introducing novel avionic equipment in civil aircraft

Social Program

Tuesday

June 11th

Welcome Reception

Wednesday Evening

June 12th



Guided Tour and Reception Downtown Toulouse



Thursday Afternoon

June 13th

Aeroscopia Museum



Thursday evening

June 13th

Gala dinner

Restaurant "Les Ecuries de la Tour"



Friday Morning

June 14th

Airbus Visit



Registration

Now OPEN

Registration fees, VAT included	Registration before April 15, 2019	Registration after April 15, 2019
Non Member fee	650 €	700 €
Members fee	600 €	650 €
Speaker fee	500 €	550 €
Members iPay fee*	300 €	300 €
Short courses (Per course, Max 2 courses)	40 €	40 €
Accompanying person : Aeroscopia Museum & Gala Dinner	90 €	90 €
Accompanying person : Guided tour and reception downtown Toulouse	40 €	40 €

*Limited number of seats for Members attending on their own funds. Please contact SFTE-symposium-2019@inp-toulouse.fr to provide your justification before registration.

Tickets for Paris Airshow Trade Days Available

Tickets for 17-20 June trade days are now available

<https://siaepro.mybadgeonline.com/Pro-en-US>

https://www.siae.fr/en/general_info/prices.htm

A Few Exhibitor Spots Still Available

The SFTE symposium will be held in conjunction with the [European Test and Telemetry Committee](#) (ETTC) conference with a common exhibit hall. A few booths are still available for 3500€ each.

Contact Yves Saint-Upéry at yves.saint-upery@airbus.com to reserve your spot!



Workshop

6-9 May 2019

Charleston Marriott Hotel

Event Coordinator Mr. Peter Donath^F

pdonath@pacbell.net

Registration Now Open

Reservations can be made on-line or by calling hotel directly (843)-723-3000 by 15 April.

Please mention Flight Test Safety Workshop to ensure group rate of \$207 per night.



SFTE Award Nominations

[SFTE Award Info](#)

Scholarship Nominations

Due 22 April

Annual scholarship awards to children of members and deserving students. See the Website page for more info - <http://www.sfte.org/scholarships/>

[Apply for Scholarship](#)

Scholarship Donations

SFTE is now accepting donations from Chapters, Companies, and Individuals. All chapters are strongly encouraged to support this program.

Contact SFTE Executive Director Samantha DeLano at edir@sfte.org to arrange your donation.

Committed Chapter Donations

Antelope Valley

Coastal Empire

Emerald Coast

Europe

Los Angeles

North Texas

Pax River

St. Louis

Individual Donations

David Mitchell^M

Los Angeles Chapter

Fellow Nominations

Due 26 April

Fellow Nominations send to SFTE HQ: edir@sfte.org



Jesualdo Martínez – New Award

Due 21 May

Please send nominations to European Chapter President Jesús Javier Fernández Orío at oriojj@inta.es

Corporate Membership

Join SFTE as a Corporate Member!

Receive Complimentary Individual Memberships, Advertisements, Job Ads, and Member Discounts

Thank You Corporate Member Renewals!



Individual Membership

NOTE: Sorry, but with the new registration system Autopay renewals will no longer be available. If you had autopay set up, you received a notice to that effect.

SFTE will send you a reminder of when your membership will need to be renewed.

50th Anniversary Member Renewal Items for 2019!

Make sure you renew your membership this year to receive the following member items to celebrate the 50th Anniversary of SFTE.

Don't worry, if you would like to renew early to receive your items early your membership will be extended from its annual due date.



50th Anniversary Patch for all Members

Patches are in at HQ!

The special commemorative patch designed by the Seattle Chapter, originators of SFTE 50 years ago, will be going out to all renewals in 2019 (and lifetimes/Fellows).



50th Anniversary Member Certificate for Members, Senior Members, and Fellows

This classic format from the beginning of SFTE returns but with the special 50th Anniversary logo designed by the SFTE Coastal Empire Chapter.

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SFTE Member Level denoted as Exponent (SETP in parenthesis)

ST - Student Member

AL – Affiliate Member

AS – Associate Member

M – Member

SM – Senior Member

F – Fellow

(HF) – Honorary Fellow

(PAM) - Provisional Associate Member

For more info on SFTE member grades & to apply for upgrade:

<http://www.sfte.org/membership-individual/>

2019 Calendar

15 April

FTWSW Hotel Registration Deadline for Marriott:

<http://www.setp.org/symposium/meetings/workshop/>

Early Registration ends for Toulouse

17 April

SFTE Tech Council Webinar Part 2 of 2 - 1-2:30 pm EST

18 April

South Florida Chapter – Monthly Meeting at Twisted Trunk on PGA

18-19 April

SETP/SFTE Central Section Symposium

SFTE featured presenter as part of the Wichita Space Initiative lecture series at Wichita State University

22 April

Nominations Due for SFTE Scholarships

26 April

North Texas Chapter – Monthly Meeting at UT Dallas

3 May

North Texas Chapter - 1st Friday at the Flying Saucer, Fort Worth, TX

6-9 May

[Flight Test Safety Workshop](#) Charleston, South Carolina

16 May

South Florida Chapter – Monthly Meeting at Twisted Trunk on PGA

21 May

Nominations due for Jesualdo Martínez Award to European Chapter

24 May

SETP Canadian Chapter Sectional, Canada Air and Space Museum Ottawa, ON

7 June

North Texas Chapter - 1st Friday at the Flying Saucer, Fort Worth, TX

13 June

South Florida Chapter – Monthly Meeting at Twisted Trunk on PGA

10-14 June

SFTE 50th International Symposium, Toulouse, France



17-23 June

[Paris Airshow](#)

5 July

North Texas Chapter - 1st Friday at the Flying Saucer, Fort Worth, TX

12 July

South Florida Chapter – Monthly Meeting at Twisted Trunk on PGA

6-7 September

SFTE/SETP/AIAA Southwest Aerospace Symposium, Keynote Charlie Bolden, UT Arlington, TX



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Have some Flight Test news or Chapter Events to share?

Just send as a reply to this email. Make sure it is public-released information and/or reference a news release. Include names of SFTE members contributing to the events.