

**23<sup>rd</sup>**

## SFTE EC Symposium

11-13 June 2012 – Amsterdam



### PROGRAMME 11 JUNE

**Monday 11<sup>th</sup> June 2012 – NLR Auditorium**

Registration **08:30 – 09:30**

Welcome coffee – Exhibition opening **09:30 – 10:00**

#### Plenary session (10:00 – 12:00)

- **Opening session**  
Chair of the Netherlands Association of Aeronautical Engineers – F. Abbink **10:00 – 10:30**
- **Keynote 1**  
Lockheed Martin Chief Test Pilot – A. Norman **10:30 – 11:15**
- **Keynote 2**  
Royal Netherlands Air Force Chief Test Pilot – Lt-Col T. Haringa **11:15 – 12:00**

**Lunch – Buffet** **12:00 – 13:30**

#### Session 1 “The Flight Test Engineer on the Edge” – Chair: P. Broos

1. Flight Test Engineer Station for A350 aircraft.  
AIRBUS Operation SAS – Y. Marcet **13:30 – 14:00**
2. The Gripen 39-7 Demonstrator - Efficient Run-up of a Test Aircraft.  
Saab Aeronautics – Bengt Karlstrand – J. Grändås **14:00 – 14:30**
3. Airworthiness Certification for U.S. Navy Flight Testing: Local Application of a Global Process.  
United States Navy (USN) , Patuxent River – Dr. T. Schoppert & M. Landon **14:30 – 15:00**

**Break** **15:00 – 15:30**

4. Procurement and instrumentation of a helicopter suitable for TP and FTE training at ETPS.  
Empire Test Pilots’ School (ETPS) – K. Emerson **15:30 – 16:00**
5. Task and display variations of the workload buildup flight test technique.  
German Aerospace Center – I. Niewind & F. Opel **16:00 – 16:30**
6. A variety of lessons learned over 30 years of fast-jet weapon flight testing.  
K. Edwards **16:30 – 17:00**

Reception & Amsterdam Canal Tour **17:30 – 19:30**

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### PROGRAMME 12 JUNE

**Tuesday 12<sup>th</sup> June 2012 – NLR Auditorium**

#### Session 2 “Programmes finding the Limits” – Chair: Ch. Buck

1. V-22 Osprey Flight Test – Uncharted Flight Test Territory.  
NAWCAD V-22 Developmental Test Team – T. Strand 09:00 – 09:30
2. Air to Air Refueling Flight Test involving a Embraer 145XR Regional Jet Modified.  
Embraer – A. Bedo 09:30 – 10:00
3. Synthetic jet fuel ground and flight test program.  
Delft University of Technology (TUD) – T. Sniijders & J. Melkert 10:00 – 10:30

*Break* 10:30 – 11:00

4. Technical Clearance of a Tanker-Receiver couple.  
Airbus Military – C. González Gómez 11:00 – 11:30
5. Volcanic Ash Observation Flights, 2011 and beyond.  
National Aerospace Laboratory NLR – A. Karwal 11:30 – 12:00
6. Flight Testing of a Surrogate Unmanned Aerial Vehicle at the National Test Pilot School.  
National Test Pilot School (NTPS) , USA – L. Ingham 12:00 – 12:30

*Lunch – Buffet* 12:30 – 14:00

#### Session 3 “Technology setting the Limits” – Chair: M. de Hoon

7. Testing and development of a new warning system for low G-suit pressure in JAS 39 Gripen.  
Saab Aeronautics – J. Sjöstrand & Ch. Berglund 14:00 – 14:30
8. In-flight Lightning Damage Assessment System - Analysis of first flight data and system definition.  
National Aerospace Laboratory NLR – A. de Boer 14:30 – 15:00
9. Instrumentation of an Aerial Platform for Flight Testing Education purposes.  
Instituto Nacional de Técnica Aeroespacial (INTA) – R. González Armengod & J.J. Fernández Orío 15:00 – 15:30

*Break* 15:30 – 16:00

10. Design and Certification of a Fly-By-Wire System with Minimal Impact on the Original Flight Controls.  
Delft University of Technology (TUD) – P.M.T. Zaal & D.M. Pool & F.N. Postema & A.C. in ’t Veld & M. Mulder & M.M. van Paassen & J.A. Mulder 16:00 – 16:30
11. Challenges and Solutions for Complex Gigabit FTI Networks.  
Curtiss-Wright Controls Avionics & Electronics – N. Cranley 16.30 – 17:00

**SFTE EC Annual Business Meeting** 17:00 – 17:30

**Symposium Dinner at the “West Indisch Huis” (aperitif starting at 19:00)** 20:00 – 23:00

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### PROGRAMME 13 JUNE

**Wednesday 13<sup>th</sup> June 2012 – NLR Auditorium**

#### Session 4 “Systems on the Edge” – Chair: J.J. Fernández Orío

1. X-47B: Taxi Testing an Unmanned, Carrier-Based, Prototype Aircraft.  
Unites States Navy (USN) – M.J. Harris & P.M. Dougherty & B.L. Jones & LCDR B.J. Loustaunau  
09:00 – 09:30
2. Low cost air data computer for UAV in flight experimentation.  
Centro Italiano Ricerche Aerospaziali (CIRA) – L. Garbarino, N. Genito, V. Baraniello, E. De Lellis, A. Vitale  
09:30 – 10:00
3. Innovations of Flight Inspections for Instrument Landing Systems in the Netherlands  
National Aerospace Laboratory NLR – M. Stuij  
10:00 – 10:30

*Break* **10:30 – 11:00**

4. Risk Mitigation for a Flight Test Program to Transition an On-Orbit Operational Satellite to a Multi-Mission Ground System Architecture.  
Space Development and Test Directorate, Kirtland Air Force Base – M. Nayak  
11:00 – 11:30

**Awards & Closing speeches** **11:30 – 12:00**

*Lunch – Buffet* **12:00 – 13:00**

**Technical Tour: NLR Test Facilities Flevoland** **13:00 – 18:00**



NLR premises in Amsterdam



NLR test facility in Flevoland