

CONTINENTAL BREAKFAST

7:30am - 8:30am, Thursday, 25 September 2014
Sequoia Foyer

OPENING CEREMONIES

Sequoia Ballroom
8:30am - 8:45am, Thursday, 25 September 2014

General Chairman:
Colin Miller (AF), Gulfstream Aerospace

Symposium Chairman:
Robert Rowe (AF), Lockheed Martin

SESSION I

8:45am - 12:15pm, Thursday, 25 September 2014
Chairman: Troy Johnson (M), Northrop Grumman

8:45am - 9:15am
“AV-8B Speed Brake Loads and Vibration Test - Trust But Verify”

Maj Douglas Rosenstock, USMC (M)
Capt Aaron Frey, USMC (PAM)

9:15am - 9:45am
“Contact! Risk Management Lessons Learned From the Navy AAR Program”
David Culbertson (AF), Calspan Corporation

9:45am - 10:15am
“Boeing 787-9 Compliance Testing Results”
Mike Bryan (AF), The Boeing Company
Nikos Mills, The Boeing Company

10:15am - 10:25am
“Academic Bridge to the Aerospace Industry Update”
Bill Connor (AF), SETP Foundation

10:25am - 10:45am - Coffee Break

10:45am - 11:15am
“Who Hacked My Airplane? Cyber-Vulnerability Testing For Aerospace Systems”
Lt Col Sean Borrer, USAF (M)

11:15am - 11:45am
“Inclusion of Departure, Abort and Recovery Maneuvers During Instrumented Helicopter Aerobatic Display Envelope Expansion”
Rich Lee (AF), Boeing (Ret)

11:45am - 12:15pm
“Flight Testing the Titanic: The Loss of the R101 Airship”
Dr. Guy Gratton (M), Brunel University

12:15pm - 2:00pm LUNCH - No formal luncheon is scheduled

SESSION II

2:00pm - 5:00pm, Thursday, 25 September 2014

2:00pm - 2:30pm
“Valid Anthropometric Data for Aircraft Design”
Dr. Robert Joslin (AF), FAA

2:30pm - 3:00pm
“An Analysis of Inadvertent Deep Stall Encountered in ARJ21-700 Flight Tests”
Peng Zhao (M), Chinese Flight Test Establishment

3:00pm - 3:30pm
“Surfing Aircraft Vortices for Energy (SAVE)”
Maj Carl Beckey, USAF (M)
Michael Sizoo (M), The Boeing Company
Stefan Bieniawski, The Boeing Company

3:30pm - 4:00pm - Coffee Break

4:00pm - 4:30pm
“CH-53E Advanced Threat Warner Live Fire Testing”
Maj Robert Buck, USMC (PAM)

4:30pm - 5:00pm
“Catching Fire: The Least of Four Evils”
Maj James Hayes, USAF (PAM)
Capt Drew Tullson, USAF

CONTINENTAL BREAKFAST - Sequoia Foyer
7:00am - 8:00am, Friday, 26 September 2014

SESSION III
8:00am - 11:30am, Friday, 26 September 2014
Chairman: Nils Larson (AF), NASA

8:15am - 8:45am
“Analysis of the Variables Involved in Crosswind Campaigns with STAMP”
Maj Diogo Silva Castilho, Brazilian AF

8:45am - 9:15am
“AgustaWestland AW609 Civil Tiltrotor All-Engines-Inoperative Flight Test Results”
Dan Wells (AF), AgustaWestland
Paul Edwards (M), AgustaWestland

9:15am - 9:45am
“Optimization of F-2 Flight Control Law For Aerial Refuel”
Maj Kazuhiko Kakoi, JASDF (M)
Maj Satoshi Hiratsuka, JASDF (M)
Capt Koji Miyoshi, JASDF

9:45am - 10:00am - Coffee Break

10:00am - 10:30am

“Landings You Can Walk Away From: Predicting F-16 Gear Fatigue Life”
Maj Matt Russell, USAF (M)
Steve Hall, Dept. of the Air Force

10:30am - 11:00am
“Scorpion Helmet Mounted Cueing System - Using Flight Test To Provide More Capability, Faster, For Less Cost”
Paul Mancini, Thales VISIONIX
Robert Atac, Thales VISIONIX

11:00am - 11:30am
“68 Years of Continuous Development”
Steve Roberts, Martin-Baker Aircraft Co. Ltd

LUNCHEON
Sequoia Ballroom
12:30pm - 2:00pm
Guest Speaker
Dr. Mark Lewis

“Flight Test in the Hypersonic Regime: Relearning What We Once Knew”

SESSION IV
2:30pm - 5:15pm, Friday, 26 September 2014

2:30pm - 3:00pm
“Lessons Learned From Automatic Air Collision Avoidance System Flight Testing”
Maj Casey Richardson, USAF (M)
Capt Michael Pacini, USAF (M)
P. Travis Millet, Dept. of the Air Force

3:00pm - 3:30pm
“Degraded Visual Environment Solution for TACHEL (DVEST) - A Case for Safety”
Maj Brad Steels, CAF (AM)
Capt Michael Jordan, RCAF (M)
Maj Rob Sceviour, RCAF

3:30pm - 4:00pm
“Reduction of Flat Spin in Free-Fall From Near Space”
Art Thompson, Sage Cheshire

4:00pm - 4:15pm - Coffee Break

4:15pm - 4:45pm
“Testing the Navy’s EA-18G Growler: No Glamour and No Glory”
LCDR Matthew Menza, USN (AM)

4:45pm - 5:15pm
“Risk, Relevance and Reporting: Things That Keep Us Up At Night”
Art Tomassetti (F), Lockheed Martin

FRIDAY NIGHT RECEPTION

6:30pm - 9:30pm - Dinner Reception on
The Magic Kingdom Lawn at the Disneyland Hotel
(continuous transportation to the event will be located at the SETP Registration Desk)

CONTINENTAL BREAKFAST - Sequoia Foyer
7:45am - 8:45am, Saturday, 27 September 2014

SESSION V
8:45am - 12:00pm, Saturday, 27 September 2014
Chairman: Jim Brown (F), Lockheed Martin

9:00am - 10:00am
“Truth, Lies and O-Rings: Inside the Space Shuttle Challenger Disaster”
Allan McDonald, Former Director of the Space Shuttle Solid Rocket Motor Project

10:00am - 10:30am
“Countless Memorable Moments From 38 Years of FAA Test Piloting”
James Plackis (M), FAA (Ret)

10:30am - 11:00am - Coffee Break

11:00am - 11:30am
“The Development and Combat Evaluation of the AC-47 Gunship”
Ralph Kimberlin (AF), Aviation Consultants, Inc.

11:30am - 12:00pm
“Twenty Five Years of Flight Test on the B2”
Rick Reinert, Northrop Grumman
Troy Johnson (M), Northrop Grumman
Don Weiss (M), Northrop Grumman

THE ANNUAL BUSINESS MEETING WILL BEGIN UPON ADJOURNMENT OF THE SYMPOSIUM

BANQUET RECEPTION
SEQUOIA FOYER
5:30pm - 6:30pm

AWARDS BANQUET
SEQUOIA BALLROOM
6:30pm

SYMPOSIUM SPONSORS



SETP Hospitality Suite Sponsors:



The Society wishes to thank Boeing for their audiovisual support



The Society thanks the National Test Pilot School for podcasting the Technical Program.



The SETP Headquarters and registration will be in the Sequoia Registration Booth and will be open:

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|-----------|--------------------------------|
| Wednesday | 24 September, 10:00am - 8:00pm |
| Thursday | 25 September, 7:00am - 5:00pm |
| Friday | 26 September, 7:00am - 5:30pm |
| Saturday | 27 September, 7:00am - 1:00pm |

Registration desk will reopen Saturday at 5:30pm

SYMPOSIUM AND BANQUET COMMITTEE

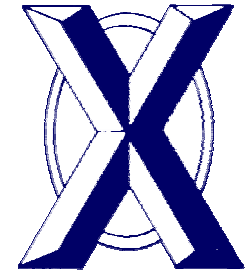
| | |
|--------------------------------------------------------|-----------------|
| General Chairman | COLIN MILLER |
| Symposium Chairman..... | ROB ROWE |
| Luncheon Chairman..... | TROY FONTAINE |
| Friday Night Reception Chairman | GIDEON SINGER |
| New Member Reception Chairman..... | TIM BELOW |
| Banquet Chairman | REGIS HANCOCK |
| Displays Chairman..... | DAN VANDERHORST |
| Dr. Gerry T. Morton , Jr. Technical Tour Chairman..... | DAVID KERN |
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PROGRAM

THE SOCIETY OF EXPERIMENTAL TEST PILOTS



58TH SYMPOSIUM AND AWARDS BANQUET

24-27 SEPTEMBER 2014

GRAND CALIFORNIAN HOTEL ANAHEIM, CALIFORNIA

WELCOME

Welcome to The Society of Experimental Test Pilots' 58th International "Report to the Aerospace Profession". Colin Miller (AF), Gulfstream Aerospace, and his Symposium Team have developed an exceptional program with both formal and informal venues to allow a formal exchange of information, as well as facilitate networking and renew personal and professional friendships. Our goal is for you to enjoy this gathering and, most importantly, that you can gain some fresh perspectives to allow you to conduct flight tests more effectively and especially, more safely.

Kevin E. Prosser
President, 2013-2014