

SPOUSE'S EVENT

27 September 2012
 The Huntington Library
 9:00am - Sequoia Foyer

CONTINENTAL BREAKFAST

7:30am - 8:30am, Thursday, 27 September 2012
 Sequoia Foyer

OPENING CEREMONIES

Sequoia Ballroom
 8:30am - 8:45am, Thursday, 27 September 2012

General Chairman:
 James E. Brown, III (F), Lockheed Martin

Symposium Chairman:
 Patrick Duffy (AF), Applied Research Associates

SESSION I

8:45am - 11:45am, Thursday, 27 September 2012
 Chairman: Col Mike Tarlton, USAF (M)

8:45am - 9:15am
**“Seeing Green: AH-64D Thermal Night Vision
 Sensor Resolution Flight Testing”**
 CW4 Paul Steele, USA (M)

9:15am - 9:45am
“Sofia - Flying the Telescope”
 Troy Asher (M), NASA DFRC
 Stephen Cumming, NASA DFRC

9:45am - 10:15am
**“When Old School is Cool: Striving for Accurate and
 Efficient Safe Separation Testing in the F/A-18”**
 LCDR Joshua Filbey, USN (M)

10:15am - 10:45am - Coffee Break

10:45am - 11:15am
**“Integrated Testing Efficiencies: Real or Imaginary?
 A Case Study From the F/A-18 Community”**
 CAPT Brett Pierson, USN (M)
 CDR A.J. McFarland, USN (AF)

11:15am - 11:45am
**“Using Manned Surrogates in the Testing of
 Unmanned Air Vehicles”**
 Roy Martin (F), Northrop Grumman

**11:45am - 1:30pm
 LUNCH - No formal luncheon is scheduled**

SESSION II

1:30pm - 5:00pm, Thursday, 27 September 2012
 Chairman: Lt Col Dan Draeger, USAF (Ret) (M)

1:30pm - 2:00pm
“How to Destroy a Perfectly Good Fighter”
 Steve Rainey (AF), Boeing

2:00pm - 2:30pm
“F-35B Initial Ship Trials”
 Maj Richard Rusnok, USMC (M)
 Peter Wilson (M), BAE Systems

2:30pm - 3:00pm
**“Effective Test and Calibration of a Trailing Cone
 System on the Atmospheric Research Aircraft Halo”**
 Dr. Andreas Giez, German Aerospace Center

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

3:30pm - 4:00pm
**“Development of a Flight Demonstration for Civil
 Certification Icing Flight Testing”**
 Greg Lewis (F), National Test Pilot School

4:00pm - 4:30pm
**“Flight Testing AESA Radars: Lessons
 from the F-15C and F-15E”**
 Maj Tim Spaulding, USAF (AM)
 Capt James Pate, USAF

4:30pm - 5:00pm
**“Safety, Efficacy, and Efficiency: Design of
 Experiments in Flight Test”**
 Lt Col Aaron Tucker, USAF (M)

CONTINENTAL BREAKFAST

7:00am - 8:00am, Friday, 28 September 2012
 Sequoia Foyer

SESSION III

8:00am - 11:30am, Friday, 28 September 2012
 Chairman: Maj Reagh Sherwood, CAF (M)

8:15am - 8:45am
**“CV-22 Engine Inlet & Scroll Time on
 Wing Improvement Test”**
 Lt Col Don Grove, USAF
 Maj Garrett Knowlan, USAF

8:45am - 9:15am
“P-8A Poseidon Envelope Expansion Testing”
 LCDR Shannon Hoover, USN (M)
 LT Matt Swartzwelder, USN (M)

9:15am - 9:45am
**“Envelope Expansion Dives:
 Refining Build-up Techniques”**
 Aaron Tobias (M), Cessna Aircraft
 Maurice Girard (AF), Cessna Aircraft

“When An Accident Happens - Are You Prepared?”**Spouse's Seminar**

9:30am - Trillium Room

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

10:00am - 10:30am
**“Lessons Learned in Combined Development and
 Operational Test: Ten Years of F-15
 Testing by the OFP CTF”**
 Lt Col David Wright, USAF (M)

10:30am - 11:00am
“Good Light-Off - Airstart Testing in the F-35”
 LtCol Matt Kelly, USMC (AF)
 David Nelson (AF), Lockheed Martin

11:00am - 11:30am
“Eustress and Distress in Pilots”
 Louise Cullinan, ALPA

LUNCHEON

**Sequoia Ballroom
 12:30pm - 2:00pm
 Guest Speaker
 CAPT Chesley B. “Sully” Sullenberger, III, US Airways**

SESSION IV

2:30pm - 5:30pm, Friday, 28 September 2012
 Chairman: Brad McKeage (M), Embraer

2:30pm - 3:00pm
**“Closing the Degraded Visibility Environment
 Operations Gap While Solving the CFIT, Brownout/
 Whiteout, and Wire Strike Accident Chain”**
 Todd Dellert, DAC

Jack Cross, Sierra Nevada Corporation
 Pat Garman (AF), Sierra Nevada Corporation

3:00pm - 3:30pm
“Innovation is as Innovation Does”
 Leland Shanle (M), Broken Wing LLC
 David Kennedy (M), Broken Wing LLC
 William Warlick (M), Broken Wing LLC
 Morris Barnett, Broken Wing LLC

3:30pm - 4:00pm
“Reimagining Value”
 Lt Col Scott Heritsch, USAF (M)
 Tom Hill

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

4:30pm - 5:00pm
**“Risk Mitigation in Large Commercial Helicopters.
 The Case for Limited Exposure to Engine Failure”**
 Ron Doeppner (AF), Sikorsky Aircraft

5:00pm - 5:30pm
**“Displaying Aircraft - Lessons Learned
 from Flight Test Pilots”**
 Dr. Dieter Reisinger (M), Austrian Airlines

FRIDAY NIGHT RECEPTION

6:00pm - 8:30pm - Reception at Festival Arena inside Disneyland

CONTINENTAL BREAKFAST

7:45am - 8:45am, Saturday, 29 September 2012
 Sequoia Foyer

SESSION V

8:45am - 12:00pm, Saturday, 29 September 2012
 Chairman: Tim Morey (AF), Wyle

9:00am - 9:30am

**“Rigging Highly Augmented Aircraft:
 OLD SCHOOL”**
 Ricardo Traven (F), Boeing

9:30am - 10:00am
“X-29 Program: Serious...Fun!”
 Kurt Schroeder (F)
 Rogers Smith (F)

10:00am - 10:30am
**“The Journey From X to F:
 Prototype to Production of the F-35”**
 Col Art Tomassetti, USMC (AF)

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

11:00am - 12:00pm
**“Birds, Dinosaurs, and Aircraft:
 How the Past Informs Us About the Future”**
 Dr. Ken Dial Ph.D.
 University of Montana Flight Laboratory

**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



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The Society wishes to acknowledge Boeing Integrated Defense Systems for their audiovisual support throughout the Symposium and Banquet.



The Society would also like to thank Northrop Grumman for their ongoing support of the Oral History Program.

NORTHROP GRUMMAN

The Society thanks the National Test Pilot School for its support of Podcasting the Technical Program.



REGISTRATION

All attendees of the Symposium are required to register. The registration fee covers admission to all technical sessions, Friday Luncheon, a Friday Night Reception ticket, and one copy of the Symposium Proceedings on DVD.

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

Wednesday	26 September, 10:00am - 8:00pm
Thursday	27 September, 7:00am - 5:00pm
Friday	28 September, 7:00am - 5:00pm
Saturday	29 September, 7:00am - 1:00pm

Registration desk will reopen Saturday at 5:00pm

SYMPOSIUM AND BANQUET COMMITTEE

General ChairmanJAMES E. BROWN, III
 Symposium Chairman..... PATRICK DUFFY
 Luncheon ChairpersonsJIM LESS & FRANK BATTEAS
 Friday Night Reception ChairmanGUY GRATTON
 New Member Reception Chairman..... TOM MORGENFELD
 Banquet Chairpersons BRENT & CARRIE REINHARDT
 Displays Chairman..... DAN VANDERHORST
 Dr. Gerry T. Morton , Jr. Technical Tour Chairman.....
 NIGEL SPEEDY
 Education Outreach Chairman EDWARD CABRERA

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PROGRAM

THE SOCIETY OF EXPERIMENTAL TEST PILOTS



56TH SYMPOSIUM AND AWARDS BANQUET

26-29 SEPTEMBER 2012

GRAND CALIFORNIAN HOTEL
ANAHEIM, CALIFORNIA

WELCOME

Welcome to The Society of Experimental Test Pilots' 56th International "Report to the Aerospace Profession". James Brown (F) and his Symposium Committee have developed an exceptional and stimulating program with both formal and informal venues for the exchange of information and renewal of personal and professional friendships. We all sincerely hope you enjoy this gathering and, most importantly, that you can take home some fresh insights that will allow you to conduct your flight tests more efficiently and with greater safety.

Steve Rainey
President, 2011-2012