

**SPOUSE'S EVENT**  
27 September 2007  
Brunch at the Hotel - 10:30am  
Buses depart for Getty Villa at 11:45am

**OPENING CEREMONIES**

Sequoia Ballroom  
10:00-10:15am, Thursday, 27 September 2007

Symposium Chairman:  
Terry E. Tomeny (AF), Eclipse Aviation

**SESSION I**

10:15am - 11:45am, Thursday, 27 September 2007  
Chairman: Greg "Crash" Jaspers (AF), Denmar  
Technical Services

10:15am-10:45am  
"French Navy E-2C NP2000 Carrier Suitability"  
Francois Dufлот, DGA CEV  
Bernard Pons, French Ministry of Defense CEV

10:45am-11:15am  
"A Methodology Solution of Fuselage Mounted  
Air Data Sensor Calibration Test (F-2)"  
Capt Takamitsu Kurita, JASDF  
Maj Masahiko Fujimagari, JASDF

11:15am-11:45am  
"Why Land and Then Stop a V/STOL  
Aircraft on a Carrier?"  
Lt Christopher Gotke, RN (M)  
Fred Scorer, QinetiQ

**11:45am – 1:15pm – LUNCH**  
No formal luncheon is scheduled

**SESSION II**

1:15pm – 4:45pm, Thursday, 27 September 2007  
Chairman: Troy D. Pennington (M), Lockheed Martin

1:15pm-1:45pm  
"A Boundary Avoidance Tracking Flight  
Test Technique for Performance  
and Workload Assessment"  
Bill Gray (AF), USAF TPS

1:45pm-2:15pm  
"T-50 High AOA Test Results"  
Lt Col Jinho Kwon, ROKAF  
Maj Jooyoung Kim, ROKAF  
Heman Kwon, KAI

2:15pm-2:45pm  
"Achieving the Degraded Visual Environment: A  
Novel Methodology for Handling  
Qualities Flight Test"  
Carvil Chalk, United States Army

**2:45pm-3:15pm-Coffee Break**

3:15pm-3:45pm  
"How Best to Hover? Converging on a Precision  
Hover Flight Control Strategy for the F-35"  
Justin Paines (M), QinetiQ  
Buddy Denham, Naval Air Systems Command

3:45pm-4:15pm  
"F-22 Small Diameter Bomb Integration Testing:  
There's Hope for the Little Guy..."  
Maj Jack Fischer, USAF (M)  
William Kuhlemeier, Lockheed Martin  
Capt Harris Hall, USAF  
2Lt Brad Strong, USAF

4:15pm-4:45pm  
"Flight Testing of the Gulfstream  
Quiet Spike on a NASA F-15B"  
James W. Smolka (AF), NASA  
Robert A. Cowart, Gulfstream Aerospace  
Leslie M. Molzahn, NASA

**7:30pm showing of documentary  
"In the Shadow of the Moon"  
Sequoia Ballroom**

**SESSION III**

8:30am – 11:00am, Friday, 28 September 2007  
Chairman: Dennis O'Donoghue (AF),  
The Boeing Company

8:30am-9:00am  
"Finally! A Flight Test Safety Database  
Available to the Public"  
Rodrigo J. Huete (AF), FAA  
Gregory V. Lewis (F), National Test Pilot School

9:00am-9:30am  
"From Concept to Oshkosh in 226 Days –  
The Story of the Eclipse Concept Jet"  
Terry E. Tomeny (AF), Eclipse Aviation

9:30am-10:00am  
"Flight Testing the Airborne Laser Weapon System"  
Lt Col Michael R. Contratto, USAF (M)  
Lt Col Barry W. St. Germain, USAF (M)

**10:00am – 10:30am – Coffee Break**

10:30am-11:00am  
"Using Weather Radar for Terrain Following"  
Lt Col David Fedors, USAF (M)  
Michael Sizoo (M), Boeing Integrated Defense Systems

11:00am-11:30am  
"Taming the Stall/Departure Characteristics  
of the Derringer D-1 Aircraft"  
Sean Roberts (F), National Test Pilot School

**LUNCHEON**  
Sequoia Ballroom  
12:30pm – 2:00pm  
Guest Speaker  
Mr. Vern Raburn  
CEO & President  
Eclipse Aviation

**SESSION IV**

2:00pm – 5:00pm, Friday, 28 September 2007  
Chairman: Nadia Roberts (M), Flight Research Inc.

2:00pm-2:30pm  
"EA-18G Flight Test"  
CDR Jaime Engdahl, USN

2:30pm-3:00pm  
"The Design, Testing and Qualification of Spin  
Recovery and/or Deep-Stall Recovery  
Parachute Systems for Various Aircraft  
from 2,500 to 100,000 LB GW"  
Manley C. Butler, Jr., Butler Parachute Systems Group  
Roberto Montanez, Butler Parachute Systems Group

3:00pm-3:30pm  
"An Overview of the 13th Expedition to the  
International Space Station (ISS)"  
COL Jeffrey Williams, USA (AF)

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

4:00pm-4:30pm  
"F-35 Lightning II – Flight Test Update"  
Jon S. Beesley (F), Lockheed Martin

4:30pm-5:00pm  
"Flight Test of the Sky-X Unmanned (Combat) Air  
Vehicle: Achievements, Lessons Learned  
and Incoming Activities"  
Enrico Scarabotto, Alenia  
Fabio Boscolo, Alenia

**SETP NEW MEMBER RECEPTION**  
The New Member Reception is being integrated into the  
Friday Night Reception this year.  
6:00pm-8:00pm - Free use of California Adventure  
6:30pm - Reception at Stage 17 inside California Adventure  
7:30pm-9:00pm - Dinner Buffet  
8:15pm - New Member Recognition  
8:45pm - 11:30pm - Soarin' Over California attraction

**REFLECTIONS**

**SESSION V**

"Prototypes: Demonstrating Technology,  
Promises and Pitfalls"  
8:30am – 12:30pm, Saturday, 29 September 2007  
Chairman: Paul Metz (F)

8:30am-9:00am  
"Prototyping a Lunar Lander: The  
LLRV and LLTV Projects"  
Neil Armstrong (F), Edo Corporation

9:00am-9:30am  
"Crossing the Boundary: The  
DeHavilland DH-108 Swallow"  
Capt Eric M. Brown, RN (Ret)

9:30am-10:00am  
"Competitive Prototyping: The YC-14 and YC-15"  
Floyd B. Stroup (F)  
Dave Bittenbinder (M)  
William R. Casey (F)  
Raymond L. McPherson (F)  
Addison S. Thompson (F)

10:00am - 10:30am  
"Best of the V Bombers: The AVRO Vulcan"  
Tony Blackman (F)

**10:30am – 11:00am – Coffee Break**

11:00am - 11:30am  
"Flight Testing the XB-47 Stratojet"  
Richard W. Taylor (F)

11:30am - 12:00pm  
"Reverse Prototyping: The Me-262 Sturmvoegel"  
Horst Philipp (M)

12:00pm - 12:30pm  
"A Prototype for Prototypes: The Rotor Systems  
Research Aircraft (RSRA)"  
G. Warren Hall (F), NASA  
Robert K. Merrill (AF)

**THE ANNUAL BUSINESS MEETING WILL BEGIN  
UPON ADJOURNMENT OF THE SYMPOSIUM**

**BANQUET RECEPTION  
SEQUOIA FOYER  
6:00pm – 7:00pm  
AWARDS BANQUET  
7:00pm, 29 September 2007  
SEQUOIA BALLROOM**

## **CORPORATE MEMBERS**

*Adam Aircraft Industries*  
*Advanced Systems Research, Inc*  
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*Air Force Test Pilot School (India)*  
*Air Line Pilots Association*  
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*Alenia Aermacchi S.p.A.*  
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*Vulcanair S.p.A.*  
*Whitney, Bradley & Brown Inc.*  
*Wyle Laboratories, Aerospace Group*  
*XCOR Aerospace*  
*XN Technologies, Inc.*

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

***We also wish to acknowledge Northrop Grumman for their continued support of the SETP Oral History program.***

## **REGISTRATION**

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

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

|           |                                |
|-----------|--------------------------------|
| Wednesday | 26 September, 11:30am – 7:30pm |
| Thursday  | 27 September, 7:00am – 5:00pm  |
| Friday    | 28 September, 7:00am - 5:30pm  |
| Saturday  | 29 September, 7:00am - 1:30pm  |

## **SYMPOSIUM AND BANQUET COMMITTEE**

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Symposium Chairman..... TERRY E. TOMENY  
Luncheon Chairman..... GREG JASPERS  
New Member Reception Chairman.....C.W. BILL CONNOR  
..... ROBERT L. CRIPPEN  
Banquet Chairman .....JAMES E. BROWN, III  
Displays Chairman..... DAN VANDERHORST  
Tour Chairman.....GERRY MORTON

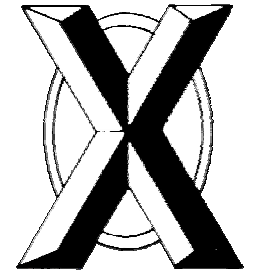
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## **PROGRAM**

### **THE SOCIETY OF EXPERIMENTAL TEST PILOTS**



### **51<sup>st</sup> SYMPOSIUM AND AWARDS BANQUET**

**26-29 SEPTEMBER 2007**

**THE GRAND CALIFORNIAN HOTEL  
ANAHEIM, CALIFORNIA**

**WELCOME**

Welcome to all Symposium attendees to The Society of Experimental Test Pilots' 51st International "Report to the Aerospace Profession."

The Symposium Committee has developed an exceptional and stimulating program with both formal and informal venues for the exchange of information and renewal of personal and professional friendships.

I sincerely hope you will enjoy this gathering and, most importantly, are able to use these data to safely and efficiently conduct your flight test efforts.

Fly Safe!

James R. Sandberg (F)  
International President