SESSION II
1:00pm - 4:30pm, Thursday, 27 September 2018

1:00pm - 1:30pm
“SS2 Rocket-Powered Flight Testing”
Mark Stucky (F), Virgin Galactic/The Spaceship Co.
Dave Mackay (M), Virgin Galactic

1:30pm - 2:00pm
“USNTPS Variable Stability Helicopter”
Barbara Gordon, USNTPS
Mike Mosher, USNTPS
Bill Geyer, USNTPS

2:00pm - 2:30pm
“New Frameworks for Risk Management in Flight Test”
Col Douglas Wickett, USAF (AF)

2:50pm - 3:00pm - Coffee Break

3:00pm - 3:30pm
“Crosswind Testing of Transport Aircraft”
Paul Bolds-Moorhead, The Boeing Company
Van Chaney (AF), The Boeing Company
Terry Lutz (F), Airbus/TLZ Aerospace
Stephane Vaux, Airbus

3:30pm - 4:00pm
“Decoding NDI: Optimizing Envelope Expansion of Modern Aircraft”
Maj Corey Florendo, USAF (M)
Maj Jameel Janjua, RCAF (M)

4:00pm - 4:30pm
“First Flight With Grippen E”
Marcus Wandt (M), SAAB

LUNCHEON – 12:00pm – 2:00pm - Sequoia Ballroom
Guest Speaker: Luke Aikens
“Pushing the Boundaries of Human Flight”

CONTINENTAL BREAKFAST - Sequoia Foyer
7:00am - 8:00am, Thursday, 27 September 2018

WELCOME/OPENING CEREMONIES
Sequoia Ballroom
8:00am - 8:15am
“State of the Society”
Art “Turbo” Tomassetti (F)
SETP President/Lockheed Martin

SYMPOSIUM TEAM INTRODUCTION
General Chairman:
Rich Lee (F), K2 Aviation
Symposium Chairman:
Brian Sandberg (AF), Lockheed Martin

Thursday Chairman:
Matt Taylor (AF), Northrop Grumman
SESSION I - 8:30am - 11:30am

8:30am - 9:00am
“Testing 21st Century Catapults”
LT Nick Smith, USN (M)

9:00am - 9:30am
“Valid Flight Control Forces for Aircraft Design”
Dr. Robert Joslin (AF), FAA

9:30am - 10:00am - Coffee Break

10:00am - 10:30am
“1-200 Valor First Flight Build Up: Preparing for a Technology Demonstration”
Kevin Christensen (AF), Bell
Don Grove (M), Bell
Alexander McGuinness (M), Bell

10:30am - 11:00am
“Developing C-17A Control Laws In-Flight: Three-Axis Aerial-Refueling and Robust Flightpath”
Maj Patrick Ris, USAF (M)
Maj Duncan Reed, USAF (PAM)

11:00am - 11:30am
Maj Naoto Kageyama, JASDF
Capt Masahiro Nakamura, JASDF

11:30am - 1:00pm LUNCH - No formal luncheon

SESSION III
8:00am - 11:30am

8:00am - 8:30am
“Flight Testing of the Stratospheric Perlan 2 Sailplane”
Maj James Payne (AF), Perlan Project
Miguel Iturriendy (M), Perlan Project

8:30am - 9:00am
“Energy Management Issues in Highly Automated Cockpits”
Andrew Skow, Tiger Century Aircraft

10:00am - 10:30am
“Good Flow E-2D Aerial Refueling”
LT David Chapelle, USN (PAM)
Nate Atkinson (M), Northrop Grumman

10:30am - 11:00am
“Three Months Before Tokyo - Lessons in Innovation from Testing the B-25B”
Randi Gordon, PhD (M), AFWERX Innovation

11:00am - 11:30am
“Complete Air Data System Calibration: On the Fly”
Maj Juan Jurado, USAF
Capt Clark McGehee, USAF

SESSION IV
2:30pm - 5:00pm, Friday, 28 September 2018

2:30pm - 3:00pm
“Water Ingestion Testing of the Gulfstream GIVII-G500”
David Kern (M), FAA
Scott Martin (AF), Gulfstream

3:00pm - 3:30pm
“Characterizing Hover Performance Over Slopedit Terrain”
John Holder (AF), KBayne
John Tritschler, USNTPS

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

4:00pm - 4:30pm
“The USAF Light Attack Experiment”
Lt Col Patrick Kellingwayy, USAF (M)
Maj Bryan Ralston, USAF
Lt Col Tom Meagher, USAF (M)

4:30pm - 5:00pm
“F-35 Drag Chute Testing”
Maj Martin van de Pol, Royal Netherlands AF (AM)
Maj Eskil Amdal, Royal Norwegian AF (AF)

CONTINENTAL BREAKFAST - Sequoia Foyer
8:00am - 8:30am, Friday, 29 September 2018

Thursday Chairman:
Matt Taylor (AF), Northrop Grumman
SESSION V - 8:00am - 11:40am

7:00am
SESSION V

7:00am - 8:00am
Zach McArdle (M), X Flight Test
Tsubasa Okamo, Mitsubishi Aircraft Corporation

9:00am - 9:30am
“Scorpion Flight Test - Speedy Meets Safe”
Gov Hinson (AF), Textron Aviation
Brett Pierson (AF), Textron Aviation

9:30am - 10:00am - Coffee Break

10:00am - 10:30am
“The Douglas DC-1 / DC-2 Flight Test Program (1933) ”
Leon Robert (AF), The Boeing Company (Ret)

10:30am - 11:00am
“Envelope Expansion of Electric VTOL Aircraft”
Raymond Schreiner (M), Kitty Hawk Corporation
Bill Shoemaker (M), Boom Supersonic

11:00am - 11:30am
“Reflections: Learn from - Design History, Problems and Solutions, Flight Test Lessons Learned”
Joe Brownlee (AF), JAB Aerospace, LLC

11:30am - 11:40am
“Flight Test Safety Committee Update”
Tom Huff (AF), FTSC Chairman/Gulfstream

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
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 - 4:30pm
- **Friday** 28 September, 7:00am - 5:00pm
- **Saturday** 29 September, 7:00am - 12:00pm

Registration desk will reopen Saturday at 5:30pm

**SYMPOSIUM AND BANQUET COMMITTEE**

General Chairman: RICH LEE
Symposium Chairman: BRIAN SANDBERG
Luncheon Chairman: SCOTT URSCHEL
New Member Reception Chairman: BILL CONNOR
Banquet Chairman: BRETT VANCE
Displays Chairman: DAN VANDERHORST
Technical Tour Chairman: MARK STUCKY
Education Outreach Chairman: TIMOTHY MCDONALD
Sponsorship Chairwoman: LAURIE BALDERAS

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Welcome to The Society of Experimental Test Pilots’ 62nd International “Report to the Aerospace Profession”. Brian Sandberg 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.