CONTINENTAL BREAKFAST - Sequoia Foyer
7:00am - 8:00am, Thursday, 22 September 2022

8:00am - 8:15am - Sequoia Ballroom

WELCOME/OPENING CEREMONIES
David Nils Larson (F), NASA SETP President

SYMPOSIUM TEAM INTRODUCTION
General Chairman:
Jameel Januja (M), Virgin Galactic
Symposium Chairman:
Andrew Edgell (AF), Calspan Corporation

Thursday Chairman:
Calvin D'Silva (M), The Boeing Company
SESSION I - 8:15am - 11:55am

8:15am - 8:45am
“Flight Test Mind Map - Levels and Head Fakes”
Allan Jespersen, USAF Test Pilot School (AM)

8:45am - 9:15am
“Canadian Vertical Lift Autonomy Demonstration: Flight Testing Autonomy”
Derek Gowanlock, Nat’l Res. Council of Canada

9:15am - 9:45am
“Supersonic Testing of the Bombardier Global 8000 Business Jet”
Ed Grabman (AF), Bombardier
Jeff Kerns (AF), Bombardier

9:45am - 10:25am - Coffee Break

10:25am - 10:55am
“Things Flight Testers Should Know About Batteries for Electric Propulsion”
Jennifer Uchida, AeroTEC, LLC
Alberto Favier, Pipistrel Vertical Solutions d.o.o.

10:55am - 11:25am
“Stratolaunch Landing Gear System Testing”
Evan Thomas (AF), Stratolaunch
Stuart Yun, Stratolaunch
Keegan Colbert, Stratolaunch

11:25am - 11:55am
“UNITY 22”
David Mackay (AF), Virgin Galactic

11:55am - 1:15pm LUNCH - No formal luncheon

SESSION II
1:15pm - 4:55pm, Thursday, 22 September 2022

1:15pm - 1:45pm
“Test Electric, Speed and Height Without Dead Dinosaurs”
Prof Guy Gratton (AF), Cranfield University UK
Dr. Rein Hoff (M), Cranfield University UK

1:45pm - 2:15pm
“Cockpit Radiation and the Human Weapon System”
Col Dan Jaworski, USAF PHD (M)

2:15pm - 2:45pm
“F-22 Wing Overload Investigation”
Brittney Johnson, Dept. of the Air Force
Maj Samuel Browne, USAF (PAM)

2:45pm - 3:25pm - Coffee Break

3:25pm - 3:55pm
“V-280 Valor Flight Test Lessons Learned: The Value of Mission Rehearsals”
Don Grove (M), Bell Textron, Inc.
David Johnson, Bell Textron, Inc.
Kevin Christensen (AF), Bell Textron, Inc.

3:55pm - 4:25pm
“Flight Test of Hybrid Electric Aircraft Testbed”
Peter Earle, Nat’l Res. Council of Canada
Reagh Sherwood (M), Nat’l Res. Council of Canada

4:25pm - 4:55pm
“Failure Is Always an Option”
Art Tomassetti (F)
Time2Climb Training & Consulting

SESSION III
8:00am - 9:00am
“Evaluating Mental Workload Using Psychophysiological Measures”
Andrea Pingitore (M), NTPS

9:00am - 9:30am
“First Flight of the e-Caravel - magniX and AeroTEC’s All-Electric C208 Technology Demonstration”
Steven Crane (AF), Allied Approach Group, LLC
Ben Loxton, magniX
Jennifer Uchida, AeroTEC, LLC

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

10:00am - 10:30am
“Lessons Learned from Republic of Korea Fighter (KF-21) First Flight”
Lt Col Seong Bein Park, ROKAF
Maj Youngae Choi, ROKAF

10:30 - 11:00am
“Premature Descent Alerting: Experimental Flight Test Execution of an Enhanced TAWS Feature on Gulfstream G700/800 Aircraft”
Tiziano Bernard, Gulfstream
Jason Kiefert, Gulfstream

11:00am - 11:30am
“Quiet Supersonic Technology - Past and Present”
Roy Martin (F), Northrop Grumman (Ret)
James Less (M), NASA

AWARDS BANQUET - SEQUOIA BALLROOM
Reception 5:30pm / Banquet 6:30pm

4:30pm - 5:00pm
“Typhoon Crosswind Testing: The Human Element of Safety Barriers”
Sqn Ldr Oliver Payne, RAF (M)
Lt Col Christopher Nations, USAF (M)

CONTINENTAL BREAKFAST - Sequoia Foyer
7:00am - 8:00am, Saturday, 24 September 2022

FRIDAY EVENING NETWORKING DINNER
Adventure Lawn at The Disneyland Hotel - 6:30pm -11:00pm

SESSION IV
2:30pm - 5:00pm, Friday, 23 September 2022

2:30pm - 3:00pm
“Demonstrating a Framework for Measuring Trust in Tactical Autonomy”
Joseph Brown, Dept. of the Air Force

3:00pm - 3:30pm
“Preventing Physiological Episodes - One Year Post Filing”
Maj Kevin Hand, USAF (PAM)
Dr. Brian Bradke, Spotlight Labs

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

4:00pm - 4:30pm
“Acceptable Level of Risk - A New Safety Construct”
Todd Ericson (F), FTR Enterprises, LLC

4:30pm - 9:00pm
“Mitigating Degraded Visual Environment Landings Through Improved Displays”
Maj Aaron Okun, USMC (M)

9:00pm - 9:30am
“#Testing With Millennials”
Lt Col Phillip Jackson, USAF (M)
Ted Meek (AF), The Boeing Company

9:00am - 9:30am
“Flight Testing With Artificial Ice Shapes on the Boeing 777-9”
James Hanley (AF), The Boeing Company
Thomas Esser, The Boeing Company

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

10:00am - 10:30am
“Aerial Refueling Test Between JASDF F-2 and RAAF KC-30A”
Maj Kazuhiro Ota, JASDF
Capt Kota Ban, JASDF
SQNLRD Cameron Dennis, RAAF

10:30am - 11:00am
“Natural Ice Flight Testing Campaign for the GlobalEye Special Mission Aircraft”
Weston Pile, Saab AB
Nenad Jankovic (AM), Saab AB

11:00am - 11:55am
“State of the Society”
David Nils Larson (F), NASA SETP President

THE ANNUAL BUSINESS MEETING WILL BEGIN UPON ADJOURNMENT OF THE SYMPOSIUM
The SETP Headquarters and registration desk will be in the Sequoia Foyer and will be open:

- **Wednesday**: 21 September, 10:00am - 8:00pm
- **Thursday**: 22 September, 7:00am - 5:15pm (Reopens at 5:30pm)
- **Friday**: 23 September, 7:00am - 5:00pm
- **Saturday**: 24 September, 7:00am - 12:00pm

**SYMPOSIUM AND BANQUET COMMITTEE**

- **General Chairman**: JAMEEL JANJUA
- **Symposium Chairman**: ANDREW EDGELL
- **Luncheon Chairman**: TUCKER HAMILTON
- **New Member Reception Chairman**: RYAN BLAKE
- **Banquet Chairman**: ART TOMASSETTI
- **Displays Chairman**: DAN VANDERHORST
- **Technical Tour Chairman**: COREY FLORENDO
- **Education Outreach Chairman**: KEVIN GROSS
- **Sponsorship Chairwoman**: LAURIE BALDERAS

**BOARD OF DIRECTORS**

- President: DAVID NILS LARSON
- Vice President: BRETT PIerson
- Secretary: KELLY LATIMER
- Treasurer: KERRY SMITH
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- President-Elect: BRIAN SANDBERG
- Technical Adviser: JAMEEL JANJUA
- Technical Adviser: JUSTIN PAINES
- Executive Director: LAURIE BALDERAS

Welcome to The Society of Experimental Test Pilots’ 66th International “Report to the Aerospace Profession”. Jameel Janjua 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.

David Nils Larson (F), NASA
SETP President, 2021-2022