

# TAMEST ★ 2018 Annual Conference

# AEROSPACE

SOUTH SHORE HARBOUR RESORT & CONFERENCE CENTER, LEAGUE CITY, TX • JANUARY 10–12, 2018

## Thursday, January 11, 2018

7:30-8:30 a.m. **Breakfast**

8:30-8:45 a.m. **Opening Remarks**  
**The Honorable Gordon R. England (NAE),**  
TAMEST President  
**Bonnie J. Dunbar, Ph.D. (NAE),**  
Program Chair

8:45-9:10 a.m. **NASA 2018 and Beyond: An Integrated View of NASA's Work to Make the Next Giant Leaps in Exploration**  
**Robert M. Lightfoot Jr., NASA**

9:10-10:05 a.m. **Leaders of Aerospace Research in Texas**  
*MODERATOR:*  
**Bob Metcalfe, Ph.D. (NAE),** The University of Texas at Austin

- **David E. Daniel, Ph.D. (NAE),** The University of Texas System
- **Adam L. Hamilton, P.E.,** Southwest Research Institute
- **David W. Leebron, J.D.,** Rice University
- **Ellen Ochoa, Ph.D.,** NASA Johnson Space Center
- **Louise Prockter, Ph.D.,** Lunar and Planetary Institute, USRA
- **John Sharp,** The Texas A&M University System

10:05-10:20 a.m. **Break**

10:20 a.m.-12:10 p.m. **Human Space Flight: International Space Station (ISS) Breakthroughs**  
*MODERATOR:*  
**Ellen Ochoa, Ph.D.,** NASA Johnson Space Center

- **Kirk Alden Shireman,** NASA
- **Julie Robinson, Ph.D.,** International Space Station, NASA
- **Jeffrey P. Sutton, M.D., Ph.D.,** Baylor College of Medicine
- **Benjamin D. Levine, M.D.,** UT Southwestern Medical Center
- **Sam Ting, Ph.D.,** 1976 Nobel Laureate, Physics; MIT

12:10-12:40 p.m. **Break**

12:40-2:05 p.m. **Lunch Presentations**

### Frontier of Commercial Space Flight

- **David Alexander, Ph.D.,** Rice University
- **Christopher Ferguson,** Boeing Commercial Crew Program
- **Gwynne Shotwell,** SpaceX
- **Michael T. Suffredini,** Axiom Space, LLC

2:05-2:20 p.m. **Break**

2:20-4:00 p.m. **Texas Aeronautics: Business, Education and Research**

*MODERATOR:*

**H. Norman Abramson, Ph.D. (NAE),** Southwest Research Institute

- **Janine K. Iannarelli,** Par Avion Ltd.
- **Orlando Carvalho,** Lockheed Martin
- **Michael Thacker,** Bell Helicopter
- **Ron Ricks,** Southwest Airlines Co.

4:00-4:20 p.m. **Break**

4:20-5:50 p.m. **Aeronautics Research: Challenges and Successes**

*MODERATOR:*

**H. Norman Abramson, Ph.D. (NAE),** Southwest Research Institute

- **Rodney Dale Welch Bowersox, Ph.D.,** Texas A&M University
- **Jerry Hendrix,** Texas A&M University–Corpus Christi
- **Glenn W. Liston,** Air Force Research Laboratory
- **Jayant Sirohi, Ph.D.,** The University of Texas at Austin
- **Luciano Smith,** Southwest Research Institute

5:50-7:30 p.m. **Break**

7:30 p.m. **Edith and Peter O'Donnell Awards Dinner**



## Friday, January 12, 2018

7:30-8:30 a.m. **Breakfast**

8:30-10:00 a.m. **Edith and Peter O'Donnell Awards Recipient Presentations**

*MEDICINE:*

**Jordan Scott Orange, M.D., Ph.D.**, Baylor College of Medicine

*ENGINEERING:*

**Delia J. Milliron, Ph.D.**, The University of Texas at Austin

*SCIENCE:*

**Xiaoqin Elaine Li, Ph.D.**, The University of Texas at Austin

10:00-10:15 a.m. **Break**

10:15 a.m.-12:00 p.m. **Robotic Exploration of the Solar System: From Mercury to Pluto and Beyond**

*VIDEO:* Seven Minutes of Terror: The Challenges of Getting to Mars

*MODERATOR:*

**Louise Prockter, Ph.D.**, Lunar and Planetary Institute, USRA

- **Elizabeth Rampe, Ph.D.**, NASA Johnson Space Center
- **Scott J. Bolton, Ph.D.**, Southwest Research Institute
- **Paul D. Spudis, Ph.D.**, Lunar and Planetary Institute
- **Jack Hunter Waite Jr., Ph.D.**, Southwest Research Institute
- **Paul Schenk, Ph.D.**, Lunar and Planetary Institute, NASA
- **Susan M. Lederer, Ph.D.**, NASA Johnson Space Center

12:00-12:15 p.m. **Break**

12:15-1:00 p.m. **Lunch**

1:00-1:30 p.m. **Sequencing DNA on the International Space Station (ISS)**

**Kate Rubins, Ph.D.**, NASA Johnson Space Center

1:30-2:30 p.m. **Panel Discussion: Astronauts**

*MODERATOR:*

**Bonnie J. Dunbar, Ph.D. (NAE)**, Texas A&M University

- **Franklin Chang Díaz, Ph.D.**, Ad Astra Rocket Company
- **Colonel Walter Cunningham**, USMC-Ret.
- **Gregory H. Johnson**, Center for the Advancement of Science in Space (CASIS)
- **Ellen Ochoa, Ph.D.**, NASA Johnson Space Center
- **Kate Rubins, Ph.D.**, NASA Johnson Space Center

2:30-2:45 p.m. **TAMEST Leadership Update and Closing Remarks**

*Program Subject to Change*

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