



# **Pumps & Pipes 11**

## **Expanding Our Ecosystem**

### **Symposium Agenda**

December 4, 2017  
Texas Medical Center Innovation Institute (TMCx)

#### **Getting Started**

8:00 – 9:00 AM

**Registration**

9:00 – 11:00 AM

#### **Welcome: Expanding The Pumps & Pipes Ecosystem**

Alan Lumsden, MD

Medical Director, Houston Methodist DeBakey Heart & Vascular Center

#### **Deep Space Exploration**

Ellen Ochoa, PhD

Astronaut, Center Director, NASA | Johnson Space Center

#### **Deploying The Neighbor's Toolkit: Detecting Mosquito Habitat**

Melissa Nolan, PhD, MPH

Departments of Pediatrics and Tropical Medicine, Baylor College of Medicine

#### **Worst to First: What Astro Curve Balls & Texas Wind Energy Have in Common**

William Kline, PhD

Director Emeritus, Pumps & Pipes Program

Daniel Araya, PhD

Department Mechanical Engineering, University of Houston

#### **Perspectives**

Kjell Lindgren, MD

Astronaut, Cardiovascular Physiologist, NASA | Johnson Space Center

#### **P&P Welcome From International Space Station**

Joseph Acaba, MS

Astronaut, Educator On Board ISS, NASA | Johnson Space Center

11:00 – 11:15 AM

**Break – Roving Reporter Interviews**

#### **Seeing Is Believing**

11:15 AM – 12:00 PM

#### **A Tough Case, A Case From The Cath Lab, and Taking It For A Spin On Stage: Vascular Robot For Complex Coronary Interventions**

Colin Barker, MD, Alpesh Shah, MD and Huie Lin, MD

Houston Methodist DeBakey Heart & Vascular Center

Mark Toland

President & CEO, Corindus Vascular Robotics

#### **Lunch, Matching Minds & Mentoring Network, Exhibits**

12:00 – 1:30 PM

**Roving Reporter Interviews**

## **Are You Curious?**

1:30 – 3:00 PM

### ***Welcome To TMC Innovation Institute***

Erik Halvorsen, PhD  
Director, TMCx Incubator and BioDesign Fellowship Program

### ***Take Another Little Piece Of My Heart: Intra-atrial Shunting For Heart Failure***

Jacob Kriegel, MD  
CEO, Co-Founder, Alleviant Medical a BioDesign Company

### ***Childs Play: Novel Polymeric Transcatheter Heart Valve***

Daniel Harrington, PhD  
CSO, Co-Founder, PolyVascular a TMCx Company

### ***DNA Sequencing In Microgravity: A FIRST***

Kate Rubins, PhD  
Astronaut, Molecular Biologist, NASA | Johnson Space Center

### ***Lamborghini Skin & Space Adventures***

Alessandro Grattoni, PhD  
Chairman, Department of Nanomedicine, Houston Methodist Research Institute

### ***Moon 101***

Dean Eppler, PhD  
Geologist, Rocket Scientist, Aerospace Corporation

3:00 – 3:15 PM **Break** – Roving Reporter Interviews

## **More To Explore!**

3:15 – 5:00 PM

### ***Update From The Land Of The Midnight Sun***

Thor Ole Gulsrud, PhD  
Director Research, Medtech IRIS, Executive Director, Norway Pumps & Pipes

### ***Deploying The Neighbor's Toolkit: From Space to Medical Robotics***

Tim Fielding, MS  
Manager, Product Development, MDA Corporation

### ***Don't Bug Me! The Intersection of Microbiology And The Oilfield***

Victor Keasler, PhD  
Director RD&E, NALCO Champion | An EcoLab Company

### ***New Space: A Gold Rush Or Fools Errand?***

Ed Swallow, MS  
Senior Vice President, Aerospace Corporation

### ***Pumps & Pipes STEAM Engine***

Stephen Igo  
Houston Methodist DeBakey Heart & Vascular Center

### ***LIFTOFF: Houston Exponential***

Richard Williams, PE  
CEO, Houston Exponential