AGENDA
DECEMBER 7, 2015

Houston Methodist Research Institute

7:00 – 8:00  Registration and Breakfast

8:00 – 8:20  Welcome: Pumps & Pipes 9 Open
Alan B. Lumsden, MD, Medical Director
Houston Methodist DeBakey Heart & Vascular Center
William E. Kline, PhD, Manager, Drilling and Subsurface
ExxonMobil Upstream Research Company

8:20 – 8:35  Getting to Mars
Ellen Ochoa, PhD, Center Director and Astronaut
Johnson Space Center  |  NASA

Conversation Starters

8:35 – 8:45  P&P Mentors-to-STEM Teachers Program
Michael Lunceford, HISD School Board Trustee and Former HISD President
Manager of Engineering, Stanolind Oil and Gas

8:45 – 9:20  The Chronicles of the Crown Jewels
Eileen Stansbery, PhD, Deputy Director, Exploration Integration and Science
Chief Scientist, Johnson Space Center  |  NASA

9:20 – 9:55  Discovery Pathways for Transcatheter Heart Valves
Stan Rabinovich, MS, Vice President, Advanced Technology and Discovery,
Edwards Lifesciences

and Hydraulic Fractures Have in Common
Mahesh Kailasam, PhD, Senior Director, Business Development,
Virtual Human Modeling and Simulation, Former Director, Oil and Gas
Strategy and Solutions, Dassault Systemes

Explore Networking Stations  |  Roving Reporter

10:30 – 11:30  On the Red Carpet AGAIN  |  KARL STORZ Endoscopy-America
3D Virtual Reality Imaging  |  Dassault Systemes  |  Oculus Rift
STEM VR  |  Students from HISD STEM schools demonstrate
the zSpace VR Tablet
Cardiovascular Devices  |  Avinger Medical  |  Edwards Lifesciences
Student Space Art Exhibit  |  JSC  |  NASA
Children’s Heart Foundation
The Aerospace Corporation

11:30 – 11:45  Pick-up lunch and return to the Auditorium

Presentation

11:45 – Noon  Dai-Shan Wong Memorial Service Award
Patrick White, Executive Director
Greater Houston Manufacturers Association
Awardee: Reece Terry, Founder, Cyberonics, Inc.
LIVE CASE from Hybrid Operating Room
Noon – 12:30  Transcatheter Aortic Valve Replacement
Michael J. Reardon, MD, Distinguished Chair, Cardiovascular Research, Professor of Cardiovascular Surgery
Neal S. Kleiman, MD, Medical Director, Cardiac Catheterization Laboratories, Professor of Cardiology
Stephen H. Little, MD, Medical Director, Heart Valve Clinic, Associate Professor of Cardiology
Houston Methodist DeBakey Heart & Vascular Center

LIVE from Keele University Observatory, England via STORZ VisitOR1 Telepresence Robot
12:30 – 1:00  In a Galaxy Far, Far Away
Coel Hellier, PhD, Professor of Astrophysics, Head of Wide-Angle Search for Planets (WASP) Project
Tom Wagg, High School Student, Discoverer Exoplanet WASP-142b
Keele University Observatory, Staffordshire, United Kingdom

KEYNOTE ADDRESS
1:00 – 1:45  Lighting Discovery Pathways
John B. Simpson, MD, PhD
Executive Chairman of the Board, Avinger, Inc.
Dr. Simpson invented the first over-the-wire coronary balloon angioplasty catheter device. This single idea created the field of interventional cardiology as we know it today.

Seeing Is Believing
1:45 – 2:15  Making Sense of Drilling Data
Darren Pais, PhD, Research Engineer
ExxonMobil Upstream Research Company
Vincent Dansereau, User Experience Design Lead, Pason Systems
2:15 – 2:30  A Pumps & Pipes Story
Frank Perez, Chairman and Chief Executive Officer
Sfile Technology, Corporation
2:30 – 2:45  Break

2:45 – 3:00  Pumps & Pipes Norway; Stavanger Session
Morten Paulsen, Norwegian Consul General, Houston
Kristin Reitan Husebø, Chief Executive Officer
Greater Stavanger Economic Development, Norway
Ole Ringdal, PhD, Chief Executive Officer
International Research Institute of Stavanger, Norway

3:00 – 3:30  Living in a Radiation Field
Jeffrey Davis, MD, Director, Human Health and Performance
Edward Semones, Space Radiation Analysis Group
Johnson Space Center | NASA

3:30 – 3:50  Hearts, Lungs and Rocket Scientists
Edward B. Diethrich, MD, Founder, Cardiovascular Surgeon
Arizona Heart Institute

3:50 – 4:20  What You Can’t See Will Never Hurt You??
Alan B. Lumsden, MD, Medical Director,
Chairman, Department of Cardiovascular Surgery,
Houston Methodist DeBakey Heart & Vascular Center

4:20 – 4:40  Oil Spill Response
Timothy J. Nedwed, PhD, Team Lead, Oil Spill Response Research
ExxonMobil Upstream Research Company

4:40 – 5:00  Clips and Plugs, An Interventionalists’ Toolkit
Colin M. Barker, MD, Assistant Professor of Cardiology
Houston Methodist DeBakey Heart & Vascular Center

5:00 – 5:20  Why Mars is Hard
Stanley Love, PhD, Astronaut, Deep Space Exploration Planning
Johnson Space Center | NASA

5:20 – 5:30  Closing Remarks
William E. Kline, PhD and Alan B. Lumsden, MD

RECEPTION AND SPECIAL PRESENTATION
Trevisio Restaurant
5:30 – 7:30
Co-hosted by The Texas Medical Center
TMCx and The TMC Third Coast
Robert Robbins, MD, Chief Executive Officer
Texas Medical Center
Featuring TMCx Start-Up Companies