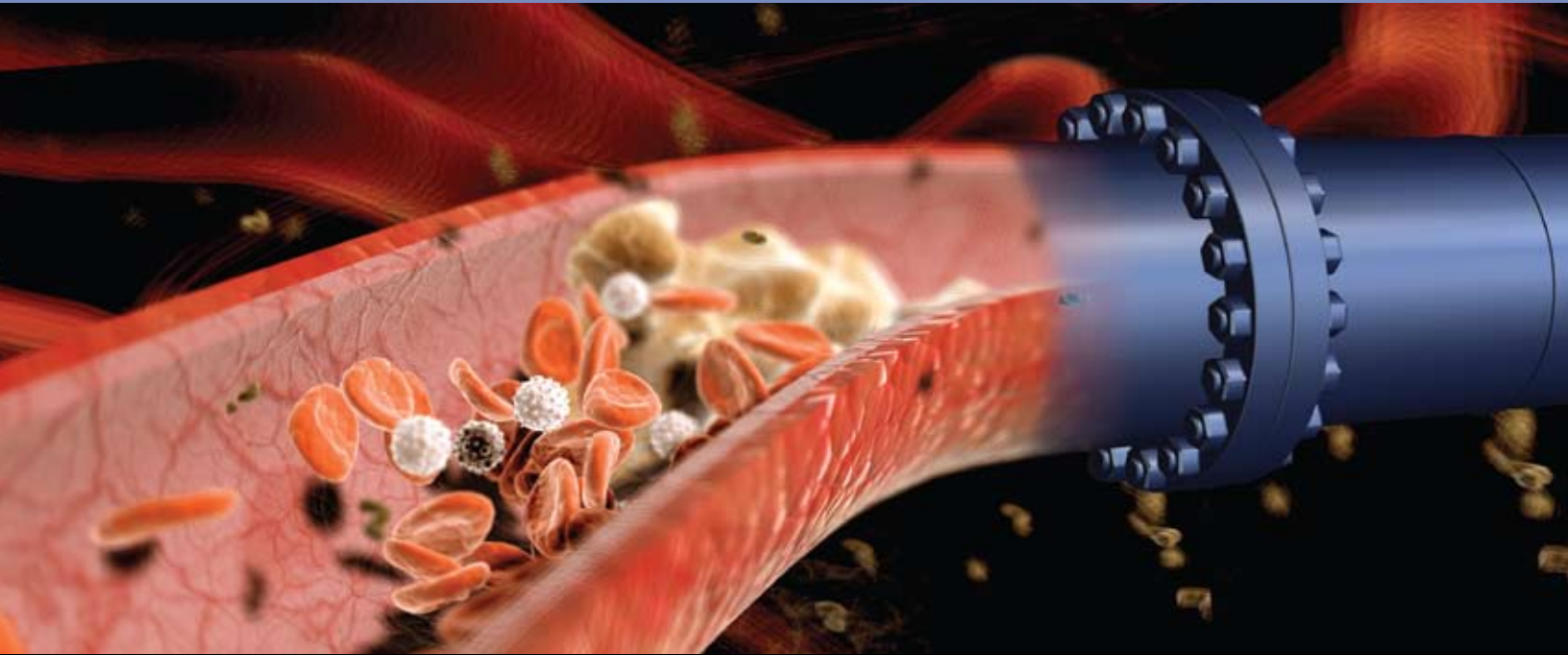


# Pumps & Pipes 3: *Better Together*



**Monday, December 7, 2009**

University of Houston | PGH 232

*A unique collaborative initiative between Houston's largest industries designed to explore potential crossover ideas and technologies.*

**Methodist**  
DeBakey Heart  
& Vascular Center<sup>SM</sup>



**ExxonMobil**



# Pumps & Pipes 3: *Better Together*

## Program Directors

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### Ioannis Kakadiaris, Ph.D.

Eckhard Pfeiffer Professor, University of Houston

### Stephen R. Igo

Director, Technology Development  
Methodist DeBakey Heart & Vascular Center

**DECEMBER 7, 2009**

**Conference Room PGH232**

- 7:30 - 8:00 Registration and Breakfast  
8:00 - 8:10 **Welcome & Conference Inspiration**  
Alan B. Lumsden, M.D., William E. Kline, Ph.D.  
and Ioannis Kakadiaris, Ph.D.

## **SESSION I: Pumps & Circuits – Tales From the Toolbox**

### *Indestructible Pumps – Here's the Idea...*

- 8:10 - 8:25 **Ideas Everywhere: My P&P Clippings File**  
Thomas Lindsey  
ExxonMobil  
8:25 - 8:40 **A New Idea for Supporting the Heart**  
Basel Ramlawi, M.D.  
Methodist DeBakey Heart & Vascular Center

### *Nanotechnology & Robotics – Fantastic Voyage*

- 8:40 - 8:55 **Anything You Can Do, I Can Do Smaller**  
8:55 - 9:10 **I, Robot – Going New Places, Doing New Things**  
Jean Bismuth, M.D.  
Methodist DeBakey Heart & Vascular Center

### *Distant Monitoring & Surveillance – Reach Out & Touch Someone*

- 9:10 - 9:25 **You Think Your Long Distance Bill is High?**  
William Standifird  
Halliburton  
9:25 - 9:40 **Sensors: Please Call Home!**  
Rebecca Seidel and Steve Glinski  
Medtronic  
9:40 - 10:00 Break  
10:00 - 10:30 **Panel Roundtable Session I: Pumps & Circuits**

- 10:30 - 11:25 **Interactive Break-out Workshops Session I**  
11:25 - 11:40 **Moderators' Summary Session I**  
11:40 - 12:00 Break – Pickup Lunch Boxes  
12:00 - 1:00 **Lunch and Guest Speaker**  
Joe Cunningham, M.D.  
Santé Ventures

## **SESSION II: Pumps & Fluids – Across the Backyard Fence**

### *Managing Imperfect Conduits – 40 Miles of Bad Roads*

- 1:00 - 1:15 **Stent Technology: Keeping the Road Open**  
Michael Nilson  
Gore Medical Products  
1:15 - 1:30 **Porous Media Flow: When Google Map is Not Enough**  
Karsten Thompson, Ph.D.  
Louisiana State University

### *Intelligent Conduits – Where All Conduits are Above Average*

- 1:30 - 1:45 **Field of the Future**  
Bill Blosser  
British Petroleum  
1:45 - 2:00 **From Blood Vessels to Pipelines**  
Peter Stonebridge, M.D.  
Tayside Medical Ltd. and Dundee University

### *Advanced Materials – The Devil Wears Prada*

- 2:00 - 2:15 **Designer Materials I**  
Rustom Mody, Ph.D.  
Baker Hughes  
2:15 - 2:30 **Designer Materials II**  
2:30 - 2:50 Break  
2:50 - 3:20 **Panel Roundtable Session II: Pipes & Fluids**  
3:20 - 4:15 **Interactive Breakout Workshops Session II**  
4:15 - 4:30 **Moderators' Summary Session II**  
4:30 - 4:50 Break  
4:50 - 5:10 **Bringing People and Ideas Together: NSF I/UCRC on Pumps & Pipes**  
Ioannis Kakadiaris, Ph.D.  
University of Houston  
5:10 - 5:30 **Closing Remarks**  
Dr. Renu Khator  
University of Houston Chancellor & President  
5:30 - 5:45 **Pumps & Pipes 3 Wrap-Up**  
William Kline, Ph.D. and Alan Lumsden, M.D.  
5:45 Social Hour and Reception