Earl E. Bakken Surgical Device Symposium 2017
The 10th Anniversary Celebrating Innovations in Cardiac Devices
University of Minnesota
Thursday, December 7, 2017

7:15 a.m.  Registration and Breakfast

8:00  Welcome to 10th Year Anniversary of the Bakken Symposium
Rose Kelly, MD, C. Walton and Richard C. Lillehei Professor and Chief,
Division of Cardiothoracic Surgery, University of Minnesota

40th Anniversary of Heart Transplant at University of Minnesota
Sarah Shumway, MD, Professor and Vice-Chair, Division of Cardiothoracic Surgery
University of Minnesota

A Message from Earl Bakken
Paul Iaizzo, PhD, Professor of Surgery, Associate Director for the Institute for Engineering in Medicine,
Medtronic Professor for Visible Heart Research, University of Minnesota

Session 1 – The innovation process: Defining the Need and Clinical Application

Moderators:  Herb Ward, MD, PhD, Professor of Surgery, Division of Cardiothoracic Surgery,
University of Minnesota
Matthew Soule, MD, Assistant Professor of Surgery, Division of Cardiothoracic Surgery,
University of Minnesota

8:20  “Device Commercialization and MN IP”
Kevin S Anderson, Technology Licensing Officer MedTech Licensing, Office for Technology
Commercialization, University of Minnesota

8:45  “Preclinical considerations in the transcatheter valve world: is there a gold standard?”
Sarah Ahlberg, PhD, Research Manager, Research Innovation, Coronary and Structural Heart,
Medtronic, Minneapolis, MN

9:10  “The Road to a Better Transcatheter Aortic Valve”
Robert Wilson, MD, Professor of Medicine, Cardiovascular Division, University of Minnesota

9:35  KEYNOTE LECTURE:  “Medical Device Innovation Process”
William Durfee, PhD, Professor and Director of Design Education, Department of Mechanical
Engineering, University of Minnesota

10:15  Discussion

10:25  Refreshment Break
Session 2 – Industry Collaboration for the Development of Cardiac Devices

Moderators: Anthony Azakie, MD, Professor, Congenital Heart Surgery, University of Minnesota
Andrew Shaffer, MD, Assistant Professor of Surgery, Cardiothoracic Surgery, University of Minnesota

10:45 a.m.  **KEYNOTE LECTURE**: “The Future of Artificial Heart Technology”
O.H. “Bud” Frazier, MD, Director of Cardiovascular Surgery Research, Texas Heart Institute, Houston, TX

11:25  **“Clinical Testing of Cardiac Devices and Physician Training”**
Paul A. Iaizzo, PhD, Professor of Surgery, Associate Director for the Institute for Engineering in Medicine, Medtronic Professor for Visible Heart Research, University of Minnesota

11:50  **“The Clinical Innovator Collaborating with Industry: Pitfalls and Successes”**
Boaz Avital, MD, PhD, FACC, FHRS, Professor of Medicine, The University of Illinois at Chicago

12:15 p.m.  **“The Corporate View of Technology Assessments and Acquisitions”**
Tim Laske, PhD, Vice President AF Solution, Medtronic, Inc., Adjunct Professor, Department of Surgery, University of Minnesota

12:40  Discussion

12:50-1:50 p.m.  **Lunch Break**

Session 3 – Clinical Innovation and New Technologies

Moderator: Stephen Huddleston, MD, Assistant Professor, Cardiothoracic Surgery, University of Minnesota

1:50 p.m.  **KEYNOTE LECTURE**: “Ex-vivo Physiologic Preservation and Assessment of Donor Organ For Transplantation – From Concept to Clinical Practice”
Waleed Hassanein, MD, CEO TransMedics, Inc.

2:30  **“Innovations in Congenital Heart Surgery”**
Anthony Azakie, MD, Professor, Congenital Heart Surgery, University of Minnesota

2:55  **“Clinical Device Development”**
Marat Yanavitski, MD, HealthEast Cardiology

3:20  **“LVADS and Clinical Trials: HeartMate III Story”**
Ranjit John, MD, Professor of Surgery, Cardiothoracic Surgery, University of Minnesota

3:45  Discussion

4:00  Adjourn