7:15 a.m. Registration and Breakfast

7:45 a.m. **A Message from Dr. Earl Bakken** delivered by **Paul Iaizzo, PhD**, Course Co-Director
Professor of Surgery, Associate Director for the Institute for Engineering in Medicine, Medtronic Professor for Visible Heart Research, University of Minnesota

**Sayeed Ikramuddin, MD, MHA** – *Surgery Department Welcome*
Jay Phillips Professor and Chair, Department of Surgery, University of Minnesota

**Kenneth K. Liao, MD, PhD**, Course Co-Director – *Symposium Introduction*
Professor of Surgery, Division of Cardiothoracic Surgery, Surgical Director of Heart Transplantation, University of Minnesota

8:00 a.m. **KEYNOTE LECTURE**
**Arthur Matas, MD**, Professor of Surgery and Director of Renal Transplant Program, University of Minnesota – *“History of Transplantation at the University of Minnesota”*

**Session 1 – Kidney and Pancreas Transplantation**

**Moderator:** **Raja Kandaswamy, MD**
Professor of General & Transplant Surgery, University of Minnesota

8:40 **Session Keynote Lecture:** **Enrico Benedetti, MD**, Chairman, Department of Surgery, University of Illinois at Chicago
*“Robotic Surgery in Transplantation”*

9:10 **Raja Kandaswamy, MD**, Professor, General & Transplant Surgery, University of Minnesota
*“Kidney and Pancreas Transplantation at the University of Minnesota”*

9:30 **Melena Bellin, MD**, Associate Professor Pediatric Endocrinology, University of Minnesota, Schulze Diabetes Institute, Director of Research Islet Autotransplant Program
*“Evolving Technologies in the Treatment of Diabetes”*

9:50 **Ahmad AbuSalah, MSc, PhD**, Director of Clinical Informatics in the Clinical and Translation Science Institute (CTSI), Research Assistant Professor, Institute for Health Informatics (IHI), University of Minnesota
*“Biomedical Informatics Infrastructure for the Support of Clinical and Translational Research”*

10:10 Panel Discussion

10:20 **Refreshment Break**
Session 2 – Liver Transplantation

Moderator: Srinath Chinnakotla, MD, Professor of Surgery, Surgical Director of Liver Transplantation, Clinical Director of Pediatric Transplantation, University of Minnesota

10:40 Session Keynote Lecture: Ki-Hun Kim, MD, PhD
Professor and Chief, Division of Hepatobiliary Surgery and Liver Transplantation, Department of Surgery, Ulsan University and Asan Medical Center, Seoul, Republic of Korea
“Living Donor Liver Transplantation: Evolution of Devices for Parenchymal Transection”

11:10 Varvara Kirchner, MD, Assistant Professor, Transplant Surgery, University of Minnesota
“Stem Cell Technology for Liver Transplantation”

11:30 Erik Finger, MD, PhD, Assistant Professor, Transplant Surgery, University of Minnesota
“Nano Technology for Preserving Livers”

11:50 Ivan Linares, MD, Senior Fellow, Multi Organ Transplant Program, Toronto General Hospital
“Normothermic Perfusion of the Liver: Current State Art”

12:10 Panel Discussion

12:30-1:30 p.m. Lunch Break

Session 3 – Heart and Lung Transplantation

Moderators: Kenneth K. Liao, MD, PhD, Professor of Surgery and Surgical Director of Heart Transplantation, University of Minnesota, Minneapolis
Rosemary Kelly, MD, Chief, Division of Cardiothoracic Surgery, C. Walton and Richard C. Lillehei Professor, Department of Surgery, University of Minnesota

1:30 Session Keynote Lecture: Ralph Morton “Chip” Bolman III, MD, Professor Emeritus, Division of Cardiothoracic Surgery, University of Vermont, Burlington
“Historical Development and Progress of Heart Transplantation”

2:00 Ranjit John, MD, Professor of Surgery, University of Minnesota, Minneapolis, MN
“Technology that Assists in Patient Care Prior to Transplant”

2:20 Marshall Hertz, MD, Judith H. and John M. Murphy Professor of Medicine, Division of Pulmonology, University of Minnesota, “Lung Transplantation—What Will Gen 3 Be Like?”

2:40 Stephen Huddleston, MD, PhD Assistant Professor and Director of Lung Transplantation, University of Minnesota, “The Evolving Role of Organ Care Systems in Lung Transplantation”

3:00 Panel Discussion

3:10 Refreshment Break

3:20 Dr. Yoshio Sako Named Lecture
William E. “Billy” Cohn, MD, Professor of Surgery, Cardiothoracic Transplantation & Circulatory Support, Baylor College of Medicine, Houston, TX
Director, Center for Device Innovation, TMC/Johnson & Johnson Innovation
“Emerging Technologies Utilized to Generate Next Generation Medical Devices: Computational Modeling, Virtual Prototyping and 3D Printing”

4:00 ADJOURN