On January 30, 1948, a young Assistant Professor of Surgery at the Medical University of South Carolina made medical history by successfully removing scar tissue from a heart valve of a young, incapacitated girl who had been given but a brief time to live. The technique employed by the 34-year old Horace G. Smithy was based upon two years of exhaustive research experimentation. Dr. Smithy’s research included the design of a new instrument, known as a valvulotome, to cut scar tissue blocking heart valves of rheumatic fever victims. He subsequently operated upon six additional patients, four of whom survived.

Tragically, Dr. Smithy himself had valvular heart disease as a result of rheumatic fever during childhood, and his condition began rapidly deteriorating in 1948. He requested a noted surgeon at The Johns Hopkins Hospital to carry out the procedure on him, but before this could be arranged, Dr. Smithy died on October 28, 1948.

Dr. Smithy’s premature death deprived Charleston and the Medical University of South Carolina the opportunity to become an early center for cardiac surgery. However, from his pioneering efforts, enormous progress has been made. Today, reliable prosthetic heart valves are widely available and surgery for valvular heart disease is standardized and carries a very low risk in most individuals.

PAST LECTURERS

1989 William A. Gay, Jr. MD
   “Cardiac Transplantation: Expectations and Realities”
1991 W. Randolph Chitwood, Jr. MD
1992 David C. Sabiston, Jr. MD
   “Coronary Circulation: 1992”
1993 John A. Waldhausen, MD
   “Circulatory Support and the Artificial Heart”
1994 Gordon F. Murray, MD
   “Operative Management of Esophageal Motor Disorders”
1995 Robert W. Anderson, MD
   “Managed Care and Surgery”
1996 Mark B. Orringer, MD
   “Transhiatal Esophagectomy Without Thoracotomy - Avoiding and Managing Complications”
1997 Douglas J. Mathisen, MD
   “Tracheobronchoplasty for Lung Cancer”
1998 Marvin Pomerantz, MD
   “Surgical Approaches in the Treatment of Mycobacterial Disease”
1999 James P. O’Leary, MD
   “Post-Gastrectomy Syndrome: Will Another Operation Help?”
2000 William A. Baumgartner, MD
   “Retooling Thoracic Surgery Education”
2001 James L. Cox, MD
   “A New Approach to Artificial Heart Valves”
2002 Barbara L. Bass, MD
   “The New Surgical Workforce: Recruiting and Developing Women Surgeons”
2003 Timothy J. Gardner, MD
   “Cardiac Surgery and the Brain - The Real Faces”
2004 D. Craig Miller, MD
   “What We Know and What We Don’t Know About Valve-Sparing Aortic Root Replacement”
2005 David A. Fullerton, MD
   “Control of Post-Operative Pulmonary Hypertension”
2006 Irving L. Kron, MD
   “Surgery for Heart Failure”
2007 Douglas E. Wood, MD
   “Lung Volume Reduction Surgery: Before & After NETT”
2009 Tirone E. David, MD
   “Creativity in Surgery”
2010 Alexander G. Patterson, MD
   “Tribal Leadership in Surgery”
2011 Leonard Lee Bailey, MD
   “A Evolution of Infant Heart Transplantation”
2012 Lawrence H. Cohn, MD
   “How to be a Safe & Effective Cardiac Surgeon”
Monday, October 14, 2013

6:45am  Breakfast with General Surgery and CT Residents  
        Palmetto Cafe at Charleston Place Hotel  
        General Surgery Chief Residents  
        Dr. Marcie Dorlon, Administrative Chief  
        Dr. Brent Jewett  
        Dr. Christa Jillard  
        Dr. Mark Onady  

Cardiothoracic Surgery Residents  
Dr. Scott Hittinger, CT Surgery  
Dr. Scott Johnson, CT Resident  
Dr. Robert “Kyle” Thompson, CT Resident  
Dr. Jeffrey Griffin, CT Resident  
Dr. Walter DeNino, CT Resident  
Dr. Daniel Eads, CT Resident  
Dr. Tom Theruvath, CT Resident  
Dr. Matteo Trezzi, Peds CT Fellow  

Research Presentations  
MUSC Institute of Psychiatry Auditorium  

9:15 am  Adam Akerman, MS  PhD-1  
         MicroRNA-133a Mediated Regulation of Membrane Type-1 Matrix Metalloproteinase in Myocardial Fibroblasts: Differential Effects in Dilated Cardiomyopathy  

9:35 am  Adam Franklin, MD  PGY-3  
         Role of Membrane type-1 Matrix Metalloproteinase in Persistent Left Ventricular Remodeling with Postpartum Cardiomyopathy  

9:55 am  Christopher Carter, BS  CHP-2  
         Ultrafiltration to Remove Dabigatran During Cardiopulmonary Bypass in an Animal Model of Renal Failure  

10:15 am  Jason Wheeler, MD, MSCR  PhD-2  
          Effects of Aging and Gender on Murine Thoracic Aortic Structure and Mechanical Properties  

10:35 am  Refreshment Break  

10:55 am  Stewart Russ Richardson, BS  MS-2  
          Role of Membrane type-I Matrix Metalloproteinase in Clinical Thoracic Aortic Aneurysms  

Tuesday, October 15, 2013

7:00 am  2013 Horace G. Smithy Lectureship  
         Storm Eye Institute Auditorium, HA 809  

"The Future of Transplantation: Personalized Medicine for the Organ"  

Shafique Keshavjee, MD, MSc, FRCSC, FACS  
Surgeon in Chief, Sprott Department of Surgery at University Health Network  
James Wallace McCutcheon Chair in Surgery  
Director, Toronto Lung Transplant Program  
Professor, Institute of Biomaterials & Biomedical Engineering  
University of Toronto  

Shaf Keshavjee is a Thoracic surgeon and Director of the Toronto Lung Transplant Program. He is Surgeon-in-Chief, James Wallace McCutcheon Chair in Surgery at University Health Network in Toronto, and Professor Division of Thoracic Surgery and Institute of Biomaterials and Biomedical Engineering at the University of Toronto.

Dr. Keshavjee completed his medical training at the University of Toronto in 1985. He subsequently trained in General Surgery, Cardiac Surgery and Thoracic Surgery at the University of Toronto followed by fellowship training at Harvard University and the University of London for airway surgery and heart-lung transplantation respectively. He joined the faculty at the University of Toronto in 1994 and was promoted to full professor in 2002. Dr. Keshavjee served as the Chair of the Division of Thoracic Surgery at the University of Toronto from 2004 to 2010. He was also the inaugural holder of the Pearson-Ginsberg Chair in Thoracic Surgery.

Dr. Keshavjee's clinical practice is in thoracic oncology, lung cancer and lung transplantation. He has a passion for surgery and innovative research. He is a scientist in the McEwen Center for Regenerative Medicine at UHN. He leads a team of researchers in a leading research program and is widely published in the field. His specific research interest is in lung injury related to transplantation. He is current work involves the study of molecular diagnostics and gene therapy strategies to repair organs and to engineer superior organs for transplantation.