

CURRICULUM VITAE

Date Prepared: Friday, April 26, 2013
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Education

1975-1979	B.A.	Biochemistry	Princeton University
1980-1984	M.D.	Medicine	Johns Hopkins University

Postdoctoral Training

1984-1985	Internship	General Surgery	Massachusetts General Hospital
1985-1987	Junior Resident	General Surgery	Massachusetts General Hospital
1987-1989	Fellowship	Immunology	National Cancer Institute, National Institute of Health
1989-1993	Senior Resident	General Surgery	Massachusetts General Hospital
1991-1993	Residency	Thoracic Surgery, Division of Cardiothoracic Surgery	Washington University School of Medicine
1993-1994	Senior Registrar	Cardiac Surgery	Harefield Hospital

Faculty Academic Appointments

10/1994 – 6/1999	Assistant Professor	Div of Cardiothoracic Surgery, Department of Surgery	Washington University School of Medicine, St. Louis MO
10/1999 – 6/2001	Associate Professor	Division of Cardiothoracic Surgery, Department of Surgery	Washington University School of Medicine, St. Louis MO
10/2001- 04/2004	Associate Professor of Surgery	College of Medicine	Mayo Clinic, Rochester MN
04/2004 - 1/2011	Professor of Surgery	College of Medicine	Mayo Clinic, Rochester MN
02/2011 – 04/2011	Lecturer	Surgery	Harvard Medical School, Boston MA Division of Cardiac Surgery MGH
04/2011 –	Professor of Surgery	Surgery	Harvard Medical School, Boston MA
04/2011 -	Edward D. Churchill Professor of Surgery	Surgery	Harvard Medical School, Boston MA

Appointments at Hospitals/Affiliated Institutions

4/1994 – 9/1994	Honorary Consultant	Department of Cardiac Surgery,	Harefield Hospital, Harefield, United Kingdom
4/1994 – 9/1994	Senior Lecturer	Department of Cardiothoracic Surg.	National Heart and Lung Institute, London, United Kingdom
10/1994 – 6/1996	Staff Member		Barnes Hospital, St. Louis MO
10/1994 – 6/1996	Staff Member		Jewish Hospital of St. Louis, St. Louis MO
10/1994 – 6/2001	Staff Member		Saint Louis Children's Hospital, St. Louis MO
10/1995 – 6/2001	Surgical Consultant		John Cochran VA Hospital, St. Louis MO
7/1996 – 12/1996	Cardiothoracic Surgeon-in-Chief		Barnes-Jewish Hospital, St. Louis MO
7/1996 – 6/2001	Staff Member		Barnes-Jewish Hospital, St. Louis MO
6/1998 – 6/2000	Medical Director	Cardiothoracic Surg. Step-Down Unit	Barnes-Jewish Hospital St. Louis MO
6/1998 – 6/2001	Surgical Director	Heart-Lung Transplant Services	Washington University School of Medicine, St. Louis MO
6/2000 – 6/2001	Surgical Director	Center for Thoracic Aortic Diseases,	Washington University School of Medicine, St. Louis MO
6/2000 – 6/2001	Surgical Director	Transmyocardial Laser Revascularization Program	Washington University School of Medicine, St. Louis MO
7/2001 - 6/2004	Senior Associate Consultant	Division of Cardiovascular Surgery, Department of Surgery	Mayo Clinic, Rochester MN
7/2001 – 1/2011	Staff Member		Saint Mary's Hospital, Rochester MN
7/2004 – 1/2011	Director	Cardiovascular Surgical Research Laboratory, Division of Cardiovascular Surgery, Department of Surgery	Mayo Clinic, Rochester MN
7/2004 - 1/2011	Consultant	Division of Cardiovascular Surgery, Department of Surgery	Mayo Clinic, Rochester MN
6/2005 – 5/2007	Vice Chair for Clinical Practice	Department of Surgery	Mayo Clinic, Rochester MN
0/2005 - 6/2007	Master's Faculty Privileges in Clinical Research	Mayo Graduate School, College of Medicine,	Mayo Clinic, Rochester MN

7/2006 - 1/2011	Co-Director	Marfan and Thoracic Aortic Clinic, Division of Cardiovascular Diseases, Department of Internal Medicine	Mayo Clinic, Rochester MN
05/2007 - 1/2011	Vice Chair	Department of Surgery	Mayo Clinic, Rochester MN
06/11/2007 - 01/31/2011	Master's Faculty Privileges in Clinical & Translational Science -	Mayo Graduate School, College of Medicine, Mayo Clinic	Mayo Clinic, Rochester MN
2011-	Visiting Surgeon	Division of Cardiac Surgery	Massachusetts General Hospital, Boston MA
02/2011 -	Chief, Cardiac Surgical Division	Division of Cardiac Surgery	Massachusetts General Hospital, Boston MA

Major Administrative Leadership Positions

2011-	Chief, Cardiac Surgical Division	Massachusetts General Hospital, Boston MA
2011-	Co-Director Heart Center	Massachusetts General Hospital, Boston MA
2011-	Co-Director, Institute for Heart, Vascular and Stroke	Massachusetts General Hospital, Boston MA

Professional Societies

1997-	American Association for Thoracic Surgery Member
2002-2008	Web Editor
2007-2008	Secretary-elect
2008-	Secretary
	AATS Representative on the CTSnet Board
2005-	Member Ad Hoc Research Advisory Committee
2002-2003	Member E-Editor of JTCVS
2007-2008	Member
2012-	Member
2008-	Graham Education and Research Foundation President
2007-	Program Committee Member
2011-	CTSnet Board of Directors President
2001- 20002-2008	American College of Cardiology Fellow Cardiac Catheterization and Intervention Committee Member
1995-1998	
1998- 2004-	American College of Surgeons Associate Fellow Fellow
2007-	Advisory Council Member Advisory Council for Cardiothoracic Surgery Member
	American Heart Association
1998- 2002-	Council on Cardio-Thoracic and Vascular Surgery

2002-2004	Member Fellow Program Committee Member
2001	Great America Consortia Peer Review Committee Member
2004	Leadership Committee of the Council on Cardiovascular Surgery and Anesthesia Member
2002-2004	Radiology and Surgery Study Group National Peer Review Committee Member
1995-1999	American Medical Association Member
1995-2003	American Society of Transplant Surgeons Member
2004-	American Surgical Association Member
1996-2004	Association of Academic Surgery Member
1995-2001	Barnes-Jewish Hospital Ethics Committee Member
1995-1996	Heart Services CABG Patient Satisfaction Improvement Team Member
1996-2001	Infection Control Committee Member
1996-1997	Joint Office of Strategic Planning Member
1996-1997	Health Services Clinical Service Line Service Quality Design Team Co-Chair
1996-1999	Medical Staff Association Advisory Council Member
2001-	Cardiac Surgery Biology Club Member
2009-	Ehler-Danlos National Foundation Advisory Panel Member
2005-	Heart Valve Society of America Member
1995-2005	International Society For Heart and Lung Transplantation Member
2005	National Institutes of Health, National Heart, Lung And Blood Institute; Working Group on Thoracoabdominal Aortic Aneurysm Co-chair Member
2003-	Priestley Society Member

1979	Sigma Xi, The Scientific Research Society Member
2002-2003	Mayo Clinic Chapter Credentials Committee
2002-2005	Member Executive/Electoral Committee
2002-2003	Member Membership Committee
1975-1979	Member
1975-1979	Princeton University Chapter Associate Fellow
2007-	Member
2012-	Society of Cardiothoracic Surgery in Great Britain and Ireland Honorary Member
2001-	Society for Thoracic Surgical Education Member
2001-2002	Society for Vascular Surgery Member
2007-	Society of Thoracic Surgeons Annals Liaison Committee Member
1998-2002	Council on Quality, Research and Patient Safety Workforce on Media Relations and Communications Member
1997-2001	Information Technology Committee Member
2010-	Professional Affairs Committee Public Affairs/Patient Advocacy and Media Affairs Subcommittee Member
2002-2008	Workforce on Media Relations and Communication
2002-2008	Member
2002-2003	Workforce on Patient Advocacy, Communication and Patient Safety Chair Member
2001-	Workforce on Publications Member
2010-	Society of University Surgeons Member
1998-	Southern Surgical Association Member
2000-2003	Southern Thoracic Surgical Association Member
2003	Program Committee Member Chair
1997-2001	St. Louis Surgical Society Member
1998-2001	St. Louis Thoracic Surgical Society Member

	Thoracic Surgery Foundation for Research and Education
	Education Committee
2004-2010-	Member
	Chair
	Research Committee
2004-	Member

Grant Review Activities

Active Grants

Federal

01/2005 - 12/2010	Program Director / Principal Investigator	Aortic Valve Operative Outcomes in Marfan Patients. Funded by ECOG. (MARFAN #2)
03/2009 - 02/2012	Co-Investigator	Human Senescence and Cardioprotection. Funded by National Institutes of Health. (R01 HL 89542)

Industry

02/2006 - 01/2010	Program Director / Principal Investigator	Prophylactic Cox-maze procedure utilizing bipolar radiofrequency ablation in patients undergoing mitral valve surgery. Funded by Medtronic Incorporated.
06/2006 - 05/2009	Program Director / Principal Investigator	MMV AGREEMENT--Plavix for thromboembolism prophylaxis in a heterotopic porcine model of mechanical heart valve replacement. Funded by St. Jude Medical, Inc.
04/2007 - 03/2012	Program Director / Principal Investigator	A Phase II Clinical Study of the Safety and Efficacy of the Relay Thoracic Stent-Graft in Patients with Thoracic Aortic Pathologies. Funded by Bolton Medical Inc. (Protocol Number: IP-0004-06)
07/2007 - 06/2012	Program Director / Principal Investigator	Medtronic Concomitant Utilization of Radio Frequency Energy for Atrial Fibrillation (CURE-AF) Study. Funded by Medtronic Incorporated. (IDE#G060220/S1 CURE-AF)
09/2007 - 08/2012	Program Director / Principal Investigator	Medtronic Concomitant Utilization of Radio Frequency Energy for Atrial Fibrillation (CURE-AF) Study in: PERSISTENT: Medtronic Concomitant Utilization of Radio Frequency Energy for Atrial Fibrillation (CURE-AF) Study. Funded by Medtronic Incorporated.
03/2004 - 06/2009	Co-Investigator	Evaluation of the Medtronic Vascular Talent Thoracic Stent Graft System for the Treatment of Thoracic Aortic Aneurysms. Funded by Medtronic Vascular. (VALOR Trial)
07/2005 - 07/2011	Co-Investigator	Synergy Between PCI with TAXUS and Cardiac Surgery (SYNTAX Trial) (IRB 1268-05). Funded by Boston Scientific Corporation. (SYNTAX STUDY)
09/2008 - 08/2013	Co-Program Director / Principal Investigator	PARTNER - CV Surgery Cost Share Budget in: THE PARTNER TRIAL: Placement of AoRTic TraNscathetER Valves Trial. Funded by Edwards Life Sciences. (2006-06-US)

09/2008 - 08/2013	Co-Program Director / Principal Investigator	PARTNER - CV Cath Lab Cost Share Budget in: THE PARTNER TRIAL: Placement of AoRTic TraNscathetER Valves Trial. Funded by Edwards Life Sciences. (2006-06-US)
09/2008 - 08/2013	Co-Program Director / Principal Investigator	Placement of Aortic Transcatheter Valves Trial in: THE PARTNER TRIAL: Placement of AoRTic TraNscathetER Valves Trial. Funded by Edwards Life Sciences. (2006-06-US)
01/2010 - 12/2016	Co-Investigator	Evaluation of the GORE Conformable TAG Thoracic Endoprosthesis for the Primary Treatment of Aneurysm of the Descending Thoracic Aorta. Funded by W.L. Gore & Associates Incorporated. (TAG 08-03)
01/2010 - 12/2016	Co-Investigator	Cost Share Budget-Evaluation of the GORE Conformable TAG Thoracic Endoprosthesis for the Primary Treatment of Aneurysm of the Descending Thoracic Aorta in: Evaluation of the GORE Conformable TAG Thoracic Endoprosthesis for the Primary Treatment of Aneurysm of the Descending Thoracic Aorta. Funded by W.L. Gore & Associates Incorporated. (TAG 08-03)
09/2010 - 08/2015	Co-Investigator	Zenith TX2 Low Profile TAA Endovascular Graft Clinical Study. Funded by Cook Incorporated. (CIP No. 10-001)

Completed Grants

Federal

07/2001 - 06/2005	Principal Investigator	Prediction of Myocardial Recoverability with 3D MRI. Funded by National Heart, Lung, and Blood Institute. (R01 HL 62291)
08/1999 - 07/2003	Co-Investigator	Surgical Treatment of Cardiac Arrhythmias. Funded by NIH/NHLBI. (5 R01 HL32257-19)
03/2008 - 09/2008	Co-Investigator	Human Senescence and Cardioprotection. Funded by National Heart, Lung, and Blood Institute. (R01 HL 89542)

Foundation

07/1994 - 06/1996	Principal Investigator	Development of a Large Animal Model of Bronchiolitis Obliterans. Funded by Thoracic Surgery Foundation.
09/1999 - 07/2001	Co-Investigator	Aortic Dissection: A Biomechanical Approach. Funded by The Whitaker Foundation. (RG-98-0487)

Industry

06/1996 - 06/1999	Principal Investigator	Effect of Transmyocardial Laser Revascularization on Cardiac Innervation. Funded by Cardiogenesis Corporation. (12336594446)
01/2002 - 12/2004	Principal Investigator	Anticoagulation After Tissue AVR (Aortic Valve Replacement). Funded by Baxter Healthcare Corporation. (EDWARDS #4)
05/2002 - 04/2004	Principal Investigator	Evaluation of the Medtronic Hemostat Bipolar Radiofrequency Ablation Device in the Surgical Maze III Procedure. Funded by Medtronic Incorporated. (MEDTRONIC #108)

02/2005 - 01/2006	Principal Investigator	Cardioblade BP Ablation System Clinical Study for Treatment of Atrial Fibrillation (IRB 737-05). Funded by Medtronic Incorporated. (MEDTRONIC #128; 1A5611)
04/2005 - 06/2006	Principal Investigator	MMV Agreement--Bypass Pump Observation Study. Funded by Sorin Group. (COBE #3; 1A5754)
06/2005 - 05/2007	Principal Investigator	Funding of Basic Science in Research Lab. Funded by CarboMedics, Inc. (CARBOMEDICS #4; RRA16J)
01/2003 - 12/2003	Co-Investigator	Evaluation of a Composite (PTFE-Titanium) Graft for Coronary Artery Bypass Procedures. Funded by CABG Medical. (CABG #1; 1A4559)

Mayo Clinic

07/2002 - 06/2005	Principal Investigator	Genomic Expression Array Analysis of Ascending Aortic Aneurysms. Funded by Mayo Foundation.
10/2006 - 09/2007	Co-Investigator	Measuring the Effect of Massage Therapy on Pain, Anxiety and Tension in Cardiac Surgery Patients. Funded by Mayo CR20 Funding.

PATENTS

Title	Patent number	Date filed	Date issued
Transapical Heart Port	US 61027291	02/08/2008	Pending
Inventors: Thoralf M. Sundt III, Brent R. Phillips			

Honors and Prizes

1979	Summa Cum Laude	Princeton University
1979	E.R. Squibb and Sons Book Award	Princeton University
1984	Alpha Omega Alpha	The Johns Hopkins University
1994	Robert E. Gross Scholar	American Association for Thoracic Surgery
2011	Edward D. Churchill Award	Massachusetts General Hospital

Report of Local Teaching and Training

06/2003	Medical and Surgical Controversies in Cardiovascular Disease: The Aorta and Peripheral Vessels Mayo School of CME, Rochester MN
07/2003	Bakken Roundtable Patient Safety Symposium Society of Thoracic Surgeons Workforce on Patient Advocacy, Communications and Patient Safety St. Paul MN
05/2005	Medical and Surgical Controversies in Cardiovascular Disease: The Aorta and Peripheral Vessels Mayo School of CME Rochester MN
10/2006	Human Factors in Healthcare: Practical Applications to Improve Patient Safety Mayo Clinic College of Medicine Rochester MN

- 10/2007 Human Factors in Healthcare: Practical Applications to Improve Patient Safety
Mayo Clinic College of Medicine
Rochester MN
- 05/2008 Controversies in Cardiovascular Disease - Practical Approaches to Complex Problems:
Medical and Surgical
Mayo Clinic College of Medicine CME
Saint Paul MN
- 10/2008 Applying Human Factors in Health Care:
Leveraging Multidisciplinary Approaches to Improve Patient Safety
Mayo School of Continuing Medical Education in cooperation with
Mayo Continuing Nursing Education
Rochester MN
- 05/2009 Controversies in Cardiovascular Disease - Practical Approaches to Complex Problems:
Medical and Surgical
Mayo Clinic College of Medicine CME
Saint Paul MN
- 08/2009 25th National Marfan Foundation Annual Conference
Course Co-Director--Recognition and Treatment of Marfan Syndrome and Related
Disorders: A Unique Perspective from Patients, Families and Experts
Rochester MN
- 09/2009 14th Annual Mayo Clinic Conference on Quality, Safety and Service:
A Focus on Human Factors and Medical Error
Mayo Foundation for Medical Education and Research
Rochester MN

Teaching

- 1995 Aortic Root Replacement: Current Options and Strategies
Contemporary Cardiothoracic Surgery Conference
St. Louis MO
- 1995 Current Role of Combined Heart/Lung Transplant
Contemporary Cardiothoracic Surgery Conference
St. Louis MO
- 1995 The Place of Cardiac Transplantation in the Management of End Stage Heart Disease
Contemporary Cardiothoracic Surgery Conference
St. Louis MO
- 1996 Transmyocardial Laser Revascularization
Contemporary Cardiothoracic Surgery Conference
St. Louis MO
- 1996 Aortic Valve Replacement - Decisions, Challenges and Options
Contemporary Cardiothoracic Surgery Conference
St. Louis MO
- 1997 MIDCABG and Port Access: Surgical Aspects
4th Annual Current Topics in Cardiothoracic Anesthesia Conference
St. Louis MO
- 1997 Myocardial Laser Revascularization: Surgical Aspects
4th Annual Current Topics in Cardiothoracic Anesthesia Conference
St. Louis MO
- 1997 Aortic Valve Repair and Replacement
Contemporary Cardiothoracic Surgery Conference
St. Louis MO

- 1997 Surgical Treatment of Chronic Pulmonary Thromboembolic Disease
Contemporary Cardiothoracic Surgery Conference
St. Louis MO
- 1997 Transmyocardial Laser Revascularization; An Update and Early Results
Contemporary Cardiothoracic Surgery Conference
St. Louis MO
- 1997 Mitral Valve Repair
Contemporary Evaluation and Management of Valvular Heart Disease
St. Louis MO
- 1998 Valve Surgery 1998
9th Annual Cardiology Spring Fling
St. Louis MO
- 1998 Surgical Treatment of Acute and Chronic Pulmonary Embolism
Contemporary Cardiothoracic Surgery Conference
St. Louis MO
- 1998 Minimally Invasive Cardiac Surgery
Minimally Invasive Surgery at the Millennium
St. Louis MO
- 1999 Stentless Aortic Valve Replacement
Contemporary Cardiothoracic Surgery Conference
St. Louis MO
- 2000 Optimal Use of Arterial Conduits for Coronary Artery Bypass Grafting
American College of Surgeons
Chicago IL
- 2000 Transmyocardial Laser Revascularization 5 Years On
Contemporary Cardiothoracic Surgery Conference
St. Louis MO
- 2000 Valvular Heart Disease with Left Ventricular Dysfunction: Surgical Options
Practical Management of Congestive Heart Failure
St. Louis MO
- 2000 Endovascular Therapy of Thoracic Aortic Aneurysmal Disease
Southern Thoracic Surgical Association
Marco Island FL
- 2001 Optimal Use of Arterial Conduits for Coronary Artery Bypass Grafting
American College of Surgeons
New Orleans LA
- 2001 Off Pump Coronary Bypass
Minimally Invasive Surgery in the New Millennium
St. Louis MO
- 2001 Ischemic Mitral Regurgitation: A Surgical Challenge
Mitral Valve Disease 2001: State-of-the-Art and Case Studies
Anaheim CA
- 2002 The Maze Procedure and It's Modifications for Patients with Atrial Fibrillation Undergoing Mitral Valve Repair
Postgraduate Course
American Association for Thoracic Surgery
Washington, District of Columbia

2002 Optimal Use of Arterial Grafts: 2002
American College of Surgeons
San Francisco CA

2002 Cardiac Surgical Interventions: Indications and Results
Clinical Reviews
Rochester MN

2002 Current Approaches to the Patient with Mitral Regurgitation
Mayo Clinic Update in CV Diseases
Rochester MO

2002 Medical And Surgical Perspectives On Ischemic Cardiomyopathy
Success With Failure
Whistler, British Columbia, CANADA

2002 Medical And Surgical Perspectives On Mitral Insufficiency And Heart Failure
Success With Failure
Whistler, British Columbia, CANADA

2002 Surgical Treatment of Functional MR; Repair or Replacement?
Valvular Heart Disease 2002
Rochester MO

06/2002 Aortic Valve Replacement in the Elderly: Challenges and Indications
Telecast
Cardiology Today and Tomorrow
Rochester MN

10/2002 Optimal Use of Arterial Grafts
American College of Surgeons
San Francisco CA

06/2003 Aortic Dissection and Intramural hematoma: Medical and Surgical Management Strategies
Mayo School of CME
Rochester MN

06/2003 Thoracic and Thoracoabdominal Aneurysms: Risk/Benefit Analysis with Current Techniques
Mayo School of CME
Rochester MN

06/14/2003 Thoracic and Thoracoabdominal Aneurysms: Risk/Benefit Analysis with Current Techniques.
Medical and Surgical Controversies in Cardiovascular Disease: The Aorta and Peripheral Vessels
Rochester MN

06/14/2003 Aortic Dissection and Intramural Hematoma: Medical and Surgical Management Strategies.
Medical and Surgical Controversies in Management in Cardiovascular Diseases: The Aorta and Peripheral Vessels
Rochester MN

10/03/2003 Chronic Coronary Artery Disease: Advances in Interventional Cardiology. Case Presentation.
Mayo Clinic Update in Cardiovascular Diseases. A Case-Orientated Interactive Approach
Rochester MN

10/25/2003 State of the Art in Atrial Fibrillation. Case Presentation
Mayo Clinic Update in Cardiovascular Diseases. A Case-Orientated Interactive Approach
Rochester MN

01/2004 Management Strategies for Degenerative Thoracic Aortic Aneurysms
Cardiovascular Outreach
Rochester MN

06/2004 Surgical Treatment of Ischemic MR: CABG Alone or Surgical Repair?
Valvular Heart Disease: New Strategies
Rochester MN

09/28/2004 Surgical Treatment of Type B Aortic Dissections and Penetrating Ulcers
3rd Mayo Vascular Symposium
Rochester MN

09/28/2004 Surgical Treatment of Aneurysms of the Aortic Arch and the Descending Thoracic Aorta
The 3rd Mayo Vascular Symposium
Rochester MN

02/2005 Ischemic MR: Surgical Management 2005
American College of Cardiology 10th Annual Cardiology At Cancun 2005
Cancun, Mexico

02/2005 Mitral Valve Repair for Organic MR
American College of Cardiology 10th Annual Cardiology At Cancun 2005
Cancun, Mexico

02/2005 Refractory Heart Failure: Latest Surgical Approaches
American College of Cardiology 10th Annual Cardiology At Cancun 2005
Cancun, Mexico

02/2005 Surgical Maze Procedure: Update 2005
American College of Cardiology 10th Annual Cardiology At Cancun 2005
Cancun, Mexico

10/2005 Coronary Artery Disease
Thoracic Surgery Board Review Course
American College of Surgeons
San Francisco CA

01/2006 Surgical Options for Acute Pulmonary Embolism
Critical Care Grand Rounds
Rochester MN

05/2011 Ascending Aorta and Aortic Arch Reconstruction
National Cardiac Surgery Residents Symposium, St. Jude Medical
Fellows and Residents Training Seminar
Minneapolis MN

05/2011 Techniques in Mitral/Aortic Double Valve Replacement
(Indications/Approaches/Techniques/Valve Selection)
National Cardiac Surgery Residents Symposium, St. Jude Medical
Fellows and Residents Training Seminar
Minneapolis MN

09/2011 Reparative Options for Heart Valve Disease
Mount Kisco Medical Center, Westchester Academy of Medicine
Mount Kisco NY

9/2011 Learning from our Mistakes: Complexity, Cognition and Communication
Massachusetts General Hospital – Surgical Grand Rounds
Boston MA

Mentorship

1995 - 1997 Kwong, K. F (Research Trainee)
Current Status: Staff,
NIH-HCI Bethesda MD

1995 - 1997 Lee, Richard S. (Clinical Research Trainee)
Current Status: Staff, Kaiser Northwest Permanente, Clackamas OR

1996 - 1997 Kanellopoulos, G. K (Research Trainee)
Current Status: Registrar, Glasgow, Scotland

1996 - 1998 Noda, S (Clinical Mentee)
Current Status: Private Practice, Belleville IL

1997 - 2001 Okamoto, R (Research Mentee)
Current Status: Assistant Professor of Mechanical and Biomedical Engineering, Washington University, St. L

1998 - 2002 Moustakadis, P (Research Trainee)
Current Status: Siemens Company, San Francisco CA

1998 - 2000 Burrows, W. M (Clinical Mentee)
Current Status: Staff, University of Maryland
 Baltimore MD

1999 - 2001 Singhal, Arun K (Clinical Mentee)
Current Status: Staff, University of Utah
 Salt Lake City UT

2000 - 2002 Absi, T. (Research Trainee)
Current Status: Staff, Vanderbilt University,
 Department of Cardiac Surgery
 Nashville TN

2000 - 2002 Maniar, H. S (Research Trainee)
Current Status: Staff, Washington University
 Adult Cardiac Surgery
 St. Louis MO

2002 - 2004 Hamner, Chad E (Research Trainee)
Current Status: Clinical Investigator, Children's Hospital,
 Columbus OH

2002 - 2003 Cho, Kwang Ree (Clinical Research Trainee)
Current Status: Clinical Instructor, Department of Thoracic and Cardiovascular
 Surgery, Seoul National University Hospital, Seoul, Korea

2002 - 2004 Potter, Jr., Donald D (Research Trainee)
Current Status: Staff, Pediatric Surgery, Mayo Clinic, Rochester MN

2003 - 2004 Yagubyan, Marineh (Research Trainee)
Current Status: Staff, Los Angeles Heart Surgery Group –
 Cardiothoracic Surgery Division
 Rochester MN

2005 - 2011 McKellar, Stephen (Research Trainee)
Current Status: Mayo Clinic
 Rochester MN

2009 - 2010 Park, Chan B (Research Fellow)
Current Status: St. Paul's Hospital
 Seoul, Korea

Report of Regional, National and International Invited Teaching and Presentations

[Invited Presentations and Courses](#)

Regional

1992 Renal Dysfunction and Intravascular Coagulation with Aprotinin and Hypothermic Circulatory Arrest
Southern Thoracic Surgical Association
Wesley Chapel, Florida

1998 Aneurysmal Disease of the Thoracic Aorta
Carle Clinic
Champaign-Urbana, Illinois

1998 Total Arterial Revascularization With a Single Internal Thoracic Artery and One Radial Artery As a T-Graft
Southern Thoracic Surgical Association
Orlando, Florida

1999 Ventricular Assist Devices As a Bridge to Transplant
Missouri Chapter of the American College of Cardiology
Kansas City, Missouri

1999 Should a Separate Valve and Graft be Used for Repair of a Bicuspid Aortic Valve and Ascending Aortic Aneurysm?
Southern Thoracic Surgical Association
Rio Mar, Puerto Rico

03/2004 Update on Cardiac and Aortic Surgery
Cardiovascular Outreach
Fargo, North Dakota

03/2004 Management Strategies for Degenerative Thoracic Aortic Aneurysm and Acute Aortic Syndrome
Cardiovascular Outreach
Cedar Rapids, Iowa

10/27/2004 Clinical and Laboratory Studies of Bicuspid Aortic Valve with Ascending Aortic Aneurysms
Cardiovascular Society
Rochester, Minnesota

11/18/2005 Thoracic Aortic Aneurysm Disease
Albert Lea Medical Center CME Course
Albert Lea, Minnesota

01/26/2006 Surgical Management of P.E.
Mayo Clinic
Rochester, Minnesota

09/2006 A Surgeon's Perspective on Bicuspid Aortic Valve and Associated Dilatation of the Ascending Aorta
CV Grand Rounds
Rochester, Minnesota

09/2006 Healing Enhancement: Creating Quality Care for our Patients
Rochester Coronary Club
Rochester, Minnesota

12/2006 A Surgeon's Point of View on Postoperative ST and QTc Monitoring
Advanced CV Surgery Specialty Day
Rochester, Minnesota

10/2007 We Will Take Care of You: Practical Applications of Human Factors to Patient Safety
Human Factors in Health Care: Practical Applications to Improve Patient Safety
St. Paul, Minnesota

01/2008 Application of Human Factors to the Practice of Surgery: The SAHFIRE Program
CALD Module III: Safety

- 2008 Leaders Conference - Safety in Numbers
Rochester, Minnesota
- 03/2008 Application of Human Factors to Improve Patient Safety in Cardiac Surgery
2008 Mayo Conference on Quality
Rochester, Minnesota
- 03/2008 Cardiac Surgery and Echocardiography: A Surgeon's Perspective
Echocardiography Board Review
Rochester, Minnesota
- 05/2008 Progress in Diagnosis and Management of Aortic Disease
Controversies in Cardiovascular Disease
Saint Paul, Minnesota
- 05/2008 Options for the Arch and Distal Aorta: Open Repair or Endovascular Stent Graft
Controversies in Cardiovascular Disease
Saint Paul, Minnesota
- 10/2008 Creating a Safe Culture: The View from the Sharp End
Course Director
Human Factors in Health Care: Practical Applications to Improve Patient Safety
[Course Director]
Rochester, Minnesota
- 11/2008 Seeing Care Through Our Patient's Eyes
The Voice of the Patient in Harmony with Care: Safety Through Patient and Provider
Partnerships
Rochester, Minnesota
- 05/2009 Case Discussion
Controversies in Cardiovascular Disease
St. Paul, Minnesota
- 05/2009 Stump the Chumps-Cases from the Audience
Controversies in Cardiovascular Disease
St. Paul, Minnesota
- 05/2009 Aortic Root Pathology: Composite Graft or Valve-Sparing Root Reconstruction?
Controversies in Cardiovascular Disease
St. Paul, Minnesota
- 12/2009 Surgical Management of the Aorta
Third Annual Bakken Symposium: Minimally Invasive Cardiac Surgery
Minneapolis, Minnesota
- 4/2011 Aortic Valve Repair
2nd Annual Cardiovascular Symposium
Holy Cross Hospital
Fort Lauderdale, FL
- 4/2011 Valve-Sparing Root Repair and Total Arch Repair
2nd Annual Cardiovascular Symposium
Holy Cross Hospital
Fort Lauderdale, FL
- 4/2011 Mitral Valve Repair
2nd Annual Cardiovascular Symposium
Holy Cross Hospital
Fort Lauderdale, FL
- 4/2011 Minimally Invasive Mitral Valve Repair

2nd Annual Cardiovascular Symposium
Holy Cross Hospital
Fort Lauderdale, FL

10/2011 Minimally Invasive Mitral Valve Repair
2nd Annual Cardiovascular Symposium
Holy Cross Hospital
Fort Lauderdale, FL

10/2011 Aortic Valve Endocarditis: Surgical Considerations
7th Triennial Brigham Cardiac Valve Symposium
Boston, Massachusetts

National

1988 Induction of Specific Transplant Tolerance in a Large Animal Model by Bone Marrow Transplantation
Surgical Forum
American College of Surgeons
Chicago, Illinois

1989 The Influence of Bone Marrow Derived Elements on Renal Allograft Rejection
Surgical Forum
American College of Surgeons
Atlanta, Georgia

1989 The Requirements for Accessory Cells in the Generation of Porcine Alloresponses
Federation of American Societies for Experimental Biology
New Orleans, Louisiana

1996 The Holmium: YAG Laser for Transmyocardial Laser Revascularization: Initial Clinical Experience
69th American Heart Association Meeting
New Orleans, Louisiana

1997 Previous Coronary Artery Bypass Surgery is Not a Risk Factor for Aortic Valve Replacement
33rd Annual Meeting of the Society of Thoracic Surgeons
San Diego, California

1997 Transmyocardial Revascularization with a Ho:YAG Laser: Results of 3- and 6- Month Follow-Up
American Heart Association
Orlando, Florida

1999 Surgical Therapy of Atrial Fibrillation
Atrial Fibrillation: Current Concepts, Cardiovascular Seminars
72nd Scientific Sessions of the American Heart Association
Atlanta, Georgia

1999 Aortic Valve Replacement in Octagenarians: Survival and Quality of Life
72nd Scientific Sessions of the American Heart Association
Atlanta, Georgia

1999 Nitric Oxide for the Treatment of Pulmonary Hypertension After Orthotopic Heart Transplantation
American Association of Transplant Surgeons
Chicago, Illinois

2000 5 year Experience with Complete Arterial Revascularization Using an Internal Thoracic Artery/Radial Artery T-Graft
49th Annual Scientific Session of the American College of Cardiology
Anaheim, California

- 2001 Penetrating Atherosclerotic Ulcers of the Thoracic Aorta May Be Managed Expectantly
74th Scientific Sessions of the American Heart Association
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- 2001 Severity of Illness Predicts Risk of Systemic Infection Following Coronary Artery Bypass
Surgery
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- 03/2003 Disease of the Aorta: From Emergency Room to Operating Room
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- 03/2003 Ischemic Mitral Regurgitation - What is New? Outcome? Need for Echo?
American College of Cardiology
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- 11/12/2003 Surgery for Aortic Valvular Disease
American Heart Association
Orlando, Florida
- 03/2004 Why a Catheter When Operation is True, Tried, and Tested: A Case Against Device But
for Operation
American College of Cardiology
New Orleans, Louisiana
- 03/07/2004 Surgical Closure of Patent Foramen Ovale
American College of Cardiology
New Orleans, Louisiana
- 03/19/2004 Similarities, Differences, and Opportunities Across Flight Deck and Operating Room Domains
Safety Across High-Consequence Industries
St. Louis, Missouri
- 04/2004 Aortic Arch Replacement Using a Carrel Patch
Aortic Surgery Symposium IX
New York, New York
- 06/2004 Is Early Anticoagulation Necessary After Bioprosthetic Aortic Valve Replacement?
Western Thoracic Surgical Association
Maui, Hawaii
- 08/05/2004 Anticoagulant Management. Benefits of Home Testing for Coumadin
Carbomedics Cardiac Surgery Forum
Beaver Creek, Colorado
- 03/2005 Surgical Approaches to Aneurysm of Ascending Aorta: When to Operate, to Replace the
Valve, or Not to Replace the Valve
American College of Cardiology
Orlando, Florida
- 03/2005 Aneurysm of the Aorta: Timing of Operation, Risk of Operation, and When Not to Operate –
Minimum Information I Need Before Operation and Role of Drugs
American College of Cardiology
Orlando, Florida

- 03/2005 Now That the Diagnosis is Made, Call the Surgeon: Surgical Approaches and Diagnostic Tests Required Prior to Operation. Is Cardiac Catheterization Mandatory?
American College of Cardiology
Orlando, Florida
- 04/2005 Surgery for Mitral Regurgitation. Primer for the Imager
Cardiac Imaging Orange County
Irvine, California
- 04/2005 End-Stage Heart Disease: Devices and Surgical Options. Temporary and Destination Devices. What is Current?
Cardiac Imaging Orange County
Irvine, California
- 10/2005 Review of Coronary Artery Bypass Grafting - Thoracic Board Review Course
American College of Surgeons
San Francisco, California
- 03/2006 Moderate Aortic Regurgitation During Coronary Artery Bypass Surgery
American College of Cardiology
Atlanta, Georgia
- 04/2006 Penetrating ulcer and intramural hematoma
Aortic Symposium X
New York, New York
- 05/2006 Surgical Management of Bicuspid Aortic Valve and Associated Aortic Enlargement
Valvular Heart Disease
Las Vegas, Nevada
- 10/2006 Review Course on Cardiothoracic Surgery
American College of Surgeons
Chicago, Illinois
- 11/2006 Treatment of Thoracic Aortic Trauma: Stenting or Surgery?
American Heart Association
Chicago, Illinois
- 11/2006 Tricuspid Insufficiency During Pericardiectomy for Constrictive Pericarditis
Southern Thoracic Surgical Association
Tucson, Arizona
- 03/2007 Management of Asymptomatic Severe Aortic Stenosis in the Elderly
American College of Cardiology
New Orleans, LA
- 09/2007 The Addition of the Cardiothoracic Surgeon in Vascular Intervention
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- 10/2007 Surgical Repair of Thoracoabdominal Aortic Aneurysms: Technical Challenges
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Society of Thoracic Surgeons
Fort Lauderdale, Florida
- 01/2008 Improvement in Results of Open Aortic Arch Replacement in 300 Patients
Society of Thoracic Surgeons

Fort Lauderdale, Florida

- 02/2008 Chaos and Error Management in Cardiothoracic Surgery
Society for Thoracic Surgical Education
Napa Valley, California
- 03/2008 Cardiac Surgery for Atrial Fibrillation: When to Intervene Surgically and What Surgical
Technique is Best
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Kauai, Hawaii
- 04/2008 Cardiac Surgery: Mitral and Tricuspid Valve Repair
Echocardiography in the Nation's Capital
Washington, District of Columbia
- 04/2008 Surgical Procedures for Diseases of the Thoracic Aorta Including Aneurysm, Dissection,
and Intramural Hematoma
Echocardiography in the Nation's Capital
Washington, District of Columbia
- 04/2008 Penetrating Aortic Ulcers, Intramural Hematoma
The Houston Aortic Symposium
Houston, Texas
- 05/2008 Human Factors and CPB
4th International Conference on Pediatric Mechanical Circulatory Support Systems and
Pediatric Cardiopulmonary Perfusion
Portland, Oregon
- 05/2008 Penetrating Ulcer/Intramural Hematoma/Obstructive Aortic Disease
Aortic Symposium 2008
Las Vegas, Nevada
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Valvular Heart Disease: New Strategies
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- 10/2008 Improving Quality Cardiac Surgery: More than Reducing Mortality
21st Century Treatment of Heart Failure: Synchronizing Surgical and Medical Therapies
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American Academy of CV Perfusion
Dallas, Texas

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CREF/29th Annual San Diego Cardiothoracic Surgery Symposium
San Diego, California

05/2009 AATS Plenary Session
AATS 89th Annual Meeting
Boston, Massachusetts

05/2009 Session IV: Resident Education
AATS Academy
Boston, Massachusetts

05/2009 Where To Go for Help - Useful Resources
AATS Academy
Boston, Massachusetts

05/2009 "Pundits Panel: How Do We Work Together, Not Apart?"
Heart Rhythm 2009
Boston, Massachusetts

05/2009 Scientific Session: Ablation vs. Surgery for Atrial Fibrillation, Antagonism or Synergism?
Heart Rhythm 2009
Boston, Massachusetts

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14th Annual Mayo Clinic Conference on Quality, Safety and Service
Rochester, Minnesota

11/2009 Moderator: Advances in Valve Surgery
American Heart Association
Orlando, Florida

11/2009 Discussant: Replacement of the Aortic Valve: Comparison of Matched Port Access and
Sternotomy Cohorts
Southern Thoracic Surgical Association
Marco Island, Florida

10/2010 Operating Room Briefings in Cardiovascular Surgery at the Mayo Clinic
American College of Surgeons Clinical Congress
Washington, District of Columbia

10/2010 The Value of Complete Arterial Revascularization
Coronary Artery Disease: Prevention, Detection and Treatment
Las Vegas, Nevada

10/2010 Off Pump Coronary Artery By-Pass: Antagonist Perspective
Coronary Artery Disease: Prevention, Detection and Treatment
Las Vegas, Nevada

- 4/2011 Bicuspid Aortic Valve and the Aortic Root
American College of Cardiology
New Orleans, Louisiana
- 4/2011 Importance of Blood Pressure Control After Repair of Acute Type A Aortic Dissection:
25-year Follow-up in 252 Patients
American Surgical Association
Fort Lauderdale, Florida
- 5/2011 AATS Plenary Sessions
AATS 91st Annual Meeting
Philadelphia Pennsylvania
- 09/2011 Patient Safety Gone Mad? Translating Techniques from Industry
Human Factors and Ergonomics Society 55th Annual Meeting
Las Vegas Nevada
- 10/2011 Management of Bicuspid Aortic Valve and Dilated Aorta
STS/ACCF Modern Day Management of Adults with Congenital Heart Disease
Chicago Illinois

Regional

- 1992 Renal Dysfunction and Intravascular Coagulation with Aprotinin and Hypothermic
Circulatory Arrest
Southern Thoracic Surgical Association
Wesley Chapel, Florida
- 1998 Aneurysmal Disease of the Thoracic Aorta
Carle Clinic
Champaign-Urbana, Illinois
- 1998 Total Arterial Revascularization With a Single Internal Thoracic Artery and One Radial
Artery As a T-Graft
Southern Thoracic Surgical Association
Orlando, Florida
- 1999 Ventricular Assist Devices As a Bridge to Transplant
Missouri Chapter of the American College of Cardiology
Kansas City, Missouri
- 1999 Should a Separate Valve and Graft be Used for Repair of a Bicuspid Aortic Valve and
Ascending Aortic Aneurysm?
Southern Thoracic Surgical Association
Rio Mar, Puerto Rico
- 03/2004 Update on Cardiac and Aortic Surgery
Cardiovascular Outreach
Fargo, North Dakota
- 03/2004 Management Strategies for Degenerative Thoracic Aortic Aneurysm and Acute Aortic Syndrome
Cardiovascular Outreach
Cedar Rapids, Iowa
- 10/27/2004 Clinical and Laboratory Studies of Bicuspid Aortic Valve with Ascending Aortic Aneurysms
Cardiovascular Society
Rochester, Minnesota
- 11/18/2005 Thoracic Aortic Aneurysm Disease
Albert Lea Medical Center CME Course
Albert Lea, Minnesota
- 01/26/2006 Surgical Management of P.E.

Mayo Clinic
Rochester, Minnesota

09/2006 A Surgeon's Perspective on Bicuspid Aortic Valve and Associated Dilatation of the Ascending Aorta
CV Grand Rounds
Rochester, Minnesota

09/2006 Healing Enhancement: Creating Quality Care for our Patients
Rochester Coronary Club
Rochester, Minnesota

12/2006 A Surgeon's Point of View on Postoperative ST and QTc Monitoring
Advanced CV Surgery Specialty Day
Rochester, Minnesota

10/2007 We Will Take Care of You: Practical Applications of Human Factors to Patient Safety
Human Factors in Health Care: Practical Applications to Improve Patient Safety
St. Paul, Minnesota

01/2008 Application of Human Factors to the Practice of Surgery: The SAHFIRE Program
CALD Module III: Safety
2008 Leaders Conference - Safety in Numbers
Rochester, Minnesota

03/2008 Application of Human Factors to Improve Patient Safety in Cardiac Surgery
2008 Mayo Conference on Quality
Rochester, Minnesota

03/2008 Cardiac Surgery and Echocardiography: A Surgeon's Perspective
Echocardiography Board Review
Rochester, Minnesota

05/2008 Progress in Diagnosis and Management of Aortic Disease
Controversies in Cardiovascular Disease
Saint Paul, Minnesota

05/2008 Options for the Arch and Distal Aorta: Open Repair or Endovascular Stent Graft
Controversies in Cardiovascular Disease
Saint Paul, Minnesota

10/2008 Creating a Safe Culture: The View from the Sharp End
Course Director
Human Factors in Health Care: Practical Applications to Improve Patient Safety
[Course Director]
Rochester, Minnesota

11/2008 Seeing Care Through Our Patient's Eyes
The Voice of the Patient in Harmony with Care: Safety Through Patient and Provider Partnerships
Rochester, Minnesota

05/2009 Case Discussion
Controversies in Cardiovascular Disease
St. Paul, Minnesota

05/2009 Stump the Chumps-Cases from the Audience
Controversies in Cardiovascular Disease
St. Paul, Minnesota

05/2009 Aortic Root Pathology: Composite Graft or Valve-Sparing Root Reconstruction?
Controversies in Cardiovascular Disease
St. Paul, Minnesota

- 12/2009 Surgical Management of the Aorta
Third Annual Bakken Symposium: Minimally Invasive Cardiac Surgery
Minneapolis, Minnesota
- 10/2011 Improving Practice Efficiency through System Engineering
Northeast Cardiac Surgical Society
East Madison, New Hampshire

International

- 1989 Pattern of T-cell Restriction in Miniature Swine After Allogeneic Bone Marrow Transplantation
1st International Basic Sciences Symposium of the Transplantation Society
Chateau Lake Louise, Canada
- 1990 Identification of a CD4 Polymorphism in Miniature Swine
13th International Congress of the Transplantation Society
San Francisco, California
- 1994 Reoperative Aortic Valve Surgery Following Homograft Root Replacement: Surgical Options
and Results, 6th International Symposium on Cardiac Bioprosthesis
Vancouver, Canada
- 1998 Minimally Invasive Cardiac Surgery
Colegio Dominicano De Cirujanos
Santo Domingo, Dominican Republic
- 1998 Arterial Grafts for Coronary Artery Bypass Surgery
Colegio Dominicano De Cirujanos
Santo Domingo, Dominican Republic
- 1999 Minimally Invasive Valve Surgery
International Society of Cardiovascular Surgery
Melbourne, Australia
- 2002 Off Pump CABG
International Congress of CV Anesthesia
Cusco, Peru
- 02/2003 Current Status of TMR
Mayo Clinic - Thai Heart Meeting
Pattaya, Thailand
- 02/2003 New and Old Tissue Valve Prosthesis
Mayo Clinic - Thai Heart Meeting
Pattaya, Thailand
- 02/2003 Aneurysms of the Aorta: New Paradigms in Management
Mayo Clinic - Thai Heart Meeting
Pattaya, Thailand
- 02/2003 Coronary Artery Bypass 2003: Off-pump Will Be the Procedure of Choice
Debate
Mayo Clinic - Thai Heart Meeting
Pattaya, Thailand
- 07/2003 Aortic Valve Surgery - State-of-the-Art
Cardiology and Cardiac Surgery for the Clinician
Essen, Germany
- 07/2003 Surgery of the Thoracic Aorta: State-of-the-Art
Cardiology and Cardiac Surgery for the Clinician
Essen, Germany

- 07/2003 Surgical Perspective/Advances: Off Pump, Robotics
Cardiology and Cardiac Surgery for the Clinician
Essen, Germany
- 09/12/2004 Ischemic Mitral Regurgitation
American College of Cardiology-Japanese College of Cardiology Annual Meeting
Kyoto, Japan
- 09/12/2004 Ischemic MR: Mechanism and Treatment
Japanese College of Cardiology - American College of Cardiology Joint Symposium
Kyoto, Japan
- 05/2006 Surgical Therapy: State-of-the-Art 2006
Mayo-Essen Meeting
Essen, Germany
- 04/21/2007 Cardiovascular Surgery for Patients with Ischemic Heart Disease and Heart Failure:
Options and Expectations
Mayo-China CV Summit
Hong Kong, People's Republic of China
- 08/2007 Surgery for Patients with Heart Failure and Left-Sided Valvular Disease
12th Annual Mount Course
Success with Failure: New Strategies for The Evaluation and Treatment of Congestive
Heart Failure
Whistler, British Columbia, Canada
- 08/2007 Cardiovascular Surgery for Patients with Heart Failure and Coronary Artery Disease:
Options and Expectations
12th Annual Mount Course
Success with Failure: New Strategies for The Evaluation and Treatment of Congestive
Heart Failure
Whistler, British Columbia, Canada
- 06/2009 Is the 'Sterile Cockpit' Concept Applicable to Cardiovascular Surgery?
Western Thoracic Surgical Association
Banff Springs, Alberta, Canada
- 10/2009 Discussant: Spinal Cord Protection during Thoracoabdominal Aortic Repair for Chronic
Type B Aortic Dissection using Aortic Tailoring Technique
Session: Neurological Injury Prevention
The European Association for Cardio-Thoracic Surgery
Vienna, Austria
- 10/2009 Discussant: Outcome of Patients Suffering from Acute Stanford Type B Aortic Dissection :
A Retrospective Single Center Analysis of 136 Patients
Session: Endovascular Aortic Therapies
The European Association for Cardio-Thoracic Surgery
Vienna, Austria
- 6/2011 The Management of Intramural Hematoma and Penetrating Ulcers of the Thoracic Aorta
Aorta II
XXVII Meeting of the Association of Cardiac Surgeons
Montreal Quebec CANADA
- 8/2011 Communication in the Operating Room
Joint Meeting in Cardiothoracic Surgery
Scandinavian Association for Thoracic Surgery Annual Meeting
Tampere Finland
- 8/2011 Current Treatment of Aneurysms of the Aortic Arch and Descending Thoracic Aorta-open or endo
Joint Meeting in Cardiothoracic Surgery

- Scandinavian Association for Thoracic Surgery Annual Meeting
Tampere Finland
- 8/2011 Aortic Valve Replacement (AVAR) in the Elderly
Joint Meeting in Cardiothoracic Surgery
Scandinavian Association for Thoracic Surgery Annual Meeting
Tampere Finland
- 10/2011 How We Measure Artificial Chordae Length in Bileaflet Mitral Valve Prolapse Repair:
Up to 1700 Chordae Implanted.
Session: Mitral and Tricuspid Valves II
25th Annual European Association for CardioThoracic Surgery Meeting
Lisbon Portugal
- 10/2011 Replacement of the Ascending Aorta in Bicuspid Aortic Valve Disease: Where do we draw the line?
Session: Postgraduate Course
The 64th Annual Scientific Meeting of the Japanese Association for Thoracic Surgery
Nagoya JAPAN
- 10/2011 Is the "Sterile Cockpit" Concept Applicable to Cardiovascular Surgery Critical Interals or Critical Events?
Session: Invited Lecture
The 64th Annual Scientific Meeting of the Japanese Association for Thoracic Surgery

National

- 1988 Induction of Specific Transplant Tolerance in a Large Animal Model by Bone Marrow Transplantation
Surgical Forum
American College of Surgeons
Chicago, Illinois
- 1989 The Influence of Bone Marrow Derived Elements on Renal Allograft Rejection
Surgical Forum
American College of Surgeons
Atlanta, Georgia
- 1989 The Requirements for Accessory Cells in the Generation of Porcine Alloresponses
Federation of American Societies for Experimental Biology
New Orleans, Louisiana
- 1996 The Holmium: YAG Laser for Transmyocardial Laser Revascularization: Initial Clinical Experience
69th American Heart Association Meeting
New Orleans, Louisiana
- 1997 Previous Coronary Artery Bypass Surgery is Not a Risk Factor for Aortic Valve Replacement
33rd Annual Meeting of the Society of Thoracic Surgeons
San Diego, California
- 1997 Transmyocardial Revascularization with a Ho:YAG Laser: Results of 3- and 6- Month Follow-Up
American Heart Association
Orlando, Florida
- 1999 Surgical Therapy of Atrial Fibrillation
Atrial Fibrillation: Current Concepts, Cardiovascular Seminars
72nd Scientific Sessions of the American Heart Association
Atlanta, Georgia
- 1999 Aortic Valve Replacement in Octagenarians: Survival and Quality of Life
72nd Scientific Sessions of the American Heart Association
Atlanta, Georgia
- 1999 Nitric Oxide for the Treatment of Pulmonary Hypertension After Orthotopic Heart Transplantation
American Association of Transplant Surgeons

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- 2000 5 year Experience with Complete Arterial Revascularization Using an Internal Thoracic Artery/Radial Artery T-Graft
49th Annual Scientific Session of the American College of Cardiology
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Human Factors in Health Care: Practical Applications to Improve Patient Safety
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- 11/2008 Seeing Care Through Our Patient's Eyes
The Voice of the Patient in Harmony with Care: Safety Through Patient and Provider
Partnerships
Rochester, Minnesota
- 05/2009 Case Discussion
Controversies in Cardiovascular Disease
St. Paul, Minnesota
- 05/2009 Stump the Chumps-Cases from the Audience
Controversies in Cardiovascular Disease
St. Paul, Minnesota
- 05/2009 Aortic Root Pathology: Composite Graft or Valve-Sparing Root Reconstruction?
Controversies in Cardiovascular Disease
St. Paul, Minnesota
- 12/2009 Surgical Management of the Aorta
Third Annual Bakken Symposium: Minimally Invasive Cardiac Surgery
Minneapolis, Minnesota
- 12/2009 Surgical Management of the Aorta
Third Annual Bakken Symposium: Minimally Invasive Cardiac Surgery
Minneapolis, Minnesota

INVITED PRESENTATIONS

- 1989 Major Histocompatibility Antigens and Their Role in the Regulation of Immune Responses
Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics
Salt Lake City, Utah
- 1989 Alternatives to Immunosuppressive Medications for the Induction of Transplantation Tolerance
Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics
Salt Lake City, Utah

- 1993 Cardiothoracic Surgical Complications of Marfan Syndrome
Annual Information Day for the Marfan Association of the United Kingdom
London, United Kingdom
- 1996 TMR: Operative Technique and Postoperative Care
The Holmium: YAG Laser Clinical Outcomes and Comparative Studies
Prague, Czech Republic
- 1996 Perioperative Hemostasis: Concepts and Controversies in Coagulation Management, Case Presentations
in Adult Cardiac Surgery
Seminar on Perioperative Hemostasis
San Diego, California
- 1997 Does Denervation Play a Role in the Clinical Efficacy of TMR?
Transmyocardial Revascularization: A New Therapeutic Option in Cardiac Surgery
Cap Martin, France
- 1997 Positive Pre-Operative PRA by ELISA-based Analysis (PRA-STAT) is Predictive of Rejection in Crossmatch
Negative Cardiac Transplant Recipients
17th Annual Meeting of the International Society for Heart and Lung Transplantation
London, United Kingdom
- 04/2007 We Will Take Good Care of You
Cleveland Heart Center Grand Rounds
Cleveland, Ohio
- 11/2007 Techniques for Aortic Arch Replacement
10th Annual Live Workshop on Aortic Aneurysms
Coimbatore, India
- 11/2007 Thoracoabdominal Aortic Replacement Using Deep Hypothermic Circulatory Arrest
10th Annual Live Workshop on Aortic Aneurysms
Coimbatore, India
- 01/2008 Reparative Options for the Ascending Aorta Root and Arch
Grand Rounds
Grand Rounds, St. Joseph's Hospital
St. Paul, Minnesota
- 03/2008 Understanding the Pathophysiology of Functional Mitral Valve Regurgitation, Surgical Approaches and
Predicting Outcomes
St. Jude Medical Residents Program
Minneapolis, Minnesota
- 04/2008 Practical Applications of Human Factors in Surgery
Colorado Springs Memorial Health System
Colorado Springs, Minnesota
- 05/2008 Penetrating Aortic Ulcer and Intramural Hematoma
6th Current Trends in Cardiothoracic Surgery/Michael E. DeBakey International Surgical Society 17th Congress
Houston, Texas
- 06/2008 Human Factors in the OR: Error Prevention, Capture, and Recovery
Society of Cardiovascular Anesthesiologists
Vancouver, British Columbia, Canada
- 10/2008 Disclosing Medical Error to the Family
Halifax 8: The Canadian Healthcare Safety Symposium
Halifax, Nova Scotia, Canada
- 11/2008 Human Factors in Health Care: Practical Applications to Improve Patient Safety
Minnesota Alliance for Patient Safety
Brooklyn Center, Minnesota

- 03/2009 Session: Mitral Valve Surgery
17th Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery/2nd AATS/ASCVTS
Postgraduate Course
Taipei, Taiwan
- 03/2009 Session: Mitral Reconstruction I
17th Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery/2nd AATS/ASCVTS
Postgraduate Course
Taipei, Taiwan
- 03/2009 The Aorta in Bicuspid Aortic Valve Disease
17th Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery/2nd AATS/ASCVTS
Postgraduate Course
Taipei, Taiwan
- 03/2009 Mitral Valve Repair: Techniques and Outcomes
17th Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery/2nd AATS/ASCVTS
Postgraduate Course
Taipei, Taiwan
- 03/2009 Arrhythmia: Catheter Ablation vs Surgical Ablation
17th Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery/2nd AATS/ASCVTS
Postgraduate Course
Taipei, Taiwan
- 03/2009 Selective Antegrade Perfusion for Neuroprotection during Arch Replacement
17th Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery/2nd AATS/ASCVTS
Postgraduate Course
Taipei, Taiwan
- 03/2009 Thoracic Aneurysms
The Houston Aortic Symposium
Houston, Texas
- 03/2009 The Scenario Teaching Technique
14th Annual Update on Cardiopulmonary Bypass
Whistler, British Columbia, Canada
- 03/2009 Human Factors in Healthcare: Practical Applications to Improve Patient Safety
Patient Safety Symposium
Edina, Minnesota
- 03/2009 Case Presentation: Team Building Concepts: Breakouts and Discussion
14th Annual Update on Cardiopulmonary Bypass
Whistler, British Columbia, Canada
- 03/2009 The Ascending Aorta in Bicuspid Aortic Valve Disease: Do They Really All Need to be Replaced?
The Houston Aortic Symposium
Houston, Texas
- 04/2009 Cardiac Surgery: Mitral and Tricuspid Valve Repair
Echocardiography in the Nations Capital
Washington, District of Columbia
- 04/2009 Surgical Procedures for Diseases of the Thoracic Aorta Including Aneurysm, Dissection, and Intramural
Hematoma
Echocardiography in the Nations Capital
Washington, District of Columbia
- 11/2009 Academic Cardiovascular Surgery in the United States: A Personal Perspective
Cardiothoracic Conference
Guangzhou, People's Republic of China

11/2009 Clinical Challenges in the Management of Patients with Bicuspid Aortic Valve Disease
Cardiothoracic Conference
Guangzhou, People's Republic of China

01/2010 The Human Side of the Operating Room
Grand Rounds - Mayo Scottsdale
Scottsdale, Arizona

02/2010 Early Experience of PAVR in Mayo Clinic
CHORUS 2010
Seoul, South Korea

02/2010 Patient Safety: US Perspective
Japanese Society for Cardiovascular Surgery
Kobe, Japan

02/2010 Techniques for Aortic Root and Thoracoabdominal Aortic Diseases
Osaka Area Conference
Osaka, Japan

02/2010 Management of Ascending Aortic Aneurysm Disease and Valve-Sparing Roots
CHORUS 2010
Seoul, South Korea

02/2010 The Importance of Diversity in Cardiac Surgery Programs
Japanese Society for Cardiovascular Surgery
Kobe, Japan

02/2010 Aortic Valve-Sparing Root Replacement: Learning Curve and Surgical Techniques
Japanese Society for Cardiovascular Surgery
Kobe, Japan

03/2010 Wrap up the Day - Case Discussion
15th Annual Update on Cardiopulmonary Bypass
Whistler, British Columbia, Canada

03/2010 Case Discussions in Cardiac Human Error
15th Annual Update on Cardiopulmonary Bypass
Whistler, British Columbia, Canada

03/2010 Case Discussions of Surgical Breaks in Flow and Outcome
15th Annual Update on Cardiopulmonary Bypass
Whistler, British Columbia, Canada

03/2010 Bicuspid Aortic Valve: The New Frontier (Session Chair)
ACC10 - American College of Cardiology 2010
Atlanta, Georgia

03/2010 Surgical Repair of the Disease Spectrum of Bicuspid Aortic Valve: The Cutting Edge
Bicuspid Aortic Valve: The New Frontier
ACC10 - American College of Cardiology 2010
Atlanta, Georgia

03/2010 Team Building to Reduce Human Error in the Cardiac Operating Rooms: FOCUS-ed Teaching Towards Collaboration a
15th Annual Update on Cardiopulmonary Bypass
Whistler, British Columbia, Canada

04/2010 AATS Academy Phase 2: Leading Change
AATS 90th Annual Meeting
Toronto, Ontario, Canada

04/2010 AATS Academy Phase I - Moderator:Session 4
AATS 90th Annual Meeting
Toronto, Ontario, Canada

04/2010 AATS Academy Phase 2 - Moderator:Session 1
AATS 90th Annual Meeting
Toronto, Ontario, Canada

04/2010 Replacement of the Ascending Aorta in Bicuspid Aortic Valve Disease: Where do we Draw the Line?
Aortic Symposium 2010
New York City, New York

04/2010 Porcine Bioprostheses in the Mitral Position: Are They Viable?
Heart Valve Society of America
Valves in the Heart of the Big Apple VI: Evaluation and Management of Valvular Heart Disease 2010
New York

05/2010 Cardiac Scientific Session, Surgical Therapies for Congestive Heart Failure - Co-Chair
AATS 90th Annual Meeting
Toronto, Ontario, Canada

05/2010 Adult Cardiac Symposium: When not to Replace a "Large" Thoracoabdominal Aneurysm
AATS 90th Annual Meeting
Toronto, Ontario, Canada

05/2010 Criteria for Surgical Correction of Ascending Aortic Enlargement: We are too Aggressive
Controversies in CV Disease
St. Paul, Minnesota

06/2010 How I Became a Patient Safety Enthusiast
CRICO/RMF Strategies 2010 Patient Safety Summit
Boston, Massachusetts

06/2010 Communication and Teamwork in the Operating Room: Essential Tools to Improve Outcomes
OR Safety
Austin, Minnesota

06/2010 Management Options for the Infected Composite Root Prosthesis
Redo Cardiac Surgery in Adults
Pittsburgh, Pennsylvania

06/2010 The Importance of Teaching Nontechnical Skills to Neurosurgeons
Society of Neurological Surgeons
New Haven, Connecticut

09/2010 Teamwork for Patient Safety: It's Everyone's Responsibility"
APIC Minnesota
Bloomington, Minnesota

10/2010 Arch Replacement Comparison of Protection Methods
Turkish Society of Cardiovascular Surgery 11th Annual Meeting
Antalya, Turkey

10/2010 Current Management of Intramural Hematoma and Penetrating Ulcers
Turkish Society of Cardiovascular Surgery 11th Annual Meeting
Antalya, Turkey

**Visiting
Professorships**

- 10/2002 Grand Rounds: Arterial Grafts for Coronary Artery Bypass Grafting: Better or Just Different?
University of Texas
Houston, Texas
- 2003 Use of Arterial Conduits for Myocardial Revascularization
George Washington University Grand Rounds
Washington, District of Columbia
- 09/2004 - Surgery for Atrial Fibrillation
Birmingham Review Course in Cardiothoracic Surgery
Birmingham, United Kingdom
- 04/13/2007 Human Factors in Surgery
Cleveland Clinic
Cleveland, Ohio

02/2009 Complexity, Chaos and Cognition: Are Checklists the Answer?
Georgetown University Hospital
Washington, District of Columbia

4/2011 Learning from Our Mistakes
Brooks-Lower Lecture, Department of Surgery
Richmond, Virginia

5/2011 Learning from My Mistakes: A Personal Journey Toward High Reliability Team Performance
20th Annual Visiting Scholar in CardioThoracic Surgery
University of Washington
Seattle, Washington

5/2011 Management Of Aneurismal Disease Of The Proximal Aorta And Arch
Frank Randolph Johnson Lectureship
Wake Forest University
Winston-Salem North Carolina

10/2011 How Do We Decide When To Replace The Ascending Aorta?
Alan D. Hilgenberg Lecturer
Massachusetts General Hospital
Boston, MA

4/2012 Complexity, Cognition and Collective Intelligence
Bergquist-Reed Lecturer
Providence Portland Med Ctr
Portland, Oregon

4/2012 Honored Guest
Annual Meeting
Society of Cardiothoracic Surgery of Great Britain and Ireland
Manchester, UK

5/2012 Learning from my mistakes
Virginia and James Hubbard Visting Lecture in Cardiac Surgery
Brigham and Womens Hospital
Boston, MA

6/2012 Learning from my mistakes
Alumni and Graduation Day Lecturer
Northwestern University
Chicago, Ill

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Peer-reviewed Articles

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Miscellaneous

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Narrative Report (limit to 500 words)

I took my medical training in a number of institutions, including a final 9 months in the United Kingdom in the National Health Services. This has provided me a diverse experience and broad perspective on the delivery of healthcare. I also spent a good deal of time during the course of my undergraduate and graduate education in basic science laboratories, including 2 years at the National Institutes of Health with Dr. David Sachs. Upon completing my training, and after returning from the UK, I undertook both clinical and laboratory efforts in the field of cardiac surgery. I have maintained involvement in laboratory investigations throughout my career and have made contributions in transplantation, advanced imaging in the evaluation of ischemic heart disease, and the genetics of heart valve disease and associated aortic aneurism formation. I have been funded by the National Institutes of Health, the American Association for Thoracic Surgery, and The Mayo Foundation.

My principle clinical focus has been on surgery for the correction of acquired cardiovascular conditions in the adult. As a member of the consulting staff at Washington University in St. Louis first as an Assistant Professor and subsequently as Associate Professor with tenure, my practice was initially focused on transplantation culminating in my appointment as surgical director for cardiac transplantation. I also established a practice in diseases of the aorta, an interest that I carried to the Mayo Clinic in 2001. At Mayo Clinic my practice in aortic surgery rapidly grew and I became recognized nationally and internationally as a thought-leader in the field. I have written extensively in the field, have been invited to deliver numerous national and international presentations on the topic, and established a laboratory effort focused on the genetics of a subset of aneurismal diseases (those associated with bicuspid aortic valve). I have been author or co-author on over 65 papers in the peer reviewed literature in the field of aortic disease specifically, including basic science as well and clinical research. At Mayo Clinic I was co-director of the Marfan and Thoracic Aortic Clinic, and was the lead enroller in the national registry for aortic root surgery in patients with Marfan syndrome.

While at Mayo Clinic I also established an academic effort in understanding the pathogenesis of medical error with the recruitment of Human Factors scientists. This work resulted in 9 original publications in the field. I am recognized by my peers as a leader in this area as well, and have been invited internationally to deliver talks on the subject of surgical safety and communications.

I am currently the Secretary of the American Association for Thoracic Surgery, the most selective academic organization in our field. I am also a member of the American Surgical Association, the Southern Surgical Association, and the Society of University Surgeons in addition to the Society of Thoracic Surgeons among other organizations. I served as the first chair of the Workforce on Patient Safety for the latter organization.

I chose to leave Mayo Clinic, where I was Vice Chair of the Department of Surgery, to lead the Division of Cardiac Surgery at Massachusetts General Hospital at a time of great change in healthcare in order to play a leading role in the future of the science and practice of healthcare delivery.