

John D. Puskas, MD, MSc, FACS, FACC
CURRICULUM VITAE
Revised October, 2022

NAME: John D. Puskas, MD, MSc, FACS, FACC

CURRENT TITLES AND AFFILIATIONS:

Academic Appointments:

4/2014 - Present	Professor of Cardiovascular Surgery Icahn School of Medicine at Mount Sinai New York, NY
	Chairman, Department of Cardiovascular Surgery Mount Sinai Morningside (formerly Saint Luke's), Mount Sinai Beth Israel and Mount Sinai West (formerly Roosevelt) Hospitals New York, NY

Clinical Appointments:

4/2014 - Present	Staff Surgeon, Mount Sinai Hospital and Mount Sinai Morningside Hospital
4/2014 - Present	Director, Coronary Revascularization Reference Center, Mount Sinai Health System
8/2014 - Present	Founder/Director, Cardiovascular Clinical Research Unit, Mount Sinai Morningside Hospital

Previous Appointments:

1996 - 2005	Staff Surgeon, Emory University Hospitals
2005 - 2014	Chief of Cardiothoracic Surgery, Emory University Hospital Midtown (formerly Emory Crawford Long Hospital), Professor of Cardiothoracic Surgery, Emory University
2005 - 2014	Associate Chief, Division of Cardiothoracic Surgery, Dept. of Surgery, Emory University
2005 - 2014	Founder and Medical Director, Physician Assistant Residency Program, Emory University
2005 - 2014	Founder and Director, Clinical Research Unit, Cardiothoracic Surgery, Emory University
2005 - 2014	Director, Emory Center for the Surgical Treatment of Atrial Fibrillation
2005 - 2010	Director, Cardiothoracic Surgical Intensive Care Unit, Emory Hospital Midtown
2010 - 2014	Associate Director, Cardiothoracic Intensive Care Unit, Emory Hospital Midtown
2008 - 2014	Director, Non-Board Track Fellowship in Adult Cardiac Surgery, Emory Hospitals
2010 - 2014	Quality Officer, Division of Cardiothoracic Surgery, Emory University Hospitals

LICENSURES/BOARDS:

Massachusetts:	#1057916 (exp. 1993)
Georgia Medical Board:	#038072 (exp. 2015)
New York State:	#274324 (2014-present)
New Jersey State:	#25MA10738200 (2019-present)

Specialty Boards:

1994 - Recert. 2016	American Board of Surgery
2017 - Recert. 2027	American Board of Thoracic Surgery

EDUCATION:

1978 - 1982	A.B., Summa Cum Laude in Biology, Princeton University
1982 - 1986	MD, Harvard Medical School
1989 - 1991	Master of Science in Surgical Science (MSc), University of Toronto

POSTGRADUATE TRAINING:

1986 - 1993	General Surgery Internship and Residency, Department of Surgery, Massachusetts General Hospital, Harvard Medical School, Director Gerald Austen, MD
1989 - 1991	Lung Transplantation Research Fellowship, Division of Thoracic Surgery, Toronto General Hospital, Director G. Alexander Patterson, MD
1993	Advanced Fellowship in Tracheal Surgery (six months), Massachusetts General Hospital, Division of General Thoracic Surgery, Director Hermes C. Grillo, MD
1993 - 1996	Emory University Residency and Fellowship in Cardiothoracic Surgery, Director Robert A. Guyton, MD

COMMITTEE MEMBERSHIPS AND EXTRAMURAL LEADERSHIP ROLES:

National and International:

1999 - 2002	Committee on New Technologies, Society of Thoracic Surgeons
2001 - 2003	Program Committee, International Society for Minimally Invasive Cardiac Surgery
2003 - 2005	Program Committee, The Society of Thoracic Surgeons
2009 - 2010	Program Committee, Reviewer, The Society of Thoracic Surgeons
2003 - 2008	Founder and Chair, Publications Committee, International Society for Minimally Invasive Cardiac Surgery; (founded INNOVATIONS, the journal of ISMICS)
2003 - 2010	Board of Directors, International Society for Minimally Invasive Cardiac Surgery
2004 - Present	Society of Thoracic Surgeons Workforce on Adult Cardiac Surgery
2004 - 2005	Education Committee, American Association for Thoracic Surgery
2004 - 2005	Chair, Program Committee, International Society for Minimally Invasive Cardiac Surgery
2004	Chair, Consensus Conference, International Society for Minimally Invasive Cardiac Surgery
2004	In-Training Examination Committee, American Board of Thoracic Surgery
2004 - 2007	Education Committee, Thoracic Surgery Foundation for Research and Education
2004	Member, Working Group on Future Directions in Cardiac Surgery, National Institutes of Health
2004 - 2006	Tech-Con Program Committee, American Association for Thoracic Surgery/Society of Thoracic Surgeons

2006 - 2007	Chair, Tech-Con Program Committee, AATS/STS
2006 - 2007	Vice President, International Society for Minimally Invasive Cardiac Surgery
2007 - 2008	President-Elect, International Society for Minimally Invasive Cardiac Surgery
2007 - 2012	Chair, Budget Committee, NHLBI Cardiothoracic Surgical Trials Network
2007 - 2011	Member, Governing Council, American Association for Thoracic Surgery
2008 - 2009	President, International Society for Minimally Invasive Cardiothoracic Surgery
2009 - 2017	Chair, International Relations Task Force, The Society of Thoracic Surgeons
2009 - 2012	Board Member, Thoracic Surgery Foundation for Research and Education
2010	Fundraising Committee, Thoracic Surgery Foundation for Research and Education
2010 – 2014	Chair, Satellite Selection Committee, NHLBI Cardiothoracic Surgical Network
2010 - 2012	Chair, Dual Antiplatelet Trial Protocol Development Committee, Cardiothoracic Surgical Network, NHLB/VA Cooperative Study Program
2012 - 2014	STS Task Force on Grant Development and Funding
2011 - 2012	Chair, STS Cardiothoracic Surgery/Industry Alliance Committee
2014	Chair, Consensus Conference on Off-Pump CABG, International Society for Minimally Invasive Cardiac Surgery
2014 - 2015	Program Committee, American Association for Thoracic Surgery
2015 - Present	Founder/co-Director, International Coronary Congress (ICC). The annual ICC meeting has developed a global impact, consistently attracted delegates from more than 40 different countries, with world authorities addressing every aspect of state-of-the-art surgical coronary revascularization. This meeting has been held in New York 2015, 2017, 2019 and 2021; and in New Delhi 2016 (>2000 attendees), Beijing 2018 (>5000 attendees) and will be held in Tokyo in December, 2022. (www.internationalcoronarycongress.org)
June 27, 2016	NIH Study Section member, NHLBI Clinical Trial Pilot Studies (R34) meeting 2016/10 ZHL1 CSR-G (02)
2017 – 2018	Program Chairman, American Association for Thoracic Surgery, annual meeting. April 28-May 1, 2018.
2021	Founder/President, International Society for Coronary Artery Surgery (ISCAS) The mission of ISCAS is to advance the state of the art in surgical coronary revascularization and to improve the care of patients with coronary artery disease worldwide. ISCAS is the parent organization of the ICC. (www.iscascoronary.org)

Institutional:

1999 – 2003	U.S. Surgical Endo-surgery Executive Committee, Emory Dept. of Surgery
2002 – 2014	Cardiothoracic OR Committee, Emory University Midtown Hospital
2002	Emory Healthcare Reorganization Committee, chaired by John Fox, CEO
2003 - 2004	Emory University Conflict of Interest Committee
2004 - 2014	Emory University Hospital Midtown (formerly Crawford Long Hospital) Medical Advisory Committee, Chaired by John Fox, CEO, Emory Healthcare
2004	Inaugural Woodruff Leadership Academy, Chaired by Michael Johns CEO of Woodruff Health Sciences Center
2005	Emory Heart Center Steering Committee, Member, chaired by Douglas Morris
2005	Emory Heart Center Steering Committee, Subcommittee on Practice Models, Member, Chaired by David Vega and Angel Leon
2005 - 2014	Carlyle Fraser Heart Center, Board Member
2007 - 2014	Emory Heart & Vascular Center, Member, Board of Directors

CONSULTANTSHIPS:

1996 - 1998	U.S. Surgical, Surgeon Advisory Board
1999 - 2010	Medtronic (OPCAB proctor/consultant)
2000 - 2006	Quest Medical
2002 - 2003	St Jude Medical
2003	Novare Surgical
2003 - 2007	Medtronic (Development of Controlled Intermittent Asystole)
2006 - 2010	Guidant: Boston Scientific Maquet Cardiac Surgery Strategy Board
2017 – Present	Medtronic (OPCAB training)

MANUSCRIPT REVIEWER/EDITORIAL CONTRIBUTIONS:

2000 - Present	Annals Thoracic Surgery
2000 - Present	Journal of Thoracic and Cardiovascular Surgery
2000 - Present	Heart Surgery Forum
2000 - Present	The Lancet
2005 - Present	The Journal of Cardiac Surgery
2005 - Present	Circulation
2005 - Present	Innovations
2014 - Present	Journal of the American College of Cardiology
2017 - Present	Journal of the European Association for Cardiothoracic Surgery

HONORS AND AWARDS:

1982	Senior Thesis Book Prize, Department of Biology, Princeton University
1982	Sigma Xi Honor Society, Princeton Chapter
1989 - 1991	E. D. Churchill Fellowship, Department of Surgery Massachusetts General Hospital
2003	Educational Award, Society of Thoracic Surgeons, to attend the Harvard School of Public Health/J.F. Kennedy School of Government, Executive Course in "Skills For The New World Of Health Care"
2004	Woodruff Leadership Academy, Emory University
2004	Award for Best Oral Presentation, International Society for Minimally Invasive Cardiothoracic Surgery, Annual Meeting
2007	J. Maxwell Chamberlain Memorial Award (best paper in adult cardiac surgery) Society of Thoracic Surgeons Annual Meeting
2011	Honorary Membership, Society for Cardiothoracic Surgery in Great Britain and Ireland
2012	2nd Place Award, Senior Biomedical Design Competition, Georgia Tech University (Biomedical Engineering clinical mentor)

SOCIETY MEMBERSHIPS:

1992 - Present	MGH Surgical Alumni Society
1998 - Present	International Society for Minimally Invasive Cardiothoracic Surgery (ISMICS)
1999 - Present	Society of Thoracic Surgeons
1999 - Present	American College of Surgeons
2000 - Present	American Association for Thoracic Surgery
2004 - Present	American College of Chest Physicians
2004 - Present	Society of University Surgeons

2010 - Present	American College of Cardiology
2010 - Present	Cardiac Surgical Biology Club of the American Association of Thoracic Surgery Member
2011 - Present	Society for Cardiothoracic Surgery in Great Britain and Ireland (Honorary Member)

PATENTS:

Issued:

1. U.S. Patent No. 6,042,538 "Device for Endoscopic Vessel Harvesting"
2. U.S. Patent No. 6,479,523 "Pharmacologic Drug Combination in Vagal-Induced Asystole", licensed to Medtronic.
3. U.S. Patent No. 6,429,217 "Pharmacological Drug Combination in Vagal-Induced Asystole", licensed to Medtronic.
4. U.S. Patent No. 6,778,854 "Methods of Indirectly Stimulating the Vagus nerve with an Electrical Field", licensed to Medtronic.
5. U.S. Patent No. 6,656,960 "Methods of Performing Vagal-Induced Asystole", licensed to Medtronic.
6. U.S. Patent No. 7,072,720 "Devices and Methods for Vagus Nerve Stimulation", licensed to Medtronic.
7. U.S. Patent No. 7,142,910 "Methods of Indirectly Stimulating the Vagus Nerve with an Electrical Field", licensed to Medtronic.
8. U.S. Patent No. 7,310,552 "Apparatus for Indirectly Stimulating the Vagus Nerve with an Electrical Field."
9. U.S. Patent No. 7,340,299 "Methods of Indirectly Stimulating the Vagus Nerve to Achieve Controlled Asystole."
10. U.S. Patent No. 7,840,278 "Devices and Methods for Vagus Nerve Stimulation."
11. European Patent No. EP1005337 "Pharmacologic Drug Combination in Vagal Induced Asystole"
12. Australian Patent No. 63371/00 "Devices and Methods for Vagus Nerve Stimulation"
13. U.S. Patent No. 12/134,842 "Dual Closing Guide for a Surgical Instrument", licensed to Scanlan International, Inc., manufactured and sold world-wide.
14. U.S. Copyright number TXu001773493/2011-08-28, "The Price Tag Manifesto".
15. U.S. Patent No. 14/030,606 "Novel Sternal Retractor", licensed to Scanlan International, Inc.

CLINICAL SERVICE AND LEADERSHIP OF QUALITY IMPROVEMENT: Average of approximately 300 major cardiac surgical cases annually as primary surgeon since 1996, with consistently division-leading low observed/expected mortality ratios and LOS. Specializing in all-arterial no-aortic-touch OPCAB, robotic CABG and complex referral cases of all types. Active teaching service for CTS advanced fellows, chief residents, residents and medical students. As the first **Quality Officer** appointed in the Emory Division of Cardiothoracic Surgery, convened multidisciplinary teams to systematically create a culture of safety and continuous quality improvement, leading these teams through near-weekly meetings from 2011-2014. **During this time, the Emory Division of CTS improved its national STS "Star" quality rating from 1-star (lowest 10%) in 2010 to 3-star (highest 10%) in 2014. Similarly, at Mount Sinai Morningside (formerly Saint Luke's) almost tripled the clinical volume since January 2017 and maintained excellent quality outcomes through team building and relentless focus on Service and Safety, leading to the coveted STS 3-year, 3-star rating in 2021. Moreover, in 2020, Mount Sinai Morningside was independently ranked for the first time in the top 50 hospitals nationwide for cardiology and cardiac surgery by US News and World Report (48th); in 2021 that ranking had improved further to 41st nationally.**

PATIENT SATISFACTION SCORES AND COLLEAGUE RATINGS :

Personal patient satisfaction scores (online, September, 2022): CG-CAHPS score 5/5 stars (114 responses) "likelihood to recommend provider"; health.usnews.com 5/5 stars (55 reviews); zocdoc 5/5 stars (31 reviews); healthgrades 5/5 stars (reviews).

America's Top Doctors Award, Castle Connolly 10 consecutive years, 2011-2021. (www.castleconnolly.com).

Wikipedia page: https://en.wikipedia.org/wiki/John_Puskas

PHILANTHROPIC DEVELOPMENT: Personally cultivated and facilitated philanthropic donations from multiple grateful patients to the Emory University Division of Cardiothoracic Surgery Clinical Research Unit, totaling approximately \$1,050,000.00 through 2013. These funds were vital to establish the financial stability of the Emory CRU and power its growth. At Mount Sinai, cultivated multiple grateful patients and raised funds to build a new multimedia conference room within our Heart Team offices and to support two Advanced Coronary Surgery Fellowship salaries 2019-2020 and 2021-2022.

RESEARCH FOCUS: Since founding the Emory University Cardiothoracic Clinical Research Unit (Emory CRU) in 2005, Dr. Puskas is or has been the national/international PI for five (5) multi-center FDA Investigational Drug/Device Exemption trials in cardiac surgery/cardiology. Under his Direction, the Emory CRU grew from one to 17 FTEs, building an infrastructure for the Emory Division of Cardiothoracic Surgery to conduct rigorous clinical trials to inform evidence-based practice. The database portion of this infrastructure also informs the Quality Improvement initiatives within the Division. Dr. Puskas wrote the UO-1 grant application that made Emory University a founding Core Clinical Site within the NHLBI Cardiothoracic Surgical Trials Network in 2007. He also served as Mentor for Michael Halkos, MD, in his K23 NIH Mentored Career Development Award application, which was funded in 2012. Since being recruited to the Mount Sinai Health System, Dr. Puskas has founded and co-directs the Cardiovascular Clinical Research Unit at Mount Sinai Beth Israel and Mount Sinai Saint Luke's, to create a multidisciplinary collaborative clinical research infrastructure to allow busy clinical Cardiologists and Cardiovascular Surgeons to enroll patients in multiple trials and be academically productive. He wrote, revised and resubmitted a RO-1 grant application to lead a network of 47 clinical sites nationwide to conduct the first RCT of Hybrid Coronary Revascularization. This grant was funded in July, 2016 (#RO1 HL125488-01A1) and has closed enrollment, pending follow-up and publication (NCT03089398).

FDA IDE National Principal Investigator (NPI) Roles:

1. COMMENCE, FDA IDE trial NCT01757665 sponsored by Edwards Lifesciences, Irvine CA (2012-2020) (next generation preservation technology for bovine pericardial tissue used in heart valves; 10-yr FU ongoing)
2. PROACT, FDA IDE trial NCT00291525 sponsored by On-X Life Technologies, Austin TX, (2006-2018) (lower anticoagulation regimen for the On-X mechanical heart valve; approved with new FDA IFU)
3. International PI: REQUEST International Registry NCT02385344 sponsored by Medistim, ASA, Sweden (2015-2017) (intraoperative assessment of bypass graft quality by transit-time Doppler; post-market study)
4. eMesh Trial, FDA IDE trial NCT01676376 sponsored by Kips Bay Medical, Minneapolis MN (2012-2015) (external nitinol mesh support for saphenous vein grafts; trial terminated; device not approved)
5. EPIC, FDA IDE trial NCT00355563 sponsored by Cardica Inc., Palo Alto CA (2006-2008) (clampless aortic anastomotic connector device; approved and marketed)
6. US Surgeon Leader: EXCEL, FDA IDE trial NCT01205776 sponsored by Abbott Vascular, Santa Clara CA (2010-2019) (large international RCT of CABG versus PCI for patients with left main stenosis; ongoing)
7. International PI: VEST, FDA IDE trial sponsored by Vein Graft Solutions, Tel Aviv, Israel, (Q4 2016-2020) (external cobalt-chromium mesh support for saphenous vein grafts in CABG). Presented at AHA 2022.

GRANT SUPPORT (\$=Direct Costs):

Federal Research Awards (\$=Direct Costs):

1. **National Principal Investigator** (PD/PI) NHLBI #RO1HL125488-01A1/1UO1HL125488-01A1, Investigator Initiated Multi-Site Clinical Trial Collaborative, "Hybrid Coronary Revascularization", Clinical Coordinating Center, CCC, \$1,513,168; Data Coordinating Center (Icahn School of Medicine at Mount

- Sinai), DCC, \$7,346,746 (July 2016 – 2022)
2. **Mentor** for K23 Mentored Career Development Award to Dr. Michael Halkos, Emory Division of CT Surgery, #K23HL105892-03, \$500,000 (2011-2016)
 3. **Principal Investigator:** NHLBI Cardiothoracic Surgical Trials Network Clinical Center Grant, Award #1 U01 HL088928-01, \$1,786,250 (2007-2012)
 4. **National Principal Investigator:** NHLBI CTSN, ARRA Award # 1-RC1HL100951, Hybrid Coronary Revascularization Observational Study, \$1,000,000 (2009-2011)
 5. **Site Principal Investigator:** NHLBI CTSN, Award # 7-001-HL088942 Periop AF and AF Ablation \$898,560 (2009-2012)
 6. **Site Principal Investigator:** NHLBI CTSN, Award # Moderate MR, \$263,578 (2008-2012)
 7. **Site Principal Investigator:** NHLBI CTSN, Award # Severe MR, \$231,123 (2008-2012)
 8. **Site Principal Investigator:** NHLBI CTSN, Award # 7-001-HL088942, Infection Registry \$70,567 (2008-2012)
 9. **Site Co-Principal Investigator:** NHLBI/Mount Sinai/NERI, Award # FREEDOM, \$218,194.00, (2006-2011)

Other:

5/2006 – 5/2012

International Principal Investigator, Medical Carbon Research Institute, PROACT Trial, Award # On-X Valve, \$195,830.00.

8/17/2009 - 8/17/2011

Principal Investigator, Genzyme, Inc., Award # RENDX00109 \$201,425.00.

Previous Support:

2000 - 2003

Co-Investigator Medtronic Inc. MOSAIC Porcine Valve Prosthesis.

2000 - 2003

Co-Investigator Prospective Randomized Evaluation of Perfusion-Assisted Direct Coronary Artery Bypass and Enhanced Perfusion-Assisted Direct Coronary Artery Bypass Using Adenosine as Facilitating Technology for Off Pump Coronary Artery Bypass Surgery (PADCAB/Enhanced PADCAB). Quest Medical Inc.

2000 - 2004

Principal Investigator Medtronic Surgical Management of Arterial Revascularization Therapies (SMART) Trial \$1,400,000.00

2003 - 2006

Co-Investigator Corgentech A Phase III, Multi-Center Randomized, DoubleBlind, Placebo-Controlled Trial of the Ex Vivo Treatment with CGT003 of Coronary Vein Grafts in Patients Undergoing Coronary Artery Bypass Graft Procedures (Prevent IV). Award # Prevent IV

2003 - 2007

Principal Investigator St. Jude Medical, An Observational, Prospective Evaluation of the SJM Epic Valve Award # EPIC

2003 - 2007

Co-Investigator Medical Carbon Research Institute Reduced On-X Morbid Events (ROME) Trial, (MCRI, LLC) Award # ROME

2005 - 2008

Principal Investigator Cardiogenesis Corporation Award # TRM-05-001

2006 - 2007

Principal Investigator Cardiothoracic Systems, Inc. Award # Heartstring

7/2007 - 7/2008

Principal Investigator Cardica, Inc. Award # Cardica PassPort

12/01/07 - 11/30/2009

Principal Investigator Maquet (formerly Boston Scientific) Award # Heartstring Transcranial Doppler Study

7/25/07 - 7/25/09

Principal Investigator Medtronic, Maquet (formerly Boston Scientific), Carlyle Fraser Heart Center Award # SMART Long-Term Follow-up \$600,000.00

CLINICAL SERVICE CONTRIBUTIONS:

2017 – Present	Fulltime clinical practice of adult cardiothoracic surgery at Mount Sinai Morningside (formerly Saint Luke’s) Hospital with four (4) full OR days each week. Average: approx. 300 major cases annually.
2015 – 2016	Fulltime clinical practice of adult cardiothoracic surgery at Mount Sinai Beth Israel Hospital with five (5) full OR days each week. Approx. 300 major cases annually.
2014 – 2015	Fulltime clinical practice of adult cardiothoracic surgery at Mount Sinai Hospital with two or more (2) full OR days each week and at Mount Sinai Beth Israel Hospital with three (3) full OR days each week. Average: over 200 major cases annually.
1996 - 2014	Fulltime clinical practice of adult cardiothoracic surgery at Emory University Hospital Midtown with three (3) full OR days each week. Average: approx 300 major cases annually.
2005-2014	Associate Chief , Division of Cardiothoracic Surgery, Emory University Department of Surgery
2005-2014 2005-2014	Chief of Cardiothoracic Surgery , Emory University Hospital Midtown Organized and led weekly Grand Rounds and Morbidity and Mortality Rounds, Division of Cardiothoracic Surgery, Emory University Department of Surgery
2011-2014	Quality Officer , Division of Cardiothoracic Surgery, Emory University Department of Surgery; organized multidisciplinary teams and led near-weekly meetings on two campuses to move Emory’s STS star-rating from 1-star (lowest 10% nationally) (2010) to 3-star (highest 10% nationally) (2014)
1996 - 2006	Regular participation in Emory cardiothoracic transplantation call schedule and performance of heart and lung transplantation as primary surgeon.
1996 - 2002	Cross-coverage of Emory General Thoracic Surgical service, as required.

FORMAL TEACHING:

Medical Student Teaching:

1996-2014	Clinical instruction during Emory medical student rotations
1998 - 2000	Clinical instructor in fourth year Surgical Anatomy elective
2003	Mentor, Emory School of Medicine Mentorship Program
2010 - 2012	Mentor, Senior BME Students at Georgia Tech
2010 - 2012	Instructor, Rollins School of Public Health Summer School Students, Biostatistics

Graduate Program:

2019 – Present	Founder/Director, Non-ACGME Track Fellowship in Advanced Coronary Surgery , Mount Sinai Saint Luke’s (world’s first such program)
2017 – Present	Chairman, Department of Cardiovascular Surgery, Mount Sinai Morningside (formerly Saint Luke’s), responsible for didactic and operative training of ACGME and non-board tract residents and fellows in Cardiothoracic Surgery
2014 - 2016	Chairman, Department of Cardiovascular Surgery, Mount Sinai Beth Israel , responsible for didactic and operative training of ACGME and non-board tract fellows in Cardiothoracic Surgery rotating at Mount Sinai Beth Israel

2008 - 2014	Founder/Director , Non-Board Track Fellowship in Adult Cardiac Surgery, Emory Hospitals
1996 - 2014	ACGME Cardiothoracic Surgery Fellowship Training Programs: Clinical Instruction, operative training and didactic lectures during rotations at Emory University Hospital Midtown and Emory University Hospital
1996 - 2014	General Surgery Residency Program: Clinical instruction and operative training during rotations at Crawford Long (Emory Midtown) Hospital and on Transplantation Service at Emory University Hospital
2003	Nursing Education Programs: Invited Speaker: OPCAB with Arterial Grafts: The Future of Coronary Surgery Emory Cardiovascular Nursing Conference "Setting The Pace 2003". Emory Conference Center

Post-Graduate Extramural Training Programs:

1999-2014	Operative instruction and demonstration of off-pump CABG techniques at Emory University Hospital Midtown for approximately 200 individual visiting surgeons and surgical team members, sponsored by Medtronic.
2002	Operative instruction, demonstration of off-pump CABG techniques and one-on-one mentoring of attending surgeons at extramural centers in Florida, Texas and Pennsylvania, sponsored by The Society of Thoracic Surgeons.
2000 – 2003	Moderator and Faculty Member. Industry-sponsored educational symposia on off pump CABG. Each symposium provided comprehensive teaching in OPCAB to 40-50 surgeons: <ul style="list-style-type: none"> ➤ Medtronic Off-Pump 2000 -The State of Coronary Bypass ➤ Medtronic Off-Pump 2001 ➤ Medtronic Off-Pump 2002 ➤ Medtronic Beating Heart Summit: An Advanced Approach.
2001	Invited Faculty, Edwards Life Sciences, Cardiothoracic Chief Resident Symposium, "State-of-the Art Off-Pump Surgery", Irvine, CA.
2003	Invited Faculty, St. Jude Medical, Cardiothoracic Chief Resident Symposium, "OPCAB with Arterial Conduits Is The Future", Minneapolis, MN
2003	Teaching Presentations at Emory University Hospital Midtown Cardiothoracic Surgery/Cardiology joint rounds approximately every third month.
2003	Lecture. "OPCAB: State of the Art", given to Carlyle Fraser laboratory fellows and visiting students from St. Olaf's College.
2003	Directed and Moderated an industry-sponsored symposium on off-pump CABG at Emory University Hospital Midtown for 40 surgeons, anesthesiologists, PAs and RNs, including live tele-surgery, interactive education, panel discussions, lectures from Emory surgical, anesthesia, nursing and PA staff. Off-Pump CABG: A Team Approach.

INVITED LECTURES AT NATIONAL OR INTERNATIONAL CONFERENCES:

1. University of South Florida, Tampa, Florida. "Minimally Invasive Total Myocardial Revascularization". Invited Speaker 1998, 1999, 2000.
2. Minimally Invasive and Laparoscopic Surgery Into The 21st Century. Brisbane, Australia. Invited Faculty 1998.
3. Latest Techniques in Minimally Invasive Cardiac Surgery. Brussels, Belgium. Invited Faculty 1998.
4. A Cardiac Surgery Roundtable, "Coronary Artery Bypass Off-Pump Surgical Techniques and Clinical Issues". Scottsdale, Arizona. Invited Speaker 1999.
5. Latest Techniques In Minimally Invasive Cardiac Surgery. Glasgow, Scotland. Invited Faculty 1999.
6. Cardiothoracic Techniques and Technologies: "Current Trends in Thoracic Surgery VI". Bal Harbor, Florida. Invited Faculty 2000.
7. American College of Cardiology. Anaheim, California. Invited Faculty 2000.
8. American Association for Thoracic Surgery. "Controversies in Off-Pump Coronary Artery Bypass". Toronto, Canada. Invited Faculty 2000.
9. American College of Surgeons, Plenary Session. Chicago, Illinois. Invited Faculty 2000.
10. Cardiopulmonary Bypass In The 90's. Atlanta, Georgia. Invited Faculty 1996-2001.
11. Fifth Annual New Era Cardiac Care: Innovation & Technology. Dana Point, California. Invited Faculty 2002.
12. American Society of Echocardiography, "Intra Operative Echo for OPCAB". Orlando, Florida. Invited Speaker 2002.
13. South Atlantic Cardiovascular Society. Williamsburg, Virginia. Faculty and Invited Speaker 2002.
14. Utrecht Workshop in Minimally Invasive Cardiac Surgery. Monaco. Invited Faculty, Moderator and Speaker 2002.
15. American Heart Association. Chicago, Illinois. Invited Faculty 2002.
16. 7th Annual Advanced Coronary and Peripheral Interventional Symposium: A Case Review Workshop. Vail, Colorado. Invited Faculty 2002.
17. Society of Cardiac Surgeons. Montreal, Canada. Invited Faculty 2003.
18. Medtronic Symposium: Advanced Techniques and Technologies in Cardiac Surgery. Atlanta, Georgia. Invited Faculty 2003.
19. American Heart Association. Orlando, Florida. Invited Faculty 2003.

20. Northern Exposure OPCAB Symposium. Toronto, Canada. Invited Speaker 2003.
21. The Society of Thoracic Surgeons, Plenary Session. San Antonio, Texas. Invited Discussant 2004.
22. The Society of Thoracic Surgeons. "OPCAB: How I Do It". San Antonio, Texas. Invited Speaker 2004.
23. The Society of Thoracic Surgeons. "Tips and Techniques for Multivessel OPCAB". San Antonio, Texas. Invited Speaker 2004.
24. American Association for Thoracic Surgery, Post Graduate Course, Toronto, Ontario Canada. Invited Speaker 2004.
25. International Society for Minimally Invasive Cardiothoracic Surgery. Bangkok, Thailand. Invited Speaker 2004.
26. 5th Annual Meeting of the Japanese Association for Thoracic Surgery. Sapporo Japan. Invited Speaker 2004.
27. University of Ottawa Heart Institute Grand Rounds. Ottawa, Canada. Invited Speaker 2005.
28. 6th International Symposium of Redo Cardiac Surgery in Adults. San Francisco, California. Invited Speaker 2005.
29. 85th Annual Meeting of the American Association for Thoracic Surgery. San Francisco, California. Invited Speaker 2005.
30. International Society for Minimally Invasive Cardiothoracic Surgery, Annual Scientific Meeting. New York, New York. Invited Speaker 2005.
31. Off-Pump CABG National Symposium. Tokyo, Japan. Invited Speaker 2005.
32. Japanese Association for Coronary Artery Surgery. Tokyo, Japan. Invited Speaker 2005.
33. 14th Annual Meeting of the International Society for Cardiothoracic Surgery. Beijing, China. Invited Speaker 2005.
34. 55th Annual Scientific Session of the American College of Cardiology. Atlanta, GA. Invited Speaker 2006.
35. International Society of Minimally Invasive Cardiothoracic Surgery, Annual Scientific Meeting. San Francisco, California. Invited Speaker and Invited Moderator 2006.
36. European Association for Cardiothoracic Surgery Annual Techno-College meeting. Stockholm, Sweden. Invited Speaker and Invited Moderator 2006.
37. Southern Thoracic Surgical Association 53rd Annual Meeting. Tucson, Arizona. Invited Speaker and Invited Moderator 2006.
38. American College of Cardiology Foundation, ACC Symposium. Chicago, Illinois. Invited Speaker

- 2006.
39. The American Association for Thoracic Surgery 68th Annual Meeting. San Diego, California. Invited Speaker and Invited Moderator 2006.
 40. International Society Minimally Invasive Cardiothoracic Surgery (ISMICS) Winter Workshop. Okinawa, Japan. Invited Guest Speaker and Moderator 2006.
 41. The Society of Thoracic Surgeons 43rd Annual Meeting. San Diego, California. Invited Speaker and Invited Moderator 2007.
 42. Emory Practical Intervention Course (EPIC) Live Demonstration Course Surgical Presentation. "The Goal of Optimal Coronary Revascularization". Atlanta, Georgia. Invited Speaker 2007.
 43. The American Association for Thoracic Surgery 87th Annual Meeting. Washington, DC. Invited Speaker and Invited Moderator 2007.
 44. International Society of Minimally Invasive Cardiothoracic Surgery, Annual Scientific Meeting. Rome, Italy. Invited Speaker and Invited Moderator 2007.
 45. The 9th Annual Meeting of Off-Pump CABG Symposium. Tokyo, Japan. Invited Speaker 2007.
 46. Southern Thoracic Surgical Association 54th Annual Meeting. Ft. Myers, Florida. Invited Speaker and Invited Moderator 2007.
 47. American Heart Association Scientific Session. Orlando, Florida. Invited Speaker 2008.
 48. The Society of Thoracic Surgeons 44th Annual Meeting. Ft. Lauderdale, Florida. Invited Speaker and Invited Moderator 2008.
 49. The International Symposium for Cardiac Surgery. "Coronary Artery Bypass, Off-pump CABG: Evidence and Technique". Fairfax, Virginia. Invited Speaker 2008.
 50. International Society for Minimally Invasive Cardiothoracic Surgery. Annual Scientific Meeting. Boston, Massachusetts. Invited Speaker and Invited Moderator 2008.
 51. Society Thoracic Surgeons University 4th Annual Meeting. San Francisco, California. Invited Speaker and Course Director 2009.
 52. American Association for Thoracic Surgery, NIH Grant Writing Workshop. "Developing a Clinical Research Program (What It Takes)". Bethesda, Maryland. Invited Speaker 2009.
 53. 45th Annual Meeting, Robert M. Jeresaty, M.D. Cardiovascular Symposium. West Hartford, Connecticut. Invited Speaker 2009.
 54. AATS/STS Postgraduate Symposium. Boston, Massachusetts. Invited Speaker 2009.
 55. International Society for Minimally Invasive Cardiothoracic Surgery, Presidential Address. San Francisco, California. 2009.

56. The 6th Annual Scientific Meeting of the Japanese Association for Thoracic Surgery. Yokohama, Japan. Invited Speaker 2009.
57. The American Heart Association and Scientific Sessions. "Management of Postoperative MI". Orlando, FL. Invited Speaker and Invited Moderator 2009.
58. Specialty Hospital of Jordan, Amman, Jordan. Visiting Professor, Cardiovascular Grand Rounds 2009.
59. ISMICS Winter Workshop. Coronary Artery Bypass Surgery: Changing Times. "Management of Multivessel Coronary Artery Disease". New Delhi, India. Invited Speaker and Invited Moderator 2009.
60. 46th Annual Meeting. The Society of Thoracic Surgeons. "Long-term Outcomes From The Smart Study". Fort Lauderdale, FL. Invited Speaker 2010.
61. The 90th Annual American Association Thoracic Surgery Meeting. Toronto, Ontario, Canada. Invited Speaker, "Working with Industry" and "Off Pump CABG -Does it Remain Relevant?" Invited Moderator 2010.
62. American Association for Thoracic Surgery, "Neurocognitive and Neuroanatomic Changes After Off-Pump vs On Pump CABG: Long Term Follow Up of a Randomized Trial". Toronto, Ontario, Canada. Invited Speaker 2010.
63. International Society for Minimally Invasive Cardiothoracic Surgery Annual Meeting, Poster Competition "Avoidance of Aortic Clamping Is Associated with Fewer Intraoperative Cerebral Emboli Even in Patients Without Significant Atherosclerosis of the Ascending Aorta: Results of a Prospective Randomized Trial". Berlin, Germany. Invited Speaker 2010.
64. Transcatheter Cardiovascular Therapeutics 2010. "CABG Should be Performed Without Cardiopulmonary Bypass", "An Update on the NIH Hybrid Planning Grant" and "Hybrid Coronary Revascularization: Two Interesting Cases from Emory University". Washington, DC. Invited Speaker 2010.
65. Controversies and Advancement in the Treatment of Cardiovascular Disease: the Tenth in the Series. "Debate: Beating Heart Treatment of CAD: Surgery Remains the Gold Standard". Beverly Hills, California. Invited Speaker 2010.
66. ACCF/AHA Task Force on Practice Guidelines "Guideline on Coronary Artery Bypass Graft Surgery (CABG)". Washington, DC. Committee Member. 2010.
67. Northeast Cardiothoracic Surgical Society. "Off Pump CABG: Where Are We in 2010". East Madison, New Hampshire. Invited Speaker 2010.
68. Annual Scientific Meeting, Australasian Society of Cardiac and Thoracic Surgeons. "Syntax 3 Results", "The Evidence for Bilateral Internal Thoracic Artery Grafting", "PROACT Study Design and Recruitment Experience", "Techniques for Safe and Effective Re-Operation in Coronary Bypass Surgery", "Ischemic Mitral Regurgitation: When to Repair, Replace and Just Graft", and "Off Pump Coronary Bypass Surgery". Sydney, Australia. Invited Speaker 2010.

69. On-X Life PROACT Investigators Meeting, "National PI's Update on the PROACT Trial". Orlando, Florida. Invited Speaker 2010.
70. The Society of Thoracic Surgeons 47th Annual Meeting. Meeting Moderator and Invited Speaker. Thoracic Resident Symposium, "Hybrid Coronary Revascularization-. Satellite Symposium", "Reduced Anticoagulation Studies and Alternatives", "STS Workforce Presentation", "Syntax Trial: Effective Left main and Multivessel CAD Treatment: A Surgical and Cardiology Perspective", and "Why Randomized Trials in CAD are Important to Surgeons". Invited Speaker, San Diego, California, 2011.
71. Society for Cardiothoracic Surgery of Great Britain and Ireland (SCTS), "OPCAB, State of the Art - Off-Pump Coronary Artery Bypass Surgery: It's Role in 2011", "Endoscopic Conduit Harvesting". SCTS Annual Meeting "The Current and Future Status of OPCAB In Revascularization". London, England. Invited Keynote Speaker and Honorary Member of the SCTS, 2011.
72. American College of Cardiology ACC.11. "Unprotected Left Main PCI: Change in Guidelines, Change in Practice Case Presentation", "Left Main Bifurcation-The Surgical Point of view", "Surgical and Hybrid Point of View", Featured Clinical Research "Reduced anticoagulation for a Mechanical Heart Valve", and "Antiplatelet Therapy in ACS Patients undergoing CABG". New Orleans, Louisiana. Invited Speaker 2011.
73. Emory Practical Interventional Conference (EPIC) 2011. "Coronary Revascularization in Advanced Disease, The Role of the Heart Surgeon". Atlanta, Georgia. Invited Speaker 2011.
74. 8th Current Trends in Aortic and Cardiothoracic Surgery, "Is There Still a Raging Debate Over Off-pump vs. On-Pump CABG Surgery?" Houston, Texas. Invited Speaker 2011.
75. American Association Thoracic Surgeons Annual Meeting, AATS Leadership Academy -Current Division Chiefs Program, "Working with Industry". Invited Guest speaker "Current Status of Reduced Anti-Coagulation Trial". Moderator, Coronary Artery Disease in 2011 --What the Surgeon needs to know about Three Year Syntax Outcomes, Other Randomized Controlled Trials in CAD and the new CABG Guidelines. Speaker "Why Randomized Trials in CAD are important to Surgeons and How to Discuss them with your Cardiologists". Session Speaker "Sex and Gender: The Impact on Disease and Patient Outcomes in Cardiothoracic Surgery", "The Many Faces of Coronary Artery Disease". Philadelphia, Pennsylvania. Invited Speaker 2011.
76. Harvard Medical School Alumni Day, "Re-Engineering Coronary Bypass Surgery", Invited Speaker 2011.
77. National Cardiovascular Controversies (NCC) Resilient Bioprosthesis versus Mechanical Valves". Greensboro, Georgia. Invited Speaker 2011.
78. Transcatheter Cardiovascular Therapeutics (TCT) 2011, "The NIH Trial on Hybrid revascularization: Rationale, Design and Status Update" and "When is Off Pump the Right Choice"? Invited Speaker 2011.
79. CABG Guideline Review, American Heart Association (AHA) 2011. "Update on Revascularization Guidelines", Orlando, Florida. Invited Speaker and Invited Moderator 2011.
80. OPCAB lecture, JoHann Leopold Ehrenhaft Lecture, "Innovations in Cardiothoracic Surgery",

Carver College of Medicine, University of Iowa. Invited Speaker 2011.

81. Society of Thoracic Surgeons (STS). Ft. Lauderdale, Florida. Invited Speaker for Duke University Cardiothoracic Resident Symposium, "Hybrid Coronary Revascularization", 2012.
82. Society of Thoracic Surgeons (STS) "Bilateral Internal Thoracic Artery Grafting is Associated with Significantly Improved Long-term Survival, Even Among Diabetic Patients", Ft. Lauderdale, Florida. Invited Speaker 2012.
83. Society of Thoracic Surgeons (STS) "Sternotomy Versus Non-sternotomy LITA-LAD Grafting for Single Vessel LAD Disease". Ft. Lauderdale, Florida. Invited Speaker 2012.
84. Society of Thoracic Surgeons (STS). Ft. Lauderdale, Florida. Invited Debate Moderator, "PCI Versus CABG". 2012.
85. Florida Valve Meeting, "One moment please... Innovations that may make us re-think everything about TAVI-Mechanical AVR without anticoagulation". Orlando, Florida. Invited Speaker 2012.
86. Atlanta Clinical Cardiology Update, "Update on Surgical Coronary Revascularization". Atlanta, Georgia. Invited Speaker 2012.
87. American Association for Thoracic Surgery, "Off Pump Coronary Artery Bypass Grafting: Advanced Techniques and Helpful Hints". San Francisco, California. Invited Speaker 2012.
88. American Association for Thoracic Surgery, "OPCAB is Better Than Conventional CABG". San Francisco, California. Invited Moderator and Debater. 2012.
89. Medical School at Universidad Internacional del Ecuador, Meeting: Transcending Frontiers in Cardiology and Cardiovascular Disease, "Off Pump Coronary Bypass" and "Surgical Treatment of Atrial Fibrillation". Quito, Ecuador, Invited Speaker 2012.
90. International Society for Minimally Invasive Cardiothoracic Surgery (ISMICS), Los Angeles, California. ISMICS Cardiac Masters Day Off Pump Surgery Course, Chairman and Invited Speaker, 2012.
91. International Society for Minimally Invasive Cardiothoracic Surgery (ISMICS), "OPCAB: Why To Do It" and "OPCAB: How To Do it". Los Angeles, California. Invited Speaker 2012.
92. China Heart Congress and the American Association for Thoracic Surgery International Heart Symposium, Fuwai Hospital, "Techniques and Outcomes for Robotic Assisted LIMA-LAD and Stenting of Non LAD Vessel(s)". Beijing, China. Invited Speaker and Moderator 2012.
93. China Heart Congress and the American Association for Thoracic Surgery, International Heart Symposium, Fuwai Hospital, "Stand-alone Surgical Treatment for AFIB" and "The Effectiveness of the LAA Clip as Sole Therapy for Patients with AFIB Who Cannot Take Coumadin". Invited Speaker 2012.
94. Transcatheter Cardiovascular Therapeutics (TCT), "CABG Will Always Be The Preferred Approach". Invited Speaker 2012.

95. Transcatheter Cardiovascular Therapeutics (TCT), "Hybrid Revascularization: The Emory Approach". Invited Speaker 2012.
96. Transcatheter Cardiovascular Therapeutics (TCT), "Hybrid treatment of coronary artery disease". Invited Discussant 2012.
97. Transcatheter Cardiovascular Therapeutics (TCT), "CAD case presentations: CABG, PCI, hybrid or medical therapy". Invited Discussant 2012.
98. Turkish Cardiovascular Surgery Society and The American Association for Thoracic Surgery, "State of The Heart Update". Anatolia, Turkey. Invited Speaker 2012.
99. Turkish Cardiovascular Surgery Society and The American Association for Thoracic Surgery, "Tips of Off-Pump CABG". Anatolia, Turkey. Invited Speaker 2012.
100. 29th Annual Meeting of the Japanese Coronary Association, "From SYNTAX to EXCEL in U.S.". Tokyo, Japan. Invited Speaker 2012.
101. The 49th Annual Meeting of the Society of Thoracic Surgeons, Duke Thoracic Resident Symposium, "Hybrid Coronary Revascularization". Los Angeles, CA. Invited Speaker 2013.
102. The 49th Annual Meeting of The Society of Thoracic Surgeons, Workforce on National Database, "The Ongoing Off-Pump CABG Conundrum: OPCAB is superior to ONCAB". Los Angeles, CA. Invited Debate 2013.
103. The 49th Annual Meeting of the Society of Thoracic Surgeons, "Off-Pump and On-Pump Coronary Revascularization in Patients with Low Ejection Fraction: A Report from the STS National Database". Poster presentation 2013.
104. The 49th Annual Meeting of the Society of Thoracic Surgeons, "Hybrid Procedures are the Wave of the Future". Los Angeles, CA. Poster presentation 2013.
105. The 49th Annual Meeting of the Society of Thoracic Surgeons, "Mitral Valve Repair Not Replacement Provides Improved Long-Term Outcomes in Patients with a Low Ejection Fraction". Los Angeles, CA. Poster presentation 2013.
106. The 49th Annual Meeting of the Society of Thoracic Surgeons, "Impact of preoperative chronic lung disease on long-term survival for patients undergoing aortic valve replacement". Poster Los Angeles, CA. podium presentation 2013.
107. The 49th Annual Meeting of the Society of Thoracic Surgeons, "Readmissions after Cardiac Surgery: Experience of the NIH/CIHR Cardiothoracic Surgical Trials Network". Los Angeles, CA. Invited Speaker, 2013.
108. The 49th Annual Meeting of the Society of Thoracic Surgeons, "Tissue Valves Should Not Be Used in Patients Younger Than 65". Los Angeles, CA. Invited Speaker 2013.
109. The 49th Annual Meeting of the Society of Thoracic Surgeons, STS University Course, "Hybrid Revascularization, Los Angeles, CA. Invited Course Director 2013.

110. The 49th Annual Meeting of the Society of Thoracic Surgeons, “Emergent repair of acute Type A dissection and the impact of selective antegrade cerebral perfusion and mild hypothermic circulatory arrest”. Los Angeles, CA. Poster Presentation 2013.
111. American College of Cardiology 62nd Annual Meeting, “Hybrid Coronary Revascularization for the Treatment of Coronary Artery Disease: A Multi-Center Observational Study”. San Francisco, CA. Invited Speaker 2013.
112. American College of Cardiology 62nd Annual Meeting, 2013. “Interventional Cardiologists and Cardiac Surgeons: Concordance regarding anatomic eligibility for hybrid coronary revascularization in > 6,500 patients”. San Francisco, CA. Poster presentation. 2013
113. 21st Annual Thomas Ferguson Invited Lecture, “What’s New in Surgical Coronary Revascularization?” Visiting Professor, Washington University School of Medicine Division of Cardiothoracic Surgery, St Louis, MO., Invited Speaker 2013.
114. The 93rd Annual Meeting of the American Association for Thoracic Surgery, “Improving outcomes after coronary artery bypass surgery”. Minneapolis, MN. Invited Speaker 2013.
115. The 93rd Annual Meeting of the American Association for Thoracic Surgery, “Reducing stroke in coronary bypass with clampless off-pump surgery”. Minneapolis, MN. Invited Speaker 2013.
116. The 93rd Annual Meeting of the American Association for Thoracic Surgery, “The best care for cardiothoracic surgical ICU patients is a closed unit run by intensivists”. Minneapolis, MN. Invited Debate 2013.
117. The 93rd Annual Meeting of the American Association for Thoracic Surgery, “Whatever happened to OPCAB?” Minneapolis, MN. Invited Speaker 2013.
118. The International Society for Minimally Invasive Cardiac Surgery Annual Meeting, Invited Course Director, Cardiac Masters Day Program, Prague, Czech Republic. 2013.
119. Transcatheter Cardiovascular Therapeutics (TCT), “On-Pump vs Off-Pump CABG: Have Three ACC Late Breaking Trials Provided Clarity?”, “Hybrid Therapy: The Best of Both Worlds (and Considerations for a CTSN-Sponsored Randomized Trial”, Invited Speaker, and Invited Discussant. San Francisco, CA. October 27-29, 2013.
120. Visiting Professor, Grand Rounds, Department of Cardiothoracic Surgery, Cleveland Clinic Foundation, Cleveland Ohio. “State of the Art in Surgical Coronary Revascularization”. January, 2014.
121. The 50th Annual Meeting of the Society of Thoracic Surgeons, Invited Chairman, “State of the Art CABG: the Role of Arterial Grafts, Off-pump and Minimally Invasive Surgery”, Symposium audiotaped and transcribed for publication in Seminars in Thoracic and Cardiovascular Surgery. Orlando, FL. January 25-28, 2014.
122. The 50th Annual Meeting of the Society of Thoracic Surgeons, Duke Thoracic Resident Symposium: Emerging Technology, “Hybrid Coronary Revascularization”, Invited Speaker.

Orlando, FL. January 25-28, 2014.

123. International Society for Minimally Invasive Cardiothoracic Surgery Annual Meeting, “Clampless All Arterial OPCAB is Standard of Care for Multivessel Coronary Artery Disease”. Invited Speaker, Boston, MA, 2014.
124. Mount Sinai Hospital Cardiology Grand Rounds Expert Panel, “Stable Coronary Artery Disease”. Invited Speaker 2014
125. Transcatheter Cardiovascular Therapeutics (TCT), “Revascularization Decisions in Nondiabetic and Diabetic Patients with Multivessel Disease, The Case for CABG in Most Patients with Multivessel Disease with and without Diabetes”. Washington, DC, Invited Speaker 2014
126. Transcatheter Cardiovascular Therapeutics (TCT), “Didactic Symposia: Hypertrophic Cardiomyopathy and Septal Ablation, Session II: Alcohol Septal Ablation”. Washington, DC, Invited Speaker 2014
127. American Association For Thoracic Surgery, “Beating Heart CABG: How to Do It Safely”, Toronto, Canada, Invited Speaker 2014.
128. American Association For Thoracic Surgery, “CABG for Complex Coronary Disease in the Diabetic and in the Elderly A Perspective of “Coming Back” and with “New Technology”. Toronto, Canada. Invited Speaker 2014.
129. Japanese Association for Coronary Artery Surgery. Tokyo, Japan, Invited Speaker and Moderator 2014.
130. European Association for Cardio-Thoracic Surgery, “New nuggets from late-breaking clinical trials”. Milan, Italy. Invited Speaker 2014.
131. European Masterclass, “Bilateral Internal Mammary Arteries Bilateral ITA grafts: The facts in 2014”, Off-Pump Approaches”, An American Perspective of Contemporary CABG, Arterial Grafts and Off-Pump Surgery”, Oxford, UK. Symposium Co-Chairman and Invited Speaker 2014.
132. Dallas-Leipzig Valve 2014 Meeting “Mechanical Valves with Low Dose Anticoagulation”. Dallas, TX. Invited Speaker 2014.
133. New York Cardiovascular Symposium “CABG for Complex Coronary Disease in the Diabetic and in the Elderly A Perspective of “Coming Back” and with “New Technology”. New York, NY, Invited Speaker 2014.
134. Israel Heart Society “Hybrid Coronary Revascularization: A New Treatment Paradigm for Selected Patients with CAD”. Tel Aviv, Israel. Invited Speaker 2015
135. Israel Heart Society “The FDA PROACT Trial: Safe Management of Patients with Lower INR after Mechanical AVR”. Tel Aviv, Israel. Invited Speaker 2015
136. American Association For Thoracic Surgery (AATS) “Advanced Techniques for State of the Art Coronary Bypass Surgery (Session)”. Seattle, WA. Invited Course Chair 2015

137. American Association For Thoracic Surgery (AATS) “How I Decide Conduits and How I Do It: Case Review by Expert Panel”. Seattle, WA. Invited Panel Expert 2015
138. American Association For Thoracic Surgery (AATS) “When to use Alternative Strategies: Hybrid, Connectors, Robot”. Seattle, WA. Invited Speaker 2015
139. Inaugural AATS International Coronary Congress. **Course Founder and Director** 2015, New York.
140. The 1st International Coronary Congress: State of the Art Surgical Coronary Revascularization. “Updated U.S. CABG Guidelines”. Invited Speaker 2015.
141. The 1st International Coronary Congress: State of the Art Surgical Coronary Revascularization. “BITA Grafting in Patients with Diabetes: When to Do It & When Not to Do It”. Invited Speaker 2015.
142. The 1st International Coronary Congress: State of the Art Surgical Coronary Revascularization. “The Evidence for All–Arterial OPCAB in 2015”. Invited Speaker 2015.
143. The 1st International Coronary Congress: State of the Art Surgical Coronary Revascularization. “Tips & Tricks for OPCAB”. Invited Speaker 2015.
144. The 1st International Coronary Congress: State of the Art Surgical Coronary Revascularization. “Redo CABG Off–Pump”. Invited Speaker 2015.
145. The 1st International Coronary Congress: State of the Art Surgical Coronary Revascularization. “Redo CABG Off–Pump”. Invited Speaker 2015.
146. Transcatheter Cardiovascular Therapeutics (TCT) “The case for Hybrid Coronary Revascularization (Let’s Split The Difference)”. San Francisco, CA. Organizing Chair and Invited Speaker 2015.
147. American Heart Association Scientific Session (AHA) “Therapeutic Decisions in Non-ST Elevation Myocardial Infarction”. Orlando, FL. Invited Speaker 2015.
148. Society for Thoracic Surgeons “Redo CABG with Patent Coronary Artery Bypass Grafts”. Phoenix, AZ. Invited Speaker 2016.
149. Heart Valve Society, “Can We Recommend Reduced Anticoagulation for Mechanical Valves?”, New York, NY. Invited Speaker, 2016
150. Society for Cardiothoracic Surgery in Great Britain and Ireland, Birmingham, UK. “Alternative Strategies for CABG”. Invited Speaker 2016.
151. Society for Cardiothoracic Surgery in Great Britain and Ireland, Birmingham, UK. “Redo CABG”. Invited Speaker 2016.
152. Society for Cardiothoracic Surgery in Great Britain and Ireland, Birmingham, UK. “Total Arterial Revascularization. How I Decide.” Invited Speaker 2016.

153. American Association for Thoracic Surgery “Total Arterial Revascularization, Left and Right” Invited Speaker, plenary session and “Total Arterial Revascularization” Invited Moderator for Adult Cardiac Surgery Postgraduate Course, Baltimore MD, May 2016.
154. American Association for Thoracic Surgery “The COMMENCE FDA Trial: Prospective Non-Randomized Multicenter Clinical Evaluation of the Edwards Pericardial Aortic Bioprosthesis”, Invited Speaker, Late Breaking Trials session, Baltimore MD, May 2016.
155. V Curso Bienal Cardiorax 2016. “Management of mitral regurgitation during coronary surgery”. Buenos Aires, Argentina, Invited Speaker June 2016.
156. V Curso Bienal Cardiorax 2016. “Clinical guidelines for choosing myocardial revascularization conduits”. Buenos Aires, Argentina, Invited Speaker 2016.
157. V Curso Bienal Cardiorax 2016. “Evolution of off-pump coronary and hybrid treatments”. Buenos Aires, Argentina, Invited Speaker 2016.
158. V Curso Bienal Cardiorax 2016. “All Arterial OPCAB in 2016 “Is there scientific evidence?”. Buenos Aires, Argentina, Invited Speaker 2016.
159. ISMICS 2016 Annual Scientific Meeting. “How I Do Multivessel OPCAB”. Invited Speaker 2016.
160. European Association for Cardiothoracic Surgery 2016. EACTS TV Studio Panel “Should FFR-guided CABG become the new standard”. Invited Participant 2016.
161. European Association for Cardiothoracic Surgery 2016. “Reduced anti-coagulation after mechanical aortic valve replacement: the PROACT Clinical Trial”. Invited Speaker 2016.
162. European Association for Cardiothoracic Surgery 2016. “The COMMENCE Trial: Two-year outcomes of the Edwards RESILIA aortic bioprosthesis”. Invited Speaker 2016.
163. Transcatheter Cardiovascular Therapeutics Annual Meeting-2016. “Event Title: Hot Topic Lunch: Hybrid Coronary Revascularization: Ready for Prime Time?” (Cosponsored by AATS), Invited Moderator 2016.
164. Transcatheter Cardiovascular Therapeutics Annual Meeting-2016. “Hybrid Coronary Revascularization: Results to Date (From Meta-analysis to the NIH Multicenter Observational Study)”. Invited Speaker 2016.
165. Transcatheter Cardiovascular Therapeutics Annual Meeting-2016. “Despite EXCEL And NOBLE, I Don't Believe PCI Should Be the Standard Revascularization Strategy for Most Patients With Left Main CAD!”. Invited Lecturer 2016.
166. Second AATS International Coronary Congress, Course Founder/Director, multiple lectures, November 11-13, 2016, New Delhi, India.
167. The 2nd International Coronary Congress Annual Meeting, New Delhi. “Total Arterial Revascularization Is the Holy Grail for CABG”. Invited Speaker 2016.
168. The 2nd International Coronary Congress Annual Meeting, New Delhi. “The Right strategy for the Right Target in the Right Patient”. Invited Moderator 2016.
169. The 2nd International Coronary Congress Annual Meeting, New Delhi. “Can BITA Adequately

- Supply the Entire Heart?”. Invited Speaker 2016.
170. The 2nd International Coronary Congress Annual Meeting, New Delhi. “Skeletonized BITA Harvest with the Harmonic Scalpel”. Invited Speaker 2016.
 171. The 2nd International Coronary Congress Annual Meeting, New Delhi. “Three Of My Own Cases in Which TTFM Made a Difference”. Invited Speaker 2016.
 172. The 2nd International Coronary Congress Annual Meeting, New Delhi. “Off-Pump Proximal Anastomotic Techniques to Avoid Atheroembolism”. Invited Speaker 2016.
 173. The 2nd International Coronary Congress Annual Meeting, New Delhi. “How I Do OPCAB”. Invited Speaker 2016.
 174. The 2nd International Coronary Congress Annual Meeting, New Delhi. “Moderate Ischemic MR: CABG or CABG-plus-MV Repair?”. Invited Speaker 2016.
 175. The 2nd International Coronary Congress Annual Meeting, New Delhi. “Thoracoscopic Ablation of Atrial Fibrillation and LAA Exclusion”. Invited Speaker 2016.
 176. ACC New York Cardiovascular Symposium-2016. “Hybrid Coronary Revascularization An Evolving Paradigm in Coronary Care”. Invited Speaker. December 2016.
 177. Association of Cardiothoracic Physician Assistants Annual Meeting. “Total Arterial Revascularization”. Invited Speaker, 2017.
 178. American Association Thoracic Surgeons Annual Centennial Meeting (AATS). “Best of Both Worlds - Hybrid Revascularization (MIDCAB+PCI)”. Invited Speaker 2017.
 179. American Association Thoracic Surgeons Annual Centennial Meeting (AATS). “Risk Factors, Recognition and Management of Peri-operative MI”. Invited Speaker 2017.
 180. American Association Thoracic Surgeons Annual Centennial Meeting (AATS). “Summary of NIH Randomized Trial of Hybrid Coronary Revascularization versus Percutaneous Coronary Intervention”. Invited Speaker 2017.
 181. American Association Thoracic Surgeons Annual Centennial Meeting (AATS). “Comparative Effectiveness of CABG versus PCI in a Real World STICH Population”. Invited Speaker 2017.
 182. American Association Thoracic Surgeons Annual Centennial Meeting (AATS). “A Prospective Trial of Anticoagulation and Antiplatelet Strategies After Mechanical Aortic Valve Replacement”. Invited Speaker 2017.
 183. AATS Symposium of Advanced Techniques in Coronary Artery Disease 2017. “Case Report and Live Case: One stage Hybrid Procedure for Multivessel Disease discussion”. Invited Discussant 2017.

184. AATS Symposium of Advanced Techniques in Coronary Artery Disease 2017. "Alternative for MIDCAB: multi staged Hybrid procedure". Invited Speaker 2017.
185. AATS Symposium of Advanced Techniques in Coronary Artery Disease 2017. "Key tips in the Management of Ischemic MR: Echocardiography, myocardial protection and surgical techniques". Invited Speaker 2017.
186. 44th Congress of the Brazilian Society of Cardiovascular Surgery, Rio de Janeiro. "From saphenous vein to total arterial and minimally invasive: What is the standard of care for CABG today?". Invited Lecturer 2017.
187. 44th Congress of the Brazilian Society of Cardiovascular Surgery, Rio de Janeiro. "Changing paradigms in choice of valve prosthesis - devices & approaches". Invited Lecturer 2017.
188. 44th Congress of the Brazilian Society of Cardiovascular Surgery, Rio de Janeiro. "Current surgical approach for CABG in the presence of ventricular dysfunction". Invited Speaker 2017.
189. 44th Congress of the Brazilian Society of Cardiovascular Surgery, Rio de Janeiro. "Clinical Trials that impact on surgical practice". Invited Commentator 2017.
190. 44th Congress of the Brazilian Society of Cardiovascular Surgery, Rio de Janeiro. "Surgical approach to ischemic mitral regurgitation". Invited Speaker 2017.
191. 44th Congress of the Brazilian Society of Cardiovascular Surgery, Rio de Janeiro. "Are there better preservation processes for biological valves?". Invited Speaker 2017.
192. Oxford OPCAB Masterclass-2017. "Full revascularization versus "incomplete" revascularization". Invited Speaker 2017.
193. Oxford OPCAB Masterclass-2017. "Latest technology for assessment of graft quality". Invited Speaker 2017.
194. Oxford OPCAB Masterclass-2017. "Endo-IMA harvesting technique". Invited Speaker 2017
195. Oxford OPCAB Masterclass-2017. "OPCAB General Considerations & Unusual Situations". Invited Speaker 2017.
196. Oxford OPCAB Masterclass-2017. "Robotic MIDCAB". Invited Speaker 2017.
197. 22nd Annual Meeting of the Japanese Association for Coronary Artery Surgery. "Treatment Strategy for Ischemic MR". Invited Speaker 2017.
198. 22nd Annual Meeting of the Japanese Association for Coronary Artery Surgery. "The COMMENCE Trial: two-year outcomes of the Edwards RESILIA aortic bioprosthesis". Invited Speaker 2017.
199. 22nd Annual Meeting of the Japanese Association for Coronary Artery Surgery. "Current status of

- OPCAB in USA”. Invited Speaker 2017.
200. 3rd International Coronary Congress, New York. “Advantages of Skeletonized BITA Harvest and BITA Grafting in Patients with Diabetes”. Invited Speaker 2017.
 201. 3rd International Coronary Congress, New York. “Endoscopic Radial Artery Harvest-Techniques and Outcomes”. Invited Speaker 2017.
 202. 3rd International Coronary Congress, New York. “All-Arterial Revascularization Gone Bad”. Invited Speaker 2017.
 203. 3rd International Coronary Congress, New York. “Endoscopic Radial Artery Harvest-Techniques and Outcomes”. Invited Speaker 2017.
 204. 3rd International Coronary Congress, New York. “Epi-aortic Scanning and Clampless Proximal Anastomoses”. Invited Speaker 2017.
 205. 3rd International Coronary Congress, New York. “Tips and Tricks for OPCAB”. Invited Speaker 2017.
 206. 3rd International Coronary Congress, New York. “3 of My Own Cases Where Graft Flow Measurement Made A Difference”. Invited Speaker 2017.
 207. 3rd International Coronary Congress, New York. “Current Role of Hybrid Coronary Revascularization: North America Perspective”. Invited Speaker 2017.
 208. 3rd International Coronary Congress, New York. “Moderate Ischemic MR: CABG or CABG+MV Repair?” Invited Speaker 2017.
 209. 3rd International Coronary Congress, New York. “Management of Coronary Ectasia and Coronary Aneurysms in 2017: Bypass, Ligate, or Ignore?”. Invited Speaker 2017.
 210. Transcatheter Cardiovascular Therapeutics-2017. “Hybrid Coronary Revascularization: Results to Date (From Meta-analysis to the NIH Multicenter Observational Study)”. Invited Speaker.
 211. Transcatheter Cardiovascular Therapeutics-2017. “Opening Salvo: Despite EXCEL and NOBLE, I Don’t Believe PCI should Be the Standard Revascularization Strategy for Most Patients with Left Main CAD!”. Invited Speaker.
 212. 3rd Annual Sones/Favaloro Scientific Session-2017, Cleveland Clinic. “On-Pump Better Than Off-Pump CABG?”. Invited Speaker.
 213. American Association for Thoracic Surgery 2017: Surgical Treatment of Arrhythmias and Rhythm Disorders. “CABG/AF Ablation”. Invited Speaker.
 214. Society of Thoracic Surgeons 54th Annual Meeting- 2018. “Overcoming Barriers to Adopting Concomitant Surgical AF Ablation in Daily Practice”. Invited Speaker.
 215. Society of Thoracic Surgeons 54th Annual Meeting- 2018. “Management of Diffuse CAD, Full

- Metal Jacket and Coronary Endarterectomy- Options for Diffuse CAD: Single Anastomosis, Multiple Anastomoses, Onlay Grafting, Endarterectomy”. Invited Speaker.
216. Society of Thoracic Surgeons 54th Annual Meeting- 2018. “When and How to Do All-Arterial Grafting- How to Safely Harvest BITAs, Minimizing Risk of DSWI and Optimizing Patency” Invited Speaker.
 217. Society of Thoracic Surgeons 54th Annual Meeting- 2018. “Techniques for Safe and Reliable OPCAB- How to Mobilize/Displace the Heart to Graft the Anterior, Inferior and Lateral Walls and Optimize Coronary Artery Stabilization”. Invited Speaker.
 218. American Association for Thoracic Surgery- 2018, San Diego. Adult Cardiac Program Chairman
 219. American Association for Thoracic Surgery- 2018, San Diego. “How to Harvest RA Grafts: Best Practices”. Invited Speaker.
 220. American Association for Thoracic Surgery- 2018, San Diego. “Tips and Tricks for Precise, Reproducible OPCAB”. Invited Speaker.
 221. American Association for Thoracic Surgery- 2018, San Diego. “AVR/CABG/ AF Ablation CABG Off/On Pump”. Invited Speaker.
 222. American Association for Thoracic Surgery- 2018, San Diego. “Debate: Severe Ischemic MR Should Replaced, Not Repaired in 2018”. Invited Moderator.
 223. American Association for Thoracic Surgery- 2018, San Diego. “Expert Opinion #3: Surgical AVR with the On-X Mechanical Prosthesis Should Be the first (and Last) Procedure For a 50 Year Old Patient with Severe AS”. Invited Speaker.
 224. American Association for Thoracic Surgery- 2018, San Diego. “Complex Coronary Revascularization”. Invited Speaker.
 225. Oxford OPCAB Masterclass- 2018. “Full revascularization versus incomplete revascularization”. Invited Speaker.
 226. Oxford OPCAB Masterclass- 2018. “Lessons learned from intraoperative graft assessment”. Invited Speaker.
 227. Oxford OPCAB Masterclass- 2018. “Endo-IMA harvesting technique”. Invited Speaker.
 228. Oxford OPCAB Masterclass- 2018. “My top 10 tricks for successful OPCABG”. Invited Speaker.
 229. Oxford OPCAB Masterclass- 2018. “Arterial grafting: General considerations and unusual situations”. Invited Speaker.
 230. Oxford OPCAB Masterclass- 2018. “Pitfalls to avoid with composite arterial conduits”. Invited Speaker.
 231. Oxford OPCAB Masterclass- 2018. “The North American Approach”. Invited Speaker.

232. Oxford OPCAB Masterclass- 2018. “Robotic MIDCAB”. Invited Speaker.
233. 4th International Coronary Congress, Beijing. “Progression of Native Disease After CABG: What Does It Mean For The Patient, Cardiologist and Surgeon?”. Invited Speaker 2018.
234. 4th International Coronary Congress, Beijing. “Special Invited Lecture: The Evidence Base for OPCABG in 2018”. Invited Speaker 2018.
235. 4th International Coronary Congress, Beijing. “East Meets West”. Invited Speaker 2018.
236. 4th International Coronary Congress, Beijing. “Heart Team Strategy for the Management of CAD: The Reality and the Future”. Invited Speaker 2018.
237. 4th International Coronary Congress, Beijing. “Three Cases In Which Graft Assessment Made A Difference”. Invited Speaker 2018.
238. 4th International Coronary Congress, Beijing. “The Evidence Base for OPCAB in 2018”. Invited Speaker 2018.
239. 4th International Coronary Congress, Beijing. “Common Pitfalls of OPCAB”. Invited Speaker 2018.
240. 4th International Coronary Congress, Beijing. “The New Era for CABG”. Invited Speaker 2018.
241. 4th International Coronary Congress, Beijing. “Advantages of Skeletonized BITA”. Invited Speaker 2018.
242. 4th International Coronary Congress, Beijing. “Moderate Ischemic MR”. Invited Speaker 2018.
243. 4th International Coronary Congress, Beijing. “No-Aortic-Touch OPCAB”. Invited Speaker 2018.
244. Michigan Society of Thoracic and Cardiovascular Surgeons- 2018. “The Ongoing Evolution of Surgical Coronary Revascularization”. Invited Keynote Speaker.
245. Transcatheter Cardiovascular Therapeutics-2018. “Hybrid Revascularization as an Alternative to PCI or CABG”. Invited Speaker.
246. Top Ten Topics In Clinical Cardiology, Mount Sinai Heart- 2018. “Resurgence of CABG: From Minimally Invasive to Hybrid and Wholly Arterial?”. Invited Speaker.
247. European Association for Cardiothoracic Surgery Meeting, Milan. “For the healthy 50 year old man with severe AS: SAVR with the On-X Mechanical Prosthesis should be the first (and last) procedure.” Invited Speaker 2018.
248. European Association for Cardiothoracic Surgery Meeting, Milan. “The Hybrid Trial”. Invited Speaker 2018.
249. European Association for Cardiothoracic Surgery Meeting, Milan. “Can we finally settle the off

- pump vs on pump debate?”. Invited Speaker 2018.
250. Korean Society for Thoracic and Cardiovascular Surgery (KSTCVS)- Seoul. “Session: “Evidence Base for CABG in 2018”. Invited Chairperson 2018.
 251. Korean Society for Thoracic and Cardiovascular Surgery (KSTCVS)- Seoul. “Moderate Ischemic MR: CABG or CABG-plus-MV Repair?”. Invited Speaker 2018.
 252. Korean Society for Thoracic and Cardiovascular Surgery (KSTCVS)- Seoul. “The Future of Surgical Coronary Revascularization”. Invited Speaker 2018.
 253. Philadelphia Cardiovascular Summit- 2018. “Hybrid Coronary Revascularization: collaboration where it counts”. Invited Speaker.
 254. XXIV Annual Meeting of the Russian Association of Cardiovascular Surgery (RACVS), Moscow-November, 2018. “The REQUEST Registry: Lessons Learned from Intraoperative Assessment of Graft Patency”. Invited Speaker.
 255. XXIV Annual Meeting of the Russian Association of Cardiovascular Surgery (RACVS), Moscow-November, 2018. “Hybrid Coronary Revascularization: A New Treatment Paradigm for Selected Patients with Coronary Artery Disease ”. Invited Speaker.
 256. Society of Thoracic Surgeons 55th Annual Meeting- 2019. “Coronary Revascularization Should Be Performed Only by Dedicated Coronary Artery Bypass Grafting Surgeons”. Invited Speaker.
 257. Society of Thoracic Surgeons 55th Annual Meeting- 2019. “The PROACT Trial”. Invited Speaker.
 258. Society of Thoracic Surgeons 55th Annual Meeting- 2019. “Indications and Techniques for Left Internal Mammary Artery to Diagonal to Left Anterior Descending Bridge Anastomoses”. Invited Speaker.
 259. Asian Society for Cardiovascular and Thoracic Surgery, Chennai - February, 2019. “Total arterial revascularization: How I Decide”. Invited Speaker.
 260. Asian Society for Cardiovascular and Thoracic Surgery, Chennai – February, 2019. “Advanced Techniques In CABG and Valve Reconstruction”. Invited Speaker.
 261. Asian Society for Cardiovascular and Thoracic Surgery, Chennai – February, 2019. “Complex off-pump CABG: Tips and tricks”. Invited Speaker.
 262. Asian Society for Cardiovascular and Thoracic Surgery, Chennai – February, 2019. “Priority in CABG – Completeness of Revascularization or Multiple Arterial Grafts”. Invited Speaker.
 263. Asian Society for Cardiovascular and Thoracic Surgery, Chennai—February 2019. “Totally Endoscopic Coronary Bypass Grafting”. Invited Speaker.
 264. Asian Society for Cardiovascular and Thoracic Surgery- 2019. “Hybrid Revascularization – A pragmatic approach or an unholy alliance Pro (Pragmatic)”. Invited Speaker.

265. American Association for Thoracic Surgery- 2019. “Master Video: All Arterial Grafting”. Invited Speaker.
266. American Association for Thoracic Surgery- 2019. “Robotic Assisted Coronary Bypass Surgery”. Invited Speaker.
267. American Association for Thoracic Surgery- 2019. “Antiplatelet Therapy After Revascularization”. Invited Speaker.
268. Oxford OPCAB Masterclass, Ghent, Belgium- 2019. “Full revascularization versus “incomplete” revascularization”. Invited Speaker.
269. Oxford OPCAB Masterclass, Ghent, Belgium- 2019. “My top 10 tricks for successful OPCABG”. Invited Speaker.
270. Oxford OPCAB Masterclass, Ghent, Belgium- 2019. “Lessons learned from intraoperative graft assessment”. Invited Speaker.
271. Oxford OPCAB Masterclass, Ghent, Belgium- 2019. “Endo-IMA harvesting technique”. Invited Speaker.
272. Oxford OPCAB Masterclass, Ghent, Belgium- 2019. “General considerations and unusual situations”. Invited Speaker.
273. Oxford OPCAB Masterclass, Ghent, Belgium- 2019. “The North American approach”. Invited Speaker.
274. 21st Annual Complex Coronary Case Symposium 2019, Mount Sinai Heart: “Revascularization in complex MV CAD to improve long-term outcomes: CABG for Most”. Invited Speaker/Debater.
275. Japanese Association for Coronary Artery Surgery 24th Annual meeting, Kanazawa, July 2019. “BITA grafting should be the default operation for CABG”. Invited Speaker.
276. Japanese Association for Coronary Artery Surgery 24th Annual meeting, Kanazawa, July 2019. “LITA-LAD Anastomosis: How I do it”. Invited Speaker.
277. Japanese Association for Coronary Artery Surgery 24th Annual meeting, Kanazawa, July 2019. “Revascularization in complex MV CAD to improve long-term outcomes: CABG for Most”. Invited Keynote Speaker.
278. OPCAB Masterclass Asia-Pacific, September, 2019, Tokyo. “LITA-LAD Anastomosis: How I Do It”. Invited Speaker.
279. OPCAB Masterclass Asia-Pacific, September, 2019, Tokyo. “OPCAB Techniques”. Invited Keynote Speaker.
280. OPCAB Masterclass Asia-Pacific, September, 2019, Tokyo. “Quality Control in OPCAB”. Invited Speaker.

281. OPCAB Masterclass Asia-Pacific, September, 2019, Tokyo. "ITA Harvesting". Invited Speaker.
282. OPCAB Masterclass Asia-Pacific, September, 2019, Tokyo. "Nightmare Cases". Invited Speaker.
283. OPCAB Masterclass Asia-Pacific, September, 2019, Tokyo. "What Surgeons Need to Know About FFR". Invited Speaker.
284. OPCAB Masterclass Asia-Pacific, September, 2019, Tokyo. "Robotic ITA Harvest". Invited Speaker.
285. OPCAB Masterclass Asia-Pacific, September, 2019, Tokyo. "Hybrid Coronary Revascularization". Invited Speaker.
286. European Association for Cardiothoracic Surgery 33rd Annual meeting, Lisbon, October 2019. "How to build a specialized coronary program". Invited Moderator.
287. European Association for Cardiothoracic Surgery 33rd Annual meeting, Lisbon, October 2019. "What have we learned in 3 decades of off-pump? OPCABG 3.0". Invited Speaker.
288. European Association for Cardiothoracic Surgery 33rd Annual meeting, Lisbon, October 2019. "Hybrid CABG: what to do and what not to do". Invited Speaker.
289. European Association for Cardiothoracic Surgery 33rd Annual meeting, Lisbon, October 2019. "Session Title: Coronary Artery Revascularization, what is the role of surgery today". Invited Panelist.
290. 5th International Coronary Congress Annual meeting, New York, December 2019. Course Director.
291. 5th International Coronary Congress Annual meeting, New York, December 2019. "The American Technique". Invited Speaker.
292. 5th International Coronary Congress Annual meeting, New York, December 2019. "Panel Discussion of Techniques for Coronary Endarterectomy and Stentectomy". Invited Panelist.
293. 5th International Coronary Congress Annual meeting, New York, December 2019. "Special Invited Lecture: Techniques for safe, reproducible OPCAB." Invited Speaker.
294. 5th International Coronary Congress Annual meeting, New York, December 2019. "Advanced techniques in OPCAB". Invited Speaker.
295. 5th International Coronary Congress Annual meeting, New York, December 2019. "Hybrid Revascularization: What will it take to make HCR mainstream?". Invited Speaker.
296. 5th International Coronary Congress Annual meeting, New York, December 2019. "Coronary Surgery should be a subspecialty". Invited Speaker.
297. The Society of Thoracic Surgeons 56th Annual meeting, New Orleans, January 2020. "On-X Heart Valve – Topic: PROACT Update". Invited Speaker.

298. The Society of Thoracic Surgeons 56th Annual meeting, New Orleans, January 2020. “Intraoperative Coronary Graft Assessment”. Invited Speaker.
299. The Society of Thoracic Surgeons 56th Annual meeting, New Orleans, January 2020. “STS 2020 Video Roundtable Filming – Topic: Stenting, Bypass, and/or Lifestyle Changes to Treat Patients with Severe But Stable Heart Disease”. Invited Speaker.
300. The Society of Thoracic Surgeons 56th Annual meeting, New Orleans, January 2020. “CABG for Stable CAD: Results of the Ischemia Trial”. Invited Speaker.
301. The Society of Thoracic Surgeons 56th Annual meeting, New Orleans, January 2020. “DEBATE: Multi-Arterial Off-Pump versus Traditional Coronary Artery Bypass Grafting - Why I Prefer Multi-Arterial, Off-Pump, No-Touch CABG”. Invited Speaker.
302. Mount Sinai Department of Cardiology Grand Rounds, August, 2020. “State-of-the-Art CABG in 2020”. Invited Keynote Speaker (virtual).
303. Global Virtual OPCAB Masterclass, September, 2020. “What Drives Me Towards OPCAB”. Invited Speaker (virtual).
304. Global Virtual OPCAB Masterclass, September, 2020. “Surgical Preparation for OPCAB”. Invited Speaker (virtual).
305. Global Virtual OPCAB Masterclass, September, 2020. “Grafting the Inferior Wall Off-Pump”. Invited Speaker (virtual).
306. Global Virtual OPCAB Masterclass, September, 2020. “Graft Selection, Distribution and An-Aortic OPCAB”. Invited Speaker (virtual).
307. Global Virtual OPCAB Masterclass, September, 2020. “Quality Assessment in OPCAB: Intraoperative TTFM and HIFU”. Invited Speaker (virtual).
308. Global Virtual OPCAB Masterclass, September, 2020. “Preventing Stroke in OPCAB: Minimizing Aortic Manipulation.” Invited Speaker (virtual).
309. 34th Annual Meeting of the European Association for Cardiothoracic Surgery, October, 2020 (virtual). “Hybrid Revascularization: When and How”. Invited Speaker (virtual).
310. 34th Annual Meeting of the European Association for Cardiothoracic Surgery, October, 2020 (virtual). “Achieving the Best Exposure in OPCAB”. Invited Speaker (virtual).
311. 34th Annual Meeting of the European Association for Cardiothoracic Surgery, October, 2020 (virtual). “What Does ISCHEMIA Tell Us About CABG?”. Invited Speaker (virtual).
312. 34th Annual Meeting of the European Association for Cardiothoracic Surgery, October, 2020 (virtual). “OPCAB in 2020: When, Why and Who?”. Invited Speaker (virtual).
313. 67th Annual Conference of the Indian Association of Cardiovascular-Thoracic Surgeons (Virtual),

- February 2021. “Bridging the Gap between Best Evidence and Common Practice in CABG: Simple Techniques to Consider in All Patients”. Invited Speaker (virtual).
314. Mount Sinai Department of Cardiology Grand Rounds September 2021. “The Ongoing Evolution of Surgical Coronary Revascularization”. Invited Speaker (virtual).
 315. CMICSC (Hybrid) Meeting, October 2021, Wuhan, China. “OPCAB Should Be Offered to All Patients with Stable Ischemic Heart Disease”. Invited Speaker (virtual).
 316. 35th Annual Meeting of the European Association for Cardiothoracic Surgery, Barcelona (Hybrid), October 2021. “When CABG Works Well and When it Does Not.” Invited Speaker (virtual).
 317. Association of Thoracic and Cardiovascular Surgeons of Asia/STS Thailand Annual Meeting November, 2021. “CABG in Ascending Aortic Disease: Surgical Principles of Anaortic OPCAB”. Invited Speaker (virtual).
 318. New York Society of Thoracic Surgeons Annual Meeting November 2021. “Innovation in Cardiothoracic Surgery Through Clinical Trials: Trials and Tribulations”. Invited Keynote Speaker (virtual).
 319. American Heart Association Scientific Sessions November 2021. “Efficacy and safety of an external support device for saphenous vein coronary bypass grafts: the VEST trial”. Invited Speaker.
 320. CardioExcellence 2021 Annual Meeting. “State-of-the-Art Surgical Coronary Revascularization in 2021”. Invited Speaker (virtual).
 321. Brazilian Society of Cardiovascular Surgeons 2021 Annual Meeting. “Myocardial Revascularization in Left Main Stem Stenosis: CABG Remains the Best Therapy for Most Patients”. Invited Keynote Speaker (virtual).
 322. All-Russia Minimally Invasive Cardiac and Arrhythmia Surgery (AMICS) Meeting (Hybrid), November, 2021, Moscow. “OPCAB: Surgical Principles”. Invited Speaker (virtual).
 323. 7th Annual Meeting of the International Coronary Congress, New York, December, 2021 (in-person). “How to Use BITA for CABG”. Invited Speaker.
 324. 7th Annual Meeting of the International Coronary Congress, New York, December, 2021 (in-person). “Hybrid CABG”. Invited Speaker.
 325. 7th Annual Meeting of the International Coronary Congress, New York, December, 2021 (in-person). “Endoscopic RA Harvesting: Barriers to Adoption”. Invited Speaker.
 326. 7th Annual Meeting of the International Coronary Congress, New York, December, 2021 (in-person). “Operative Strategy Session, Case Presentation”. Invited Speaker.
 327. 7th Annual Meeting of the International Coronary Congress, New York, December, 2021 (in-person). “Endarterectomy and Stentectomy”. Invited Speaker.

328. 7th Annual Meeting of the International Coronary Congress, New York, December, 2021 (in-person). “OPCAB on the Lateral Wall”. Invited Speaker.
329. 7th Annual Meeting of the International Coronary Congress, New York, December, 2021 (in-person). “Building a Successful CABG Program in the Most Competitive US Market”. Invited Speaker.
330. Society of Thoracic Surgeons 58th Annual Meeting (Hybrid) Miami Beach, January 2022. “The Transition for Open Chest CABG to Multi-Arterial Robotic OPCAB”. Invited Speaker (virtual).
331. Indian Society of Coronary Surgeons 2022 Inaugural (Hybrid) Meeting. “Management of Diffuse CAD: Stentectomy/Endarterectomy for LAD Full Metal Jacket with In-Stent Restenosis”. Invited Speaker (virtual).
332. Mount Sinai Heart, Advanced Innovations in Heart Failure 2022 (Virtual) Meeting. “Surgical Coronary Revascularization in Patients with Low Ejection Fraction”. Invited Speaker (virtual).
333. Transcatheter Therapeutics Asia Pacific 2022 Annual (Virtual) Meeting. “CABG Remains the Best Therapy for Most Patients with LM Stenosis”. Invited Speaker (virtual).
334. University of Toronto Division of Cardiac Surgery Grand Rounds May 2022. “State-of-the-Art CABG in 2022: The Ongoing Evolution of Surgical Coronary Revascularization.” Invited Keynote Speaker (virtual).
335. Society of Thoracic Surgeons Inaugural Coronary Conference, Ottawa, June 2022. “OPCAB: Surgical Principles”. Invited Speaker.
336. Society of Thoracic Surgeons Inaugural Coronary Conference, Ottawa, June 2022. “Stentectomy/Endarterectomy for LAD Full Metal Jacket with In-Stent Restonosis”. Invited Speaker.
337. Mount Sinai Heart, Latest Advances in Coronary Revascularization, August 2022. “Stentectomy: New Hope for Refractory Angina”. Invited Speaker.
338. Mount Sinai Heart, Latest Advances in Coronary Revascularization, August 2022. “Total Arterial Grafting: No-Aortic-Touch Technique”. Invited Speaker.
339. China Heart Congress, Beijing 2022 (Hybrid). “Total Arterial Grafting: No-Aortic-Touch Technique”. Invited Speaker (virtual).
340. 68th Annual Conference of the Indian Association of Cardiovascular and Thoracic Surgeons, April 2022. “Management of Diffuse CAD: Stentectomy/Endarterectomy for LAD Full Metal Jacket with in-Stent Restenosis.” Invited Speaker (virtual).
341. 44th Annual Meeting of the National Arab American Medical Association (Hybrid), September 2022. “State-of-the-Art CABG: Total Arterial Grafting by No-Aortic-Touch Technique”. Invited Speaker (virtual).
342. 36th Annual Meeting of the European Association for Cardiothoracic Surgery, Milan, October 2022.

“Quality Assessment by Intraoperative TTFM and HIFUS”. Invited Speaker.

343. 36th Annual Meeting of the European Association for Cardiothoracic Surgery, Milan, October 2022. “Optimizing Conduits for CABG”. Invited Plenary Session Moderator.

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1. Distefano R, Kupiec-Weglinski JR, **Puskas JD**. 1987. Therapeutic efficacy of anti-interleukin-2 receptor monoclonal antibodies in experimental organ transplantation. *Surgery Forum*; XXXVIII: 344346.
2. **Puskas JD**, Maccherini M, Keshavjee S, Slutsky AS, Patterson GA, Edelson JD. 1990. Low potassium dextran is superior to Eruo-Collins as a preservative solution in a type II pneumocyte cell culture model. *American Rev Respiratory Dis*; 141 (4):A406.
3. Cardoso PFG, Spino M, Mayer E, Shi SO, Pop RD, **Puskas JD**, Perrier O, Tong J, Baines AD, Patterson GA. 1991. Use of an isolated in-situ canine lung perfusion model to evaluate dopamine clearance by the lung. *Journal Pharm Exper Therapeutics*;259(3):1271-1276.
4. Shapiro ME, Kirkman RL, Reed MH, **Puskas JD**, Mazoujian G, Letvin NL, Carpenter CB, Milford EL, Waldmann TA, Stron TB. 1987. Monoclonal anti-IL-2 receptor antibody in primate renal transplantation. *Transplant Proc*; 19(1):594-598.
5. Oka T, **Puskas JD**, Mayer E, Cardoso PF, Shi SO, Wisser W, Slutsky AS, Patterson GA. Low-Potassium UW solution for lung preservation. 1991. Comparison with regular UW, LPO, and Euro-Collins solutions. *Transplantation*; 52(6):984-988.
6. Shaw LR, Miller JO, Slutsky AS, Maurer JR, **Puskas JD**, Patterson GA, Singer PA. 1991. Ethics of lung transplantation with live donors. *Lancet*; 338(8768):678-681.
7. Ueno T, Yokomise H, Oka T, **Puskas JD**, Mayer E, Slutsky AS, Patterson GA.1991. The effect of PGE-1 and temperature on lung functions following preservation. *Transplantation*; 52(4):626-630.
8. Mayer E, Cardoso PF, **Puskas JD**, Patterson GA, Oelert H. 1992. Revascularization of heterotopic isografts of the rat trachea using an omentum flap. *Pneumologie*;46(5): 190-195.
9. Mayer E, Cardoso PF, **Puskas JD**, Patterson GA, Oelert H. 1992. {Revascularization of heterotopic isografts of the rat trachea using an omentum flap} [German]. *Pneumatologie*, 46(5):190-195.
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11. Mayer E, **Puskas JD**, Cardoso PF, Shi S, Slutsky AS, Patterson GA. 1992. Reliable eighteen-hour lung preservation at 4 degrees and 10 degrees C by pulmonary artery flush after high-dose prostaglandin E1 administration. *Journal of Thoracic and Cardiovascular Surgery*;1 03(6):1136-

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13. **Puskas JD**, Winton TL, Miller JO, Scavuzzo M; Patterson GA 1992. Unilateral donor lung dysfunction does not preclude successful contra lateral single lung transplantation. *Journal of Thoracic and Cardiovascular Surgery*; 103(5):1015-1017.
14. **Puskas JD**, Cardoso PF, Mayer E, Shi S, Slutsky AS, Patterson GA. 1992. Equivalent eighteen-hour lung preservation with low potassium dextran or Euro-Collins solution after prostaglandin E1 infusion. *Journal of Thoracic and Cardiovascular Surgery*; 104(1):83-89.
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- Course Director, OPCAB/PADCAB course, 2000. Emory University Hospital, Cardiothoracic Research Laboratory
- Articles in Emory Momentum on OPCAB, 1999 & 2000 issues.
- Live Tele-surgery of multivessel OPCAB at Emory University Hospital transmitted to the Cardiothoracic Techniques and Technologies meeting, New Orleans, LA, 2001.
- Creation of teaching video for prospective cardiac surgical patients at Emory University, 2001.
- Creation of OPCAB instructional videos for cardiac surgeons, distributed by Medtronic, 2001-2002.
- Creation of teaching video: "A Challenging Case of Off-Pump CABG in Dextrocardia" presented at Fifth Annual New Era Cardiac Care, Dana Point, California. 2002.
- New York Times, Sunday Edition, featured with photo in article on OPCAB, 2003.
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- Print, radio and TV coverage of the JAMA 2004;291:1841-9 paper in over 250 major new outlets nationwide and numerous international news agencies as well, 2004,
- Newsweek Magazine Feature Article. 2005 pages 56-57 "And The Beat Goes On".
- Local/National Television Media "spots" for OPCAB:
 - Local human interest TV news spots on Channel 2 and Channel 11 in 1998 and 1999.
 - Discovery Channel story on innovative techniques in cardiac surgery, taped Mar, 2000,

- aired Dec. 2000.
 - CNN story on OPCAB taped, spring of 2000, aired fall of 2000.
- American Association for Thoracic Surgery, Education Committee, 2006. Created a 40-minute, interactive e-learning module for OPCAB, sponsored by AATS, in collaboration with the Cleveland Clinic and Accelerera Inc. Multiple intraoperative video clips shot at Emory Crawford Long Hospital. Instructional script. Quizzes and CME material developed at Emory, funded by AATS. This was the first comprehensive e-learning module developed by AATS for education of practicing surgeons and CT residents. Accessible online at aats.org.
- Numerous media video pieces related to leading the conversion of the Department of Cardiovascular Surgery at Mount Sinai Morningside Hospital into an advanced COVID-19 care facility:
 - <https://www.wsj.com/articles/national-study-finds-convalescent-plasma-to-treat-covid-19-is-safe-11589453869>
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