

**CURRICULUM VITAE**  
**JULIE ANN SWAIN, M.D.**

**Personal Data**

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**Birthplace**                    Long Beach, California  
**Birthdate:**                    September 24, 1948

**Present Position:**        Professor of Cardiovascular Surgery  
   Vice-Chair for Clinical Performance  
   Director of Research  
   Mount Sinai Hospital System and  
   Icahn School of Medicine at Mount Sinai

   Director, Center for Medical Devices  
   Mount Sinai Heart Institute at Icahn School of Medicine

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   1 Gustave L. Levy Place, Box 1028  
   New York, NY 10029

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**Email**                            Julie.Swain@mountsinai.org

**Education**

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1966-70                    University of California at Los Angeles  
   B.S. With Honors (Physical Chemistry)

1970-73                    Baylor College of Medicine MD

**Postgraduate Training**

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1973-4                    Research Fellow in the Department of Medicine (Cardiology)  
   Dr. Eugene Braunwald's Laboratory  
   Harvard Medical School

- 1974-9      Resident in General Surgery  
Baylor College of Medicine
- 1975-6      Postdoctoral Trainee  
Department of Cell Biophysics  
Dr. Arnold Schwartz's Laboratory  
Baylor College of Medicine
- 1975-79      Research Trainee in Academic Surgery  
Department of Surgery  
Baylor College of Medicine
- 1978-79      Chief Resident, General Surgery  
Baylor College of Medicine
- 1979-81      Chief Resident in Cardiothoracic Surgery  
Department of Surgery  
University of California, San Diego

### **Medical Licensure**

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California C37099 (1976)  
Prior licenses (Texas, Arizona, Maryland, Nevada, Kentucky)

### **Board Certification**

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American Board of Surgery: previously #25661, Certified: 1980, Recertified: 1992  
American Board of Thoracic Surgery: previously #3924, Certified: 1982, Recertified: 1991, 2000

### **Professional Experience**

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- 2002-2013      Special Assistant to the Director  
Division of Cardiovascular Devices  
Office of Device Evaluation  
Center for Devices and Radiological Health  
United States Food and Drug Administration
- 2000-2002      Acting Deputy Associate Administrator  
National Aeronautics and Space Administration  
Office of Biological and Physical Research  
NASA Headquarters, Washington DC
- 2000-2002      Lecturer, Harvard Medical School,  
Courtesy Staff (Surgery), Massachusetts General Hospital

1996-2002	Professor of Surgery (Tenured) Division of Cardiothoracic Surgery University of Kentucky College of Medicine
1996-1997	Chief, Cardiothoracic and Vascular Surgery University of Kentucky College of Medicine
1995-1996	DeBakey Heart Institute Kenosha Hospital and Medical Center Kenosha, Wisconsin
1992-1995	Chief of Surgery Veterans Administration Medical Center and Nellis Federal Hospital Las Vegas, Nevada
April-June 1992	Chief of Surgery (Acting) Veterans Administration Hospital Reno, Nevada
1990-1995	Professor of Surgery (Tenured) Vice Chair, Department of Surgery Chief, Division of Cardiovascular Surgery University of Nevada School of Medicine
1986-1990	Senior Staff Surgeon and Senior Investigator Cardiac Surgery Branch National Heart, Lung, and Blood Institute National Institutes of Health, Bethesda, Maryland
1986-1990	Public Health Service (NIH), Commander (Honorable Discharge)
1983-1986	Director, Cardiothoracic Surgery Medical Director, Surgical Intensive Care Unit Assistant Professor of Surgery Louisiana State University, Shreveport, Louisiana
1981-1983	Assistant Professor of Surgery Division of Cardiothoracic Surgery University of California, San Diego, California

### **Memberships (current and previous)**

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American Association for Thoracic Surgery  
Southern Thoracic Surgical Association  
Society of Thoracic Surgeons  
Society of University Surgeons  
American College of Cardiology  
American Heart Association Councils on Circulation, Basic Science, and  
Cardiovascular Surgery  
American Medical Association  
Michael E. DeBakey International Cardiovascular Society  
UCLA Association of Chemists and Biochemists  
Western Thoracic Surgical Association  
Women in Cardiothoracic Surgery  
Fellow of American College of Chest Physicians  
Fellow of American College of Surgeons

### **Government Advisory Committees**

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Medicare Evidence Development & Coverage Advisory Committee (MEDCAC)-  
Voting Member, 2014-present  
Medicare Advisory Committee, ad hoc Member, 2003  
Agency for Health Care Policy and Research, Practice Guidelines for  
Unstable Angina, 1992-1995  
US Food and Drug Administration  
Circulatory System Devices Panel, Member 1991 - 1997;  
Consultant 1990-1991; Chair, 1995-1997, Acting Chair, July, 2001  
Urological and GI Devices Panel-Voting Member and Consultant,  
1995  
Department of Defense, Civilian Review Panel, 1990 - 1996  
Health Care Financing Agency  
Technical Advisory Panel, Coronary Artery Bypass Graft Demonstration, 1988  
Agency Physicians Panel on Coronary Artery Bypass Surgery, 1987  
Cardiac Diagnostics Expert Validation Panel 1997  
National Institute of Neurological Disorders and Stroke  
Program Project Grant Review Committee-1990, 1991  
National Institutes of Health Study Section, Bioengineering and  
Cardiovascular Surgery, Ad Hoc Member 1993-1995  
Rand Corporation Coronary Artery Surgery Study, Panel Member  
1994-1995  
National Aeronautics and Space Administration  
NASA Advisory Council 1996-2000  
Life and Microgravity Sciences Advisory Committee 1997-2000, Chair-1999-2000  
Ad hoc committee on Patent Foramen Ovale and EVA, 1999  
US House of Representatives Commerce Committee -  
Consultant on Oversight of FDA, 1998  
Department of Health and Human Services-Women's Health Status Study-  
Consultant 1998.

Federal Bureau of Investigation and U.S. Attorney, Consultant 2003  
National Institutes of Health – NINDS  
    DSMB WARCEF – 2004 to 2012  
    DSMB ALISAH – 2008 to 2010  
    DSMB POINT – 2009 to present  
AHRQ Evidence-based Practice Center  
    Review of Technology Assessment: Practice Impact of Neurological Events upon Cognitive  
    Function following Cardiovascular Procedures – 2013  
Canadian Foundation for Innovation  
    Multidisciplinary Assessment Committee – 2015, 2017  
Association for the Advancement of Medical Instrumentation Cardiac Valve Prosthesis Committee  
    Voting Member 2014-present  
International Standards Organization, TC 150/SC 2 Working Group 1, Cardiac  
    Voting member 2014-present

### **Professional Organization Committees**

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Society of Thoracic Surgeons  
    Committee on Education and Resources, Member 1989-1993, Chairman 1992-1993  
    Postgraduate Education Committee, Member 1990-1994, Chairman 1993-1994  
    Continuing Medical Education Committee 1990-1995  
    Major Issues Committee, 1995-1998  
    Government Affairs Committee, FDA liaison - 1996-1999  
    Information Technology Committee- 1999- 2001  
    Ad Hoc Congressional liaison Committee 1997-1998  
    Key Public Relations Contact 1998-2001  
    Clinical Education Resource Group 2001-2003  
    Abstract Review Committee 2011  
    STS Perfusion Course Co-Director, 2011  
STS-AATS-Workforce on New Technology, 1998-2006  
American Association for Thoracic Surgery  
    Professional Affairs Committee, 1996-1998  
    Scientific Affairs and Government Relations committee- 2011-2014  
Western Thoracic Surgical Association Membership Committee- 1995-1996  
Joint Conference on Graduate Education in Thoracic Surgery - AATS, STS-1992  
Thoracic Surgery Foundation  
    Research Grant Committee - 1993-1999  
    Liaison to Board of Directors 1999-2001  
American Heart Association National Research Committee, (Anesthesia, Radiology, Surgery)  
    1994-2001  
American Heart Association Peer Review Research Committees  
    Southern California Chapter 1982-1984,  
    Washington 1989-90,  
    Nevada Chapter 1991-1993, vice chairman  
American Heart Association, Nevada Affiliate

Board of Directors, 1991-1992  
American Heart Association Scientific Sessions Abstract Committee - 1998-2001  
Association for Surgical Education  
Curriculum Committee, 1983  
Subcommittee on Cardiothoracic Objectives, 1983  
Cardiovascular Credentialing International Board of Trustees 1987-1991  
American College of Chest Physicians  
Program Committee - 1987-1992  
Original Investigations Committee - 1988  
Allied Health Committee Member 1988-1992  
Annual Scientific Program Committee -1990  
Awards Committee - 1990  
Public Policy Committee - 1995-1999  
Michael E. DeBakey International Cardiovascular Society  
Board of Directors - 1988 - 2004  
Cardiothoracic Research and Education Foundation  
Educational Advisory Board - 1983-1998  
Course Director-Pathophysiology of Cardiopulmonary Bypass 1998-2016  
17th World Congress of Diseases of the Chest  
Original Investigation Committee, 1991-1992  
University Health System Consortium  
CABG Clinical Benchmarking Liaison 1996-1998  
SESATS  
Critical Care Committee - 1997-2000  
Women in Thoracic Surgery  
Grants Award Committee- 1997 – 2000  
Medicine Meets Virtual Reality  
Program Committee, 2001-2017  
Valve Academic Research consortium  
member, 2008-2013  
Mitral Valve Academic Research consortium  
member, 2011-2013  
Perivalvular Leak Academic Research Consortium  
member organizing committee 2014 - 2016

### **Journal Editorial Positions**

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Foreign Editor - Journal of Pathology of Circulation and Cardiosurgery 1998-2004  
Assistant Editor - Perfusion 1998-2001  
Editorial Board - Annals of Thoracic Surgery, 1993-2001  
Editorial Board - Perspectives in Pulmonary Medicine, 1990-1993  
Editorial Board, Founding member - Heart Surgery Forum (Internet), 1996-2001  
Editorial Board - Journal of Pathology of Circulation and Cardiosurgery 1998-2004  
Editorial Advisory Board, Western Journal of Medicine, Clinical Investigation Section, 1990 - 1995

Editorial Board , ACCP Video Magazine, 1988  
Editorial Board, Founding Member – AATS Cardiothoracic Digest, 1999-2004  
Editorial Board, Journal of Cardiothoracic and Vascular Anesthesiology, 2007-2015  
Deputy Statistical Editor, Journal of Thoracic and Cardiovascular Surgery, 2014- present  
Editorial Board – Journal of Thoracic and Cardiovascular Surgery

Guest Reviewer:

Journal of the American College of Cardiology  
American Journal of Physiology  
Annals of Thoracic Surgery  
Magnetic Resonance in Medicine  
Circulation  
New England Journal of Medicine  
Chest  
Diagnostic and Therapeutic Endoscopy  
Journal of Thoracic and Cardiovascular Surgery

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**Peer Review**

Department of Defense Civilian Review of Cardiac Surgery, 1990-1996  
Nevada State Board of Medical Examiners, Consultant - 1992  
Nevada PRSO Peer Review Panel, 1992-1995  
Federal Bureau of Investigation, consultant on cardiac surgery, 2006

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**AWARDS**

UCLA Chemistry Department Distinguished Alumnus Award 2013  
UCLA Chemistry Department Honors in Chemistry – 1970  
UCLA Chemistry Department Special Award 1970  
Department of Veterans Affairs Commendation 1995  
San Diego Humane Society Volunteer Excellence Award - 2012  
NASA Decadal Planning Team Achievement Award 2001  
FDA CDRH Career Achievement Award – 2013  
FDA CDRH Special Recognition Award, Pivotal Clinical Study Design Guidance Working Group 2012  
FDA Excellence in Review Science, Heart Valve Team 2012  
FDA Group Recognition Award: Cardiopulmonary Bypass Working Group 2012

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**COMMUNITY SERVICE**

Southern Nevada Zoological Park - Medical Advisory Board 1991-1995 Board of Directors –  
1992-1995  
Jesuit Urban Service Team, Camden NJ, Board of Directors, 2001-2004  
St. Luke's Healthcare Center, Board of Trustees 2002-2004  
San Diego Humane Society Animal Rescue Reserve – 2006-2014

Animal Law Enforcement Academy – 2007  
Technical Rescue Team Leader – 2007- 2014  
Training Director- 2012-2014  
County Animal Response Team, County of San Diego Animal Services  
Member 2014-present  
Team leader – Technical Rescue 2014-present  
Forest Fire Lookout – Highpoint Tower, Palomar Mountain, San Diego  
Lookout 2012-2015  
Lookout Trainer 2013-2015

### Search and Rescue

Mid-Atlantic Dogs Search and Rescue Team, 2000 – 2003  
Virginia Dept. of Emergency Services  
Search and Rescue Field Team Member certification 2001  
Managing Search Operations certification 2001  
National Association of Search and Rescue, 2001-present  
SARTECH II certification 2001  
SARTECH III certification 2005  
SARTECH II evaluator 2005-present  
Canine SARTECH II area certification 2006  
SARTECH I certification 2007  
SARTECH I evaluator 2014-present  
California Rescue Dogs Association Search and Rescue Team  
2003-present  
Medical Committee member 2003-2005  
Policy Committee member 2006-2007  
Evaluations Committee member 2007-2012  
Certified Area Search 2004  
Certified Human Remains Detection 2004  
Certified Water Human Remains Detection- 2007  
Dog Operations Specialist 2007-present  
Dispatcher- 2007-2012  
San Diego County Sheriff's Department Search and Rescue Team 2002-4  
SAR Academy graduate – 2003  
Technical Rescue Specialist Certification- 2003  
Quad Riding Certification – 2003  
Trailing Certification - 2004  
Southwest Search Dogs  
Member/ Dog Team Leader – 2003 – present  
Certified Area Search 2004  
Certified Cadaver Search 2004  
Certified in Basic Urban Disaster 2005  
Certified Trailing 2006  
Certified Water Search 2007  
Search Dog Resources  
Member/Dog Team leader 2005-present



Certifications in Area, Trailing, Cadaver, Basic Urban Disaster, and Water  
Joshua Tree National Park Search and Rescue Team 2015-present  
National Search Dog Alliance- 2007 – present

### Publications

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1. Nicol M, **Swain JA**, Shum Y, Merin R, Chen R: Solvent stark effect and spectral shifts II. J Chem Physics 48:3587, 1968.
2. Vatner S, Marsh J, **Swain JA**: Effects of morphine on coronary and left ventricular dynamics in conscious dogs. J Clin Invest 55:207-217, 1975.
3. **Swain JA**, Heyndrickx C, Boettcher D, Vatner S: Prostaglandin control of the renal circulation in the unanesthetized dog and baboon. Am J Physiol 229:826-830, 1975.
4. Hanley H, **Swain JA**, Hartley C, Lewis R, Dunn F, Schwartz A: Effects of ionophore RO 2-2985 (X537A) on conscious dogs in experimentally induced hemorrhagic hypotension. Mortality, systemic pressure, renal and coronary blood flow. Am J Cardiol 1978:41:63-68.
5. Genth E, **Swain JA**, Hanley H, Lewis R, Schwartz A: Effect of dopamine and isoproterenol on the myocardial oxygen consumption in the dog. Verh Dtschr Ges Inn Med 84:748-749, 1978.
6. Wood J, Hanley H, Entman M, Hartley CJ, **Swain JA**, Schwartz A, etc.: Biochemical and morphologic correlates of acute experimental myocardial ischemia in the dog. IV. Energy mechanisms during very early ischemia. Cir Res 44:52-61, 1979.
7. Genth KR, Cole JS, **Swain JA**, Glaeser DH: Evaluation of Regional Wall Motion during myocardial ischemia using left ventricular cineangiography and ultrasonic crystals. Intensiv Medizin (Germany, West), 1980, 17(4): 196-200.
8. Peters RM, **Swain JA**: Management of the patient with emphysema, coronary artery disease, and lung cancer. Am J Surg 143:701-705, 1982.
9. **Swain JA**: Endocrine response to cardiopulmonary bypass. In Pathophysiology and Techniques of Cardiopulmonary Bypass, edited by JR Utley. Baltimore, Williams & Wilkins, 1982.
10. Utley JR, **Swain JA**: The heart. In The Scientific Management of Surgical Patients, edited by RM Peters, JR Benefield, EE Peacock. Boston, Little, Brown & Co., 1983.
11. **Swain JA**: Cardiopulmonary bypass in non-cardiac disease. In Pathophysiology and Techniques of Cardiopulmonary Bypass, Volume II, edited by JR Utley. Baltimore, Williams & Wilkins, 1983.

12. Utley JR, **Swain JA**, Higgins CB, Kashani IA: Pulmonary artery Partition: New method for correction of interrupted arch. J Thorac and Cardiovasc Surg 86:309-311, 1983.
13. **Swain JA**, White FN, Peters RM: The effect of pH on the hypothermic ventricular fibrillation threshold. J Thorac Cardiovasc Surg 87:445-451, 1984.
14. **Swain JA**: Hypothermia and cardiac surgery. In International Practice in Cardiothoracic Surgery, edited by Yang-Kai W. Beijing, China Academic Publishers, 1984.
15. Young SG, Gregoratos G, **Swain JA**, Joyo CI: Delayed postoperative cardiac tamponade mimicking severe tricuspid valve stenosis. Chest 85(6): 824-826, 1984.
16. **Swain JA**: Coronary artery disease and noncardiac surgery. In Pathophysiology and Techniques of Cardiopulmonary Bypass, Volume III, edited by JR Utley. Baltimore, Williams & Wilkins, 1984.
17. **Swain JA**: Acid-base status, hypothermia, and cardiac surgery. Perfusion 1:231-238, 1986.
18. **Swain JA**: Surgical Techniques In the Diagnosis of Pulmonary Disease. Clinics in Chest Medicine 8(1): 43-51, 1987.
19. **Swain JA**: Endocrine and metabolic responses to cardiopulmonary bypass. Can J Contemp Concepts Res Therapy 3(1): 1-6, July, 1987.
20. **Swain JA**: Hypothermia and Blood pH. Arch Intern Med 148:1643-1646, 1988.
21. Katz LA, **Swain JA**, Portman MA, Balaban RS: Intracellular pH and inorganic phosphate content of the heart *in vivo*: A 31P NMR Study. Am J Physiol 255:H189-196, 1988.
22. Katz LA, **Swain JA**, Portman MA, Balaban RS: The relation between phosphate metabolites and oxygen consumption of the heart *in vivo*. Am J Physiol 1989 Jan. 256 (1 Pt 2): H 265-274.
23. **Swain JA**, McDonald TO Jr., Robbins RC, Hampshire VA: Hemodynamics and metabolism during surface induced hypothermia in the dog: a comparison of pH management strategies. J Surg. Res 1990; 48(3):217-222.
24. Robbins, RC, Balaban RS, **Swain JA**: Asanguinous cerebral perfusion protects the brain during circulatory arrest: A 31P NMR study. J Thorac and Cardiovasc Surg 1990; 99(5):878-84.
25. Hennein H, **Swain JA**, McIntosh CL, Stone C, Bonow R, Clark RE: Comparative clinical assessment of mitral valve replacement with and without chordal preservation. J Thorac and Cardiovasc Surg 1990; 99(5):828-837.

26. Dirbas PM, **Swain JA**: Disseminated cutaneous herpes Zoster following cardiac surgery. J. Cardiovasc Surg (Torino) 1990 July-Aug; 31(4):531-2.
27. Hennein HA, **Swain JA**: Preoperative cardiac assessment. Current Topics in General Thoracic Surgery Volume 2, 1992.
28. **Swain JA**, Robbins RC, Balaban RS, McDonald TJ, Schneider B, Groom RC. The effect of cardiopulmonary bypass on brain and heart metabolism: A 31P NMR study. In Magn Reson Med 1990 Sept; 15(3): 446-455.
29. DePalma L, Yu M, McIntosh CL, **Swain JA**, Davey RJ: Changes in Lymphocyte subpopulation as a result of cardiopulmonary bypass: The effect of blood transfusion. J Thorac and Cardiovasc Surg 1991; 101(2):240-244.
30. Bartorelli AL, Leon MB, Almagor Y, Prevosti LG, **Swain JA**, McIntosh CL, Neville RF, House MD, Bonner RF: *In vivo* human atherosclerotic plaque recognition by laser-excited fluorescence spectroscopy. J Am Coll Cardiol 1991;17 (6 Suppl B): 160B-168B.
31. Maron BJ, Leon MB, **Swain JA**, Cannon RO, Pelliccia A: Prospective identification by two-dimensional echocardiography of anomalous origin of the left main coronary artery from right sinus of valsalva. Am J Cardiol 1991; 68(1):140-2.
32. **Swain JA**, McDonald TJ, Balaban RS, Robbins RC. Metabolism of the heart and brain during hypothermic cardiopulmonary bypass. Ann Thorac Surg 1991; 51(1):105-109.
33. Crittenden MD, Roberts CS, Rosa L, Vatsia SK, Katz D, Clark RE, **Swain JA**. Brain protection during circulatory arrest. Ann Thorac Surg 1991; 51: 942-947.
34. **Swain JA**, McDonald TJ, Robbins RC, Balaban RS: Relationship of cerebral and myocardial intracellular pH to blood pH during hypothermia. Am J Physiol 1991; 260 (5 Pt 2):H1640-4.
35. **Swain JA**, McDonald TJ, Griffith PK, Balaban RS, Clark RE, Ceckler, T : Low flow hypothermic cardiopulmonary bypass protects the brain. J Thorac Cardiovasc Surg 1991; 102:76-84.
36. Mendeloff EN, Liang IYS, **Swain JA**, Clark, RE. Thromboxane A2 receptor-specific blockade ameliorates global ischemic injury and prevents Heparin-Protamine reaction after hypothermic cardiopulmonary bypass. American College of Surgeons 1990 Surgical Forum Volume XLI:286-289.
37. Griffith PK, Siegman M, Balaban RS, Ceckler TL, Clark RE, **Swain JA**. Cerebral metabolism in the cyanotic animal: The effect of hypothermic cardiopulmonary bypass and circulatory arrest. American College of Surgeons 1990 Surgical Forum Volume XLI:208-210.

38. Siegman MG, Anderson RV, Balaban RS, Ceckler TL, Clark RE, **Swain JA**. Barbiturates impair cerebral metabolism during hypothermic circulatory arrest. *Ann Thorac Surg* 1992;54:1131-1136.
39. Anderson RV, Siegman MG, Balaban RS, Ceckler TL, **Swain JA**. Hyperglycemia exacerbates cerebral intracellular acidosis during hypothermic circulatory arrest and reperfusion. *Ann Thorac Surg* 1992;54:1126-1130.
40. Brown PS, Roberts CS, McIntosh CL, **Swain JA**, Clark RE. Relation between choice of prostheses and late outcome in double-valve replacement. *Ann Thorac Surg* 1993 Feb;55:631-40.
41. Brown PS, Roberts CS, McIntosh CL, **Swain JA**, Clark RE. Late results after triple valve replacement with various substitute valves. *Ann Thorac Surg* 1993; 55(2):502-8.
42. Butterworth JF, Utley JR, **Swain JA**. Endocrine, metabolic, and electrolyte responses to cardiopulmonary bypass. In *Principles and Practice. Cardiopulmonary Bypass: Williams & Wilkins, Baltimore, MD* 1993:291-322.
43. **Swain JA**. Surgical Management of Emphysema. *Pulmonary Perspectives* 1991;8(4).
44. **Swain JA**. Cardiac Surgery and The Brain (Editorial). *N Engl J Med* 1993, 329(15): 1119-20
45. **Swain JA**, Anderson RV, Siegman MG. Low flow Cardiopulmonary Bypass and Cerebral Protection: A Summary of Investigations. *Ann Thorac Surg* 1993 Dec;56 (6): 1490-1492.
46. Ryan TJ, **Swain JA**. Editorial: Cardiovascular Devices and the FDA. *Circulation* 1994 Apr;89(4):1903-4.
47. **Swain JA**. Acquired Disease of the Mitral Valve. *Glenn's Thoracic and Cardiovascular Surgery*, 6th Edition. 1994
48. **Swain JA**. Cerebroprotection: The role of cardiopulmonary bypass, hypothermia glucose, and barbiturates. *Brain Injury and Pediatric Cardiac Surgery*. Ed: RA Jonas, Butterworth, Heinemann, 1994.
50. **Swain JA**. Cerebral Evaluation with Nuclear Magnetic Resonance Spectroscopy. *Brain Injury and Pediatric Cardiac Surgery*. Ed: RA Jonas. Butterworth, Heinemann, 1994.
51. Mendeloff EN, Liang IY, **Swain JA**, Clark RE. Thromboxone A2 Receptor- Specific Antagonism in Hypothermic Cardiopulmonary Bypass. *Ann Thorac Surg* 1994;57:999-1006.
52. Braunwald E, Mark DB, Jones RH, Cheitlin MD, Fuster V, McCauley K, Edwards C, Green LA, Mushlin M, **Swain JA**, et al. Unstable angina: diagnosis and management. *Clinical Practice Guideline Number X, AHCPR Publication 94-0682, Rockville, MD: Agency for*

Health Care Policy and Research and the National Heart, Lung, and Blood Institute, Public Health Service, U.S. Department of Health and Human Services, March, 1994.

53. Albright JL, MacArthur RI, **Swain JA**, Tran AT, Little AG. Video Assisted Thoracic Surgery for Indeterminate Pulmonary Nodules. *Diagnostic and Therapeutic Endoscopy* 1994;1:25-28.
54. Little AG, **Swain JA**, Nino JJ, Prabhu RD, Schlacter MD, Barcia TC. Reduction Pneumonoplasty for Emphysema: Early Results. *Ann Surg* 1995;222:365-71.
55. **Swain JA**. Myasthenia Gravis. *Ann Thorac Surg*, 1995; 60:223-4.
56. **Swain JA**. Surgery for diffuse emphysema. In: *Management of End Stage Pulmonary Disease. Seminars in Respiratory and Critical Care Medicine*, 17: 1996.
57. Brenner M, Yusen R, McKenna R Jr, Sciarba F, Gelb AF, Fischel R, **Swain J**, Chen JC, Kafie F, Lefrak SS. Lung volume reduction surgery for emphysema. *Chest* 1996; 110(1):205-18.
58. **Swain JA**. Reimbursement Issues and New Technology in Cardiovascular Surgery. *Heart Surgery Forum*. (Internet) 1998; www.hsforum.com; 1(1).
59. Abraham VS, **Swain JA**. Cardiopulmonary Bypass and the Kidney. In: *Principles and Practice of Cardiopulmonary Bypass*. Williams & Wilkes, Baltimore MD. 1999 (in press).
60. Charash WE, Lodder RA, Moreno PR, Purushothaman KR, Vyalkov VA, **Swain JA**, O'Connor WN, Muller JE. Detection of Simulated Vulnerable Plaque Using a Novel Near Infrared Spectroscopy Catheter. *AHA National Meeting*. Nov 1999.
61. Cohn LH, Chitwood WR, Dralle JG, Emery RW, Esposito RA, Fonger JD, Heitmiller RF, Lytle B, Mack M, McBride LR, Reitz BA, Schaff H, Subramanian VA, Kaiser LR, Landreneau RJ, Lerut TE, Svennevig JL, **Swain JA**, Ulyot D. Course Guidelines for Minimally Invasive Cardiac Surgery. *J Thorac Cardiovasc Surg*, Nov 1998; 116(5):889-90.
62. Cohn LH, Chitwood WR, Dralle JG, Emery RW, Esposito RA, Fonger JD, Heitmiller RF, Kaiser LK, Landreneau RJ, Lerut TE, Lytle BW, Mack M, McBride LR, Reitz BA, Schaff HV, Subramanian VA, Svennevig JL, **Swain JA**, Ulyot DJ. Policy Statement: Minimally Invasive Coronary Artery Bypass Surgery. *J Thorac Cardiovasc Surg*, Nov 1998: 116(5):887-888.
63. **Swain JA**. How to Choose a Cardiac Surgeon. In: *The State of the Heart*, edited by LW Stephenson. White Stuff Publishing Co., Ft. Lauderdale, FL, 1999.
64. **Swain JA**, Hartz, R. Assessing Quality in Cardiac Surgery: Why This is Necessary in the 21<sup>st</sup> Century. *Perfusion*. 2000 Jun;15(3):181-90.

65. **Swain JA**, Flynn ET Jr, Greely WJ, Hallenbeck J, Liberthson RR. Patent Foramen Ovale and Extraventricular Activity. Report to NASA Office of Life and Microgravity Applications, November 1999.
66. Abraham VS, **Swain JA**, Forgash AJ, Williams BL, Musulin MM. Ischemic Preconditioning Protects Against Paraplegia after Transient Aortic Occlusion in the Rat. *Ann Thorac Surg* 2000;69:475-9
67. Zhang P, Abraham VS, Kraft KR, Rabchevsky AG, Scheff SW, **Swain JA**. Hyperthermic Preconditioning Protects Against Spinal Cord Ischemic Injury. *Ann Thorac Surg* 2000; 70(5):1490-5
68. Hartz RS, **Swain JA**, Mickleborough L. Sixty-year perspective on coronary artery bypass grafting in women. *J Thorac Cardiovasc Surg.* 2003 Sep;126(3):620-2.
69. Zuckerman BD, Sapirstein WY, **Swain JA**. The FDA Role in the Development of Percutaneous Heart Valve Technology. *EuroIntervention Supplements* (2006) 1 (Supplement A) A75-A78.
70. Zuckerman BD, Sapirstein WY, **Swain JA**. FDA perspective on clinical trial design for cardiovascular devices. *Ann Thorac Surg.* 2006 Sep;82(3):773-5.
71. Sapirstein W, Chen E, **Swain J**, Zuckerman B. US FDA perspective on regulatory issues affecting circulatory assist devices. *Expert Rev Med Devices.* 2006 Nov;3(6):749-53
73. Aguel F, Hillebrenner M, Stewart S, Swain JA, Hampshire V, Zuckerman B. US Regulatory Decisions for Heart Valves Implanted with Minimally Invasive Surgery. *Cardiovascular Engineering and Technology*, 2011: 2 (2):62–65

### **Book Reviews, Letters, Commentaries**

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1. **Swain JA**: Techniques in Cardiac Surgery. *Ann Thorac Surg*, June 1985, Book Review.
2. **Swain JA**: Atlas of Cardiac Surgery. *Ann Thorac Surg*, 39:520, 1985.
3. **Swain JA**: Letter to the Editor, "Hypothermia." *J Thorac Cardiovasc Surg* 85:147,1983.
4. **Swain JA**: Non-penetrating thoracic aortic trauma. *Trauma Update*, May 1982. UCSD Trauma Center Newsletter.
5. **Swain JA**: Pneumomediastinum. *Trauma Update*, September 1983. UCSD Trauma Center Newsletter.
6. **Swain JA**: Patient Care in Cardiac Surgery. *Ann Thorac Surg*, 43:31, 1987

7. **Swain JA**: Acid-base Regulation and Body Temperature. Ann Thorac Surg, 43:489, 1987.
8. **Swain JA**: Cardiopulmonary Bypass. Ann Thorac Surg, 44:349, 1987.
9. **Swain JA**: Preoperative Cardiac Assessment. Ann Thorac Surg 1990; 50, pg 986.
10. **Swain JA**: Letter to the Editor,"Arachidonic Acid Metabolism After Heparin Reversal with Protamine". Ann Thorac Surg 1995;59:544-51.
11. **Swain JA**: Invited Commentary: Warm Heart Surgery. Ann Thorac Surg, 1995.
12. **Swain JA**: Invited Commentary: Retrograde Cerebral Perfusion. Ann Thorac Surg, 1999;67:1096.
13. **Swain JA**: Invited Commentary: Cerebral Blood Flow and Oxygen Metabolism. Cardiothoracic Digest Review. May, 1999.
14. **Swain JA**: Invited Commentary: Effect of Surface Coating on Platelet Count Drop During Cardiopulmonary Bypass. Cardiothoracic Digest, August 1999.
15. **Swain JA**: Invited Commentary: Arteriovenous Carbon Dioxide Removal: Development and Impact on Ventilator Management and Survival During Severe Respiratory Failure. Cardiothoracic Digest. October, 1999.
16. **Swain JA**: Invited Commentary: Plasma Endotoxin Concentrations during Cardiac Surgery May be Related to Atherosclerosis. Cardiothoracic Digest. January, 2001.
17. **Swain JA**: Invited Commentary: Clinical Evaluation of Nine Hollow-Fibre Membrane Oxygenators. Cardiothoracic Digest. August, 2001.

### **Papers Presented and Invited Lectures (National and International)**

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1. Effects of morphine on coronary and left ventricular dynamics in conscious dogs. American Federation for Clinical Research, National Meeting, 1974.
2. Prostaglandin control of the renal circulation in the unanesthetized dog and baboon. American Heart Association, National Meeting, 1974.
3. Prolonged depression of regional myocardial function following transient ischemia in conscious dogs. American Heart Association, National Meeting, 1976.
4. Comparative effects of dopamine and isoproterenol on myocardial work and efficiency in conscious dogs. American Heart Association, National Meeting, 1976.

5. Myocardial function after transient ischemia. DeBakey International Cardiovascular Society, 1981.
6. Endocrine response to cardiopulmonary bypass. Pathophysiology and Techniques of Cardiopulmonary Bypass, Cardiothoracic Research and Education Foundation Symposium, February 1981, San Diego, CA.
7. The effect of pH on ventricular fibrillation threshold. Sampson Thoracic Surgical Society, 1982, San Diego, CA.
8. Cardiopulmonary bypass for non-cardiac disease. Pathophysiology and Techniques of Cardiopulmonary Bypass, Cardiothoracic Research and Education Foundation Symposium, February 1982, San Diego, CA.
9. Coronary artery disease and non-cardiac surgery. Cardiothoracic Research and Education Foundation Symposium, November 1982, San Diego, CA.
10. New concepts in hypothermia. Association for Academic Surgery, 16th Annual Meeting, November 9, 1982, San Diego, CA.
11. Hypothermia during cardiac surgery. Visiting Professor, Louisiana State University Medical Center, November 19, 1982, Shreveport, LA.
12. Prostaglandins and cardiopulmonary bypass. Pathophysiology and Techniques of Cardiopulmonary Bypass. Cardiothoracic Research and Education Foundation Symposium, February 1983, San Diego, CA.
13. Cardiopulmonary bypass techniques for non-cardiac surgery. Invited lecturer, American Society for Extracorporeal Circulation. March 12, 1983, Reno, NV.
14. Prostaglandins and cardiac surgery. Visiting Professor, Letterman General Army Hospital, April 21, 1983, San Francisco, CA.
15. New concepts in hypothermia. Visiting Professor, Case Western Reserve University, December 17, 1983, Cleveland, OH.
16. Acid-base balance and cardiopulmonary bypass. Pathophysiology and Techniques of Cardiopulmonary Bypass, Cardiothoracic Research and Education Foundation Symposium, February 1984, San Diego, CA.
17. Physiological aspects of hypothermic cardiopulmonary bypass. Invited lecturer, American Society for Extracorporeal Circulation, National Meeting, August 25, 1984, Boston, MA.
18. Acid-Base balance and cardiopulmonary bypass. Bentley Corporation Cardiac Surgery Symposium, October 18, 1984, Irvine, CA.



19. Hemodynamic management of cardiac surgery patients. LSU Medical School, Post-graduate course. October 29, 1984, Shreveport, LA
20. Thoracic Surgery and Cystic Fibrosis Patients. National Cystic Fibrosis Symposium, December 8, 1984.
21. The Role of Calcium Channel Blockers in Cardiopulmonary Bypass. Pathophysiology And Techniques of Cardiopulmonary Bypass, Cardiothoracic Research and Education Foundation Symposium, February 1985, San Diego, CA.
22. Pulmonary abnormalities during cardiopulmonary bypass. Pathophysiology and Techniques of Cardiopulmonary Bypass. Cardiothoracic Research and Education Foundation Symposium, February 1986, San Diego, CA.
23. Endocrine Effects of Cardiopulmonary Bypass. Pathophysiology and Techniques of Cardiopulmonary Bypass, Cardiothoracic Research and Education Foundation Symposium, February 1986, San Diego, CA.
25. Hypothermia and Cardiopulmonary Bypass. Visiting Professor, Walter Reed Army Medical Center, November, 1986.
26. Electrophysiology and Cardiopulmonary Bypass. Pathophysiology and Techniques of Cardiopulmonary Bypass. Cardiothoracic Research and Education Foundation Symposium, February 1987, San Diego, CA.
27. Nuclear Magnetic Resonance Spectroscopy and Cardiac Surgery. Pathophysiology and Techniques of Cardiopulmonary Bypass, Cardiothoracic Research and Education Foundation Symposium, February 1988, San Diego, CA.
28. NMR and Cardiac Surgery. Michael E. DeBakey International Cardiovascular Society, April 1988, Houston, TX.
29. Hypothermia and Cardiac Surgery Symposium Honoring Dr. Fred White, University of California, June 1988, San Diego, CA.
30. Endocrine Aspects of Cardiopulmonary Bypass. ACCP National Meeting, October 1988, Anaheim, CA.
31. Cardiopulmonary Bypass and NMR. Devices and Technology Branch Contractors meeting, NHLBI, December 1988.
32. Perioperative Myocardial Metabolism, Pathophysiology and Techniques of Cardiopulmonary Bypass. Cardiothoracic Research and Education Foundation Symposium, February 1989, San Diego, CA.

33. From the Chemistry Lab to the Operating Room. UCLA Chemistry Department Symposium, March, 1989, Los Angeles, CA.
34. Update on Cardioplegia. Seventh Annual USUHS Cardiothoracic Surgery Symposium, June, 1989, Bethesda, MD.
35. Brain protection during cardiopulmonary bypass. Cardiothoracic Research and Education Foundation Symposium, March 1990, San Diego, CA
36. Acid-base status and cardiopulmonary bypass. ASAIO National Meeting, April, 1990, Washington D.C.
37. Low flow cardiopulmonary bypass protects the brain. American Association of Thoracic Surgery, May 1990, Toronto, Canada.
38. Cerebral protection during circulatory arrest. Cardiopulmonary bypass course, Oct. 1990, Atlantic City, NJ.
39. Flow rate and cerebral protection. Cardiothoracic Research and Education Foundation Symposium, February 1990, San Diego, CA.
40. Brain Metabolism and Low Flow. Cardiothoracic Research and Education Foundation Symposium, February 1991, San Diego, CA.
41. Aortic Transection. American College of Chest Physicians, General Thoracic Surgery Symposium, April 1991, Las Vegas, NV.
42. The Brain and Cardiac Surgery. St. Mary's Regional Medical Center, Seminar on Heart Disease, October, 1991, Reno, NV.
43. Adult ECMO. American College of Chest Physicians, November 1991, San Francisco, CA.
44. Aortic Dissection. American College of Chest Physicians, November 1991, San Francisco, CA.
45. Hypothermia. Cardiothoracic Research and Education Foundation Symposium, February 1992, San Diego, CA.
46. Trends in Cardiovascular Surgery. SENMED Medical Ventures, February 1992, Steamboat Springs, CO.
47. Malignant Mesothelioma. American College of Chest Physicians, General Thoracic Surgery Symposium, April 1992, Las Vegas, NV.
48. Myasthenia Gravis. American College of Chest Physicians, General Thoracic Surgery Symposium, April 1992, Las Vegas, NV.

49. Preoperative Evaluation. American College of Chest Physicians, General Thoracic Surgery Symposium, April 1992, Las Vegas, NV.
50. Cerebral Ischemia. Michael DeBakey International Surgical Society, June 1992, Frankfurt, Germany.
51. Coronary Bypass and The Surgical Risk For Women. American Heart Association Symposium, September 1992, Las Vegas, NV.
52. Brain Protection. Cardiothoracic Research and Education Foundation Symposium, February 1993, San Diego, CA.
53. Low Flow Cardiopulmonary Bypass and Brain Protection. University of London Symposium on The Neurohumoral Effects of Profound Hypothermia in Infant Heart Surgery, March 1993, London.
54. Cerebral Protection. Society of Cardiovascular Anesthesiologists Annual Meeting, April 1993, San Diego, CA.
55. Coronary Bypass In The Pulmonary Cripple. Coronary Artery Surgery Course, Society of Thoracic Surgeons, June 1993, Duke University, Durham, NC.
56. Risk Stratification In Coronary Artery Surgery. Coronary Artery Surgery Course, Society of Thoracic Surgery, June 1993, Duke University, Durham, NC.
57. Brain Protection. Coronary Artery Surgery Course, Society of Thoracic Surgery, June 1993, Duke University, Durham, NC.
58. Emergency Coronary Artery Bypass After PTCA. Coronary Artery Surgery Course, Society of Thoracic Surgery, June 1993, Duke University, Durham, NC.
59. Heart Valve Device Regulation. FDA Workshop on Cardiovascular Devices. June, 1993.
60. Brain Protection and Circulatory Arrest. Visiting Professor, UCLA Division of Cardiovascular Surgery Conference, June 1993, Los Angeles, CA.
61. Cardiopulmonary Bypass For Non-Cardiac Surgery. UCLA Department of Surgery Grand Rounds, June 1993, Los Angeles, CA.
62. Nuclear Magnetic Resonance Spectroscopy. Symposium: Brain Injury and Pediatric Cardiac Surgery, Harvard Medical School, October 1993, Cambridge, MA.
63. Cerebroplegia. Symposium: Brain Injury and Pediatric Cardiac Surgery. Harvard Medical School, October 1993, Cambridge, MA.

64. New Methods of Brain Protection. Symposium: Brain Injury and Pediatric Cardiac Surgery. Harvard Medical School, October 1993, Cambridge, MA.
65. The Brain and Cardiac Surgery. Frederick Collier Surgical Society, 39th Annual Meeting, October 1993, Las Vegas, NV.
66. Circulatory Arrest and Pediatric Cardiac Surgery. Visiting Professor, Texas Heart Institute, December 1993, Houston, TX.
67. Risk Stratification in Cardiac Surgery. Cardiopulmonary Bypass Symposium, Feb. 1994.
68. Future Trends in Cardiac, Vascular, and Thoracic Surgery. SENMED Corporate Annual Meeting, February 1995, Breckenridge, CO.
69. Cerebral Protection. Pathophysiology of Cardiopulmonary Bypass Meeting, January 1995, San Diego, CA.
70. Brain Protection. Visiting Professor, Tufts University School of Medicine, April 1995, Boston, MA.
71. Cerebroplegia. Invited lecture. Society of Cardiovascular Anesthesiologists National Meeting, May 1995, Philadelphia, PA.
72. Lung Volume Reduction Surgery. Invited lecture. American Thoracic Society, National Meeting, May 1995, Seattle, WA.
73. Cerebral Protection during Cardiopulmonary Bypass. Invited lecture. Sixth European Congress on Extracorporeal Circulation Technology, June 1995, Waterloo, Belgium.
74. Surgery for Pulmonary Emphysema. Invited presentation. Western Thoracic Surgical Association National Meeting, June, 1995, Coeur d'Alene, ID.
75. Gender Issues Relating to Medical Devices. Invited Lecture. Food and Drug Administration Symposium on Gender Issues and Research Studies, November, 1995, Washington, D.C.
76. Emphysema Surgery. Visiting Professor, Ohio State University Annual Pulmonary Symposium, February, 1996, Columbus, OH
77. Cerebroplegia. American Association for Thoracic Surgery Symposium, April, 1996, San Diego, CA.
78. The Brain and Cardiopulmonary Bypass. Society of Cardiovascular Anesthesiologists, May, 1996, Salt Lake City, UT.
79. Cerebral protection and aortic surgery. International Symposium on Brain Protection. Osaka, Japan. Sept. 1996.

80. Invited Discussant: "Postischemic Temperature", American Association for Thoracic Surgery, National Meeting, Boston, MA, 1998.
81. Lung Volume Reduction Surgery. European Respiratory Society Meeting. September, 1997, Berlin, Germany.
82. Video assisted Thoracic Surgery. European Respiratory Society Meeting. September, 1997, Berlin, Germany.
83. Biochemistry and Pathophysiology of Brain Protection. International Symposium on congenital and Adult Cardiosurgery. November, 1997, Novosibirsk, Russia.
84. Minimally invasive cardiac surgery. International Symposium on congenital and Adult Cardiosurgery. November, 1997, Novosibirsk, Russia.
85. Hypothermia in Cardiac Surgery. International Symposium on Congenital and Adult Cardiosurgery. November, 1997, Novosibirsk, Russia.
86. The Future of Cardiac Surgery. Vanguard Venture Capital Partners meeting. December, 1997, New Orleans.
87. Reimbursement Issues and New Technology in Cardiovascular Surgery. New ERA Minimally Invasive Cardiac Surgery. January 1998, Palm Springs, California.
88. Brain Protection 1998. Pathophysiology of Cardiopulmonary Bypass Meeting. March, 1998, San Diego, California.
89. Nuts and Bolts of Brain Protection. Society of Cardiovascular Anesthesiologists Meeting. Snowbird, Utah, March, 1998.
90. From the Cell to the OR. Society of Cardiovascular Anesthesiologists Meeting, March, 1998.
92. Minimally Invasive Cardiac Surgery. Cardiovascular Symposium, Appalachian Regional Healthcare Corporation. Whitesburg, Ky. July 1998.
93. Invited Discussant: The Influence of CPB Perfusion Temperature, Society of Thoracic Surgeons National Meeting, San Antonio, TX, January 1999.
94. Quality Assessment in Cardiac Surgery. Pathophysiology & Techniques of Cardiopulmonary Bypass. San Diego, CA, February 1999.
95. A Rat Model of Perfusionless Deep Hypothermic Circulatory Arrest. Pathophysiology & Techniques of Cardiopulmonary Bypass, San Diego, CA, February 1999.

96. Brain Protection During Cardiac Surgery: From Rats to Russians. Surgical Grand Rounds, University of Mississippi, Jackson, MS, June 1999.
97. Understanding “Quality” in Cardiac Surgery. Dept. of Internal Medicine Grand Rounds, University of Kentucky, Lexington, KY, September, 1999.
98. Neuroprotection and Cardiovascular Surgery. ACCP Symposium. Update in Cardiac and General Vascular Surgery. December, 1999. St. Thomas, U.S. Virgin Islands.
99. Radiation Protection of Astronauts. Presentation to the NASA Administrator. NASA Headquarters, October, 2000.
100. Reorganization of Biology at NASA. National Research Council; Space Studies Board. November, 2000, Univ. Calif. at Irvine.
101. Research on the International Space Station. National Research Council; Space Studies Board. November, 2000, Univ. Calif. at Irvine.
102. NASA Technology. CIMIT (Center for Innovative Technology), Massachusetts General Hospital. November, 2000
103. Research at NASA. Case Western University Medical School, Cleveland, OH, December, 2000.
104. Astronauts and Surgeons: Challenges of the Space Environment. Medicine Meets Virtual Reality Conference. Newport Beach, Calif. January, 2001.
105. Brain and Spinal Cord Protection in Cardiac Surgery. Pathophysiology of Cardiopulmonary Bypass, San Diego, February, 2001
106. Challenges of Medical Care in Space. Anesthesia Grand Rounds. Univ. Pennsylvania, March 2001.
107. Technology Needs for Exploration. Goddard Memorial Symposium, March, 2001.
108. Life in Space. San Jose Tech Museum Explorers Lecture series. April, 2001.
109. Radiation Protection for Astronauts: The Tallest Pole. NOAA Space Weather Symposium, 2001. May, Boulder, CO.
110. Biomedical Research at NASA. Visiting Professor, Dept. of Medicine, University of Mississippi Medical Center, Jackson, June, 2001.
111. Fundamental Biology Research on the ISS. Microgravity workshop. Brazilian Academy of Sciences, July, 2001, Rio de Janeiro.

112. NASA and Medical Technology. Department of Surgery Grand Rounds, Massachusetts General Hospital. September, 2001, Boston.
113. Biomedical Research – Future Concepts. Visiting Professor, Surgery Grand Rounds, State University of New York. October, 2001, Syracuse
114. Advanced Telemedicine. Digital Summit, University at Buffalo (SUNY), November, 2001, Buffalo.
115. Brain Protection and Cardiac Surgery; NASA Biomedical Research. Keynote address, Graduate Student Symposium, Temple University School of Medicine. November, 2001, Philadelphia.
116. The Role of the FDA in NASA Biomedical Technology. FDA Staff College. January, 2002, Washington.
117. Post-Event Hypothermia. Pathophysiology of Cardiopulmonary Bypass, San Diego February, 2002
118. What Have We Learned about Brain Protection in the Last Decade? American Society of Extracorporeal Technology, Jackson Hole, October, 2002
119. The FDA and Cardiovascular Devices. NewEra Cardiac Care Conference. Laguna Niguel, Calif., Jan 2003.
120. The FDA and Devices for Heart Failure. American Heart Assoc., San Diego Chapter, April 2003
121. Women and Cardiovascular Device Trials. USC Symposium on Women and Cardiovascular Disease, Laguna Niguel, Calif, June 2003
122. Clinical Perspectives on Patient Selection and Endpoints for Heart Failure Trials. Trans Catheter Therapeutics meeting, Washington DC, September, 2003.
123. Clinical Trials for AMI Devices: Design, Endpoints, and Surrogate Markers. Trans Catheter Therapeutics meeting, Washington DC, September, 2003.
124. Septal Defect and Left Atrial Appendage Closure Devices: Recent Experiences and Perspectives on Pathways for Regulatory Approval. Trans Catheter Therapeutics meeting, Washington DC, September, 2003.
125. Percutaneous Valve Replacement and Implantable Devices for Valve Repair. Trans Catheter Therapeutics meeting, Washington DC, September, 2003.
126. Medical Device Development: From Research to FDA Approval. NewEra Cardiac Care: Innovation & Technology. Dana Point, California, January, 2004

127. What's on the Horizon: Percutaneous Valves. Pathophysiology and Techniques of Cardiopulmonary Bypass, San Diego, March, 2004.
128. Regulatory Strategy for Acute Myocardial Infarction Devices. Trans Catheter Therapeutics meeting, Washington DC, Sept. 2004.
129. Regulatory Strategy for Percutaneous Aortic and Mitral Valve Technologies. Trans Catheter Therapeutics meeting, Washington DC, Sept. 2004.
130. What's New in Heart Failure Devices. NewEra Cardiac Care, Laguna Niguel, CA, Jan 2005.
131. Clinical Trial Design for the Medical Professional: Lessons Learned. Technology Innovation Forum 2005, BIOCUM/CONNECT. La Jolla, CA, Feb. 2005.
132. Clinical Trial Design for Percutaneous Valves. Cardiovascular Revascularization Therapies, Washington DC, March 2005
133. Medical Device Regulation and Its Impact on Resuscitation Research. Eighth Wolf Creek Conference, Rancho Mirage, June 2005.
134. FDA Regulatory Considerations for Transcatheter Valve Therapies: Device Testing Standards, Pre-Clinical Studies and Clinical Trial Requirements. AATS Postgraduate Course, Chicago, Sept 2005.
135. How to Design Clinical Trials: Lessons Learned. NewEra Cardiac Surgery Symposium, Newport Beach, January 2006.
136. Use of Left Ventricular Assist Devices in Less-Sick Populations. FDA-HFSA Symposium, Rockville, MD, March 2006.
137. Percutaneous Valves – FDA View. CRT 2006, Washington DC, April 2006.
138. Historical Controls and Non-Randomized Registries in Heart Valves: FDA View. CRT 2006, Washington DC, April 2006.
139. The Chronic Response to Disasters: Lessons Learned from Hurricanes Katrina and Rita. Palomar Hospital Disaster Medicine Conference, Escondido, California, April 18, 2006.
140. Percutaneous Heart Valve Clinical Trial Design. Transcatheter Valve Symposium 2006. San Francisco, California, May 2006.
141. Clinical Trial Design for Transcatheter Devices. Transcatheter Devices Symposium, Cleveland Clinic Foundation. Cleveland, May 2006
142. Clinical Trial Design for Percutaneous Heart Valves. TCT 2006. Washington DC, Oct. 2006



143. Risk Assessment in Cardiac Surgery. TCT 2006. Washington DC, Oct. 2006
144. Clinical Trial Design for Chronic Angina Studies. Duke Clinical Research Institute Workshop, Washington DC, December 2006.
145. Percutaneous Aortic Valves: FDA Perspective. CRT 2007, Washington DC, March 2006.
146. Trial Design Considerations: Percutaneous Devices for Aortic Stenosis in the “High Risk” Patient. Valve Summit, TCT, Washington DC, October 2007
147. Trial Design Considerations: Percutaneous Devices to Treat Mitral Regurgitation. Valve Summit, TCT, Washington DC, October 2007
148. Regulatory Pathways for Percutaneous Mitral Valve Repair. HHS TownHall, TCT, Washington DC, October 2007.
149. The Science of Medical Trial Design. Society of Thoracic Surgeons Annual Meeting. January, 2008, Ft. Lauderdale.
150. Cognitive Assessment in FDA Cardiovascular Device Clinical Trials. American Psychological Association meeting. February 2008. Waikoloa, Hawaii.
151. Clinical Trial Designs and Regulatory Considerations for Transcatheter Valve Therapy. Transcatheter Valve Therapies symposium. Seattle. June 8, 2008
152. Changing Clinical Trial and Regulatory Pathways: The Evolving Science of Clinical Trial Design. Transcatheter Therapy. Washington, Oct. 19, 2008.
153. How to Design Device Studies: The FDA Perspective. Society of Thoracic Surgeons Annual Meeting, San Francisco, Jan. 24, 2009.
154. FDA Regulatory Considerations from Bench to Bedside: Percutaneous Heart Valves & LVADs. International Society for Cardiovascular Translational Research. San Diego, February, 2009.
155. Clinical Trial Design for Percutaneous Heart Valves. American Assoc. of Thoracic Surgeons/American College of Cardiology Valve Summit. Chicago, Sept., 2009.
156. Post-Event Hypothermia: A treatment in need of good data. Transcatheter Therapeutics Symposium, San Francisco, Sept. 25, 2009.
157. Medical Device Approval in the United States. Department of Surgery, National University Health System. Singapore, Dec. 29, 2009.

158. Considerations for Clinical Trial Design for Percutaneous Heart Valves. Annual meetings of the Heart Valve Society of America and Society of Heart Valve Disease. New York. April 15, 2010
159. What's New in Cardiovascular Devices. Center for Medicare and Medicaid, Baltimore, Aug 26, 2010.
160. Trading Off Safety vs. Efficacy: The Ultimate Regulatory Challenge. TCT 2010. Washington DC, Sept 24, 2010
163. Percutaneous Heart Valves: Trials and Tribulations. ACC/AATS Heart Valve Summit. Chicago, Oct. 8, 2010.
164. Balancing Safety and Effectiveness : The Regulatory Challenge of Transcatheter Valves. STS Transcatheter Valve Symposium. San Diego, Mar. 4, 2011.
165. FDA: Help or Hindrance. AATS Mitral Valve Enclave. New York, May 2011.
166. Where is the FDA Heading with New Device Approval: Transcatheter Valves. Controversies and Advances in the Treatment of Cardiovascular Disease. Beverly Hills, CA Oct. 14, 2011
167. Larry King Panel: The Challenging Pathway for Innovation in America. Controversies and Advances in the Treatment of Cardiovascular Disease. Beverly Hills, CA Oct. 14, 2011
168. Issues in Clinical Trial Design for Transcatheter Heart Valves. Valves in the Heart of the Big Apple. Heart Valve Society of America. New York. April 13, 2012.
- 169: From Bench to Bedside; How Medical Devices Find Their Way to the Operating Room. 2013 AATS Mitral Conclave. New York. May 3, 2013
- 170: Who are the Patients and What are the Endpoints. 2013 AATS Mitral Conclave. New York. May 3, 2013
- 171: UCLA Department of Chemistry Commencement Address. Los Angeles, June 13, 2013
- 172: Transcatheter Aortic Valves: Safety and Effectiveness. 2014 Valves in the Heart of the Big Apple. New York. May, 2014
173. The Brain and Cardiac Surgery. China Heart Association, Beijing, China, August 2014
174. Perfusion Considerations for Minimally Invasive Cardiac Surgery. China Heart Association, Beijing, China, August 2014
175. Blood Use in Cardiac Surgery. Fuwei Hospital Rounds, Beijing China, August 2014.