CURRICULUM VITAE THOMAS KEITH FEHRING, M.D.

BUSINESS	Charlotte, N	ve., Suite 200A
ADDRESS:	(704) 323-23	forth Carolina 28207
CERTIFIED:	American Board of Orthopaedic Surgeons, July 1988	
RECERTIFIED:	American Board of Orthopaedic Surgeons 2018	
LICENSURE:	North Carol	ina (29835), Issued 01/18/1986
EDUCATION:	1971-76 09/1976-06/1980 07/1980-07/1981 07/1981-07/1985 1984-85 07/85-01/1986	 Wake Forest University, Winston-Salem, North Carolina (B.S cum laude) University of Texas Medical Branch at Galveston, Texas (M.D.) Vanderbilt University Medical Center, Nashville, Tennessee (General Surgery Internship) Vanderbilt University Medical Center, Nashville, Tennessee (Orthopaedic Residency) Vanderbilt University Medical Center, Nashville, Tennessee (Chief Resident in Orthopaedics) New England Baptist Hospital, Boston, Massachusetts (Fellowship in Adult Reconstructive Surgery)

WORK HISTORY: 2/1/86 to Present OrthoCarolina Charlotte, North Carolina

CURRENT PRACTICE: Co-Director of OrthoCarolina Hip and Knee Center

Co-Director, OrthoCarolina Charitable Foundation

Director, Adult Reconstructive Surgery Fellowship 1996-2012 OrthoCarolina, P.A.

Co-Director, Adult Reconstructive Surgery Fellowship 2012-2013 OrthoCarolina, P.A.

Medical Director, Presbyterian-Orthopaedic Hospital 2000-present

Director, Transitional Care Unit, Presbyterian Orthopaedic Hospital 2000-2017

MEDICAL

Curriculum Vitae Thomas K. Fehring, M.I Page 2	D.
MISSION TRIPS:	Dominican Republic-2005 Nicaragua- 2008, 2010, 2011 Cuba - 2017
HOSPITAL AFFILIATION:	Novant Health Charlotte Orthopaedic Hospital Novant Health Presbyterian Medical Center Atrium Mercy Hospital
PROFESSIONAL ORGANIZATIONS:	American Academy of Orthopaedic Surgeons The Knee Society The Hip Society Twentieth Century Orthopaedic Association American Association of Hip and Knee Surgeons (founding member)
COMMITTEES:	Board of Directors, The Hip Society, 2012-2015
	Board of Directors, American Association of Hip and Knee Surgeons, 2009-2015
	Board of Directors, The Knee Society, 2009-2016
	Member, American Academy of Orthopaedic Surgeons' Board of Specialty Societies, 2012
	Nominating Committee, Knee Society, 2009-2010
	Nominating Committee, AAHKS 2014
	Membership Committee, Hip Society, 2009-2011
	Membership Committee, American Associaton of Hip and Knee Surgeons, 2009-2011
	Program Committee, American Association of Hip and Knee Surgeons, 2006-2009
	Membership Committee, Knee Society, 2006-2008
	Research Committee, American Association of Hip and Knee Surgeons, 2005
	Health Policy Committee, American Assocation of Hip and Knee Surgeons, 2004-2007
	Board of Directors, American Association Hip and Knee Surgeons, 2004-2005
	Leadership Development Committee, American Orthopaedic Association 2003

Curriculum Vitae Thomas K. Fehring, M.D.).
Page 3	Board of Directors, Knee Society, 2003-2005
	 American Association of Hip and Knee Surgeons Nominating Committee, 1993 Learning Center Committee, 1993/1994/1995
	Executive Committee, Department of Orthopaedics, Carolinas Medical Center, 1988-1996
	Executive Committee, North Carolina Orthopaedic Association, 1989-1991
	Board of Directors, Presbyterian-Orthopaedic Hospital, 1990-1994
	Member, Committee on CPT Coding, American Academy of Orthopaedic Surgeons, 1993-94
PATENTS:	United States Patent, US2007080796, "Mobile/Fixed Prosthetic Knee Systems", Fehring et al Date of patent: September 10, 2007.
	United States Patent, US 6,773,520 B1, "Enhanced Biocompatible Implants and Alloys, Fehring, et al. Date of patent: August 10, 2004.
	United States Patent, US 6,539,607 B1, "Enhanced Biocompatible Implants and Alloys", Fehring, et al. Date of patient: April 1, 2003.
	United States Patent, US 6,187,045B1, "Enhanced Biocompatible Implants and Alloys", Fehring et al. Date of patent: February 13, 2001
POSITIONS HELD:	President, The Knee Society, 2014-2015 President, American Association of Hip and Knee Surgeons, 2013-2014 Medical Director, Presbyterian-Orthopaedic Hospital, Charlotte, NC, 2013-present Chairman, Orthopaedics Department, Presbyterian Healthcare , Charlotte, NC, 2010-2012 Presbyterian Medical Executive Committee, Charlotte, NC, 2010 Chairman Orthopaedics, Southern Piedmont Regional Medical Board, Presbyterian Healthcare, 2010 Treasurer, Knee Society, 2009 Program Chairman, American Association of Hip and Knee Surgeons, 2008 Chairman, Education Committee, American Association of Hip and Knee Surgeons, 2006-2008 Adjuct Professor of Mechanical Engineering, University of North Carolina at at Charlotte, 2003-2008 Member at Large, The Knee Society 2003-2005 Vice President, North Carolina Orthopaedic Association, 1990-1991 Chairman, Arthritis Foundation of Charlotte, North Carolina, Southwest Branch, 1991 Director of Resident Education, Presbyterian-Orthopaedic Hospital, 1990-1996 Director of Resident Research, Carolinas Medical Center, 1990-1996

COMMUNITY SERVICE:	Founder and Co-Director, OrthoCarolina Charitable Foundation – 2009-present Physicians Impact Fund Advisory Council - 2010 Board of Directors, Heineman Medical Research, Inc 2009-2016 Founder, Doc Martin Sports Medicine Enhancement Fund, Wake Forest University Board of Directors, Joint Access Fund, Charlotte - 2000 Board of Advisors, B.I.K.E.S, Charlotte - 2007 Volunteer, Physicians Shelter Medical Clinic, Charlotte – 1990-2005		
REVIEWER:	Journal of Bone and Joint Surgery, 2003-present Clinical Orthopaedics and Related Research, 2003-present Journal of Arthroplasty, 2003-present		
EDITOR:	North American Associate Editor, Clinical Orthopaedic and Related Research, 2015-present		
	Current Opinion in Orthopedics, Vol 13 (1), "Knee Reconstruction", Lippincott, Williams and Wilkins, February 2002.		
	Current Opinion in Orthopedics, Vol. 12 (1), "Knee Reconstruction", Lippincott, Williams and Wilkins, February 2001.		
PROGRAM CHAIRMAN:	2011 ICJR Spring Hip and Knee Course, Kiawah Island, SC, April 15-17, 2011 (co-chairman)		
	2010 ICJR Spring Hip and Knee Course, Kiawah Island, SC, April 16-18, 2010 (co-chairman)		
	Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 7-9, 2008.		
	Technological Advances in Revision Surgery, Pinehurst, NC, September 13-16, 2007 (chairman)		
	Advances in Orthopaedic Surgery. Treatment Options in Reconstructive Surgery, Vail, Colorado, March 12-16, 2003 (co-chairman)		
	2001 Orthopaedic Learning Center Course: Hip Reconstruction, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, November 29-December 1, 2001 (chairman)		
	Masters Series Revision Course, AAOS Orthopaedic Learning Center, April 26-28, 2001 (co-chairman)		
	2000 Orthopaedic Learning Center Course: Hip Reconstruction, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, November 30-December 2, 2000. (co-chairman)		

Charlotte Knee Symposium, Charlotte, North Carolina, April, 1999. Charlotte Hip Symposium, Charlotte, North Carolina, April, 1997 Controversies and Clinical Management in Hip and Knee Reconstruction, Vail, Colorado, March, 1997 Charlotte Knee Symposium, Charlotte, North Carolina, April 1995. Controversies in Hip and Knee Arthroplasty: The Homestead Course Hot Springs, Virginia, September 1994. Charlotte Hip Symposium, Charlotte, North Carolina, April 1994 Charlotte Knee Symposium, Charlotte, North Carolina, April 1993 Charlotte Hip Symposium, Charlotte, North Carolina, May 1992 North Carolina Orthopaedic Association, Wilmington, North Carolina, September, 1991. Orthopaedic Considerations for the Hip & Knee: The Williamsburg Course, Williamsburg, Virginia, May, 1991 Charlotte Knee Symposium, Charlotte, North Carolina, April, 1991 Charlotte Hip Symposium, Charlotte, North Carolina, April, 1990 **HONORS/AWARDS:** Charlotte Business Journal "Best Doctors in America List" Charlotte Magazine Top Doctor List Becker's Orthopedic Review "Knee Surgeons You Shoud Know" The Charlotte Business Journal "Best Doctors in America List" List of Top Doctors for 2015 published in "Business North Carolina" magazine Achievement Award presented by the American Association of Orthopaedic Surgeons, 2013. 2011 AAHKS Poster award for poster entitled "Efficacy of Perioperative Irrigation and Debridement for Prosthetic Infection" Physician of the Year, Presented by OrthoCarolina, October, 2011. John Insall Award for outstanding paper, "Control-Matched Evaluation of Patellar

Crepitus After Total Knee Arthroplasty. Presented by The Knee Society, 2010.

Chitranjan Ranawat award for outstanding paper, "Fate of Two-Stage Reimplantation After Failed Irrigation and Debridement for Periprosthetic Knee Infection. Presented by The Knee Society, 2010.

Physician of the Year, Presbyterian-Orthopaedic Hospital, 2010

James A. Rand, MD Young Investigators Award for most outstanding paper in the area of arthroplasty research, "Success of Modern Cementless Femoral Components in Young Patients: A Systematic Review and Meta-analysis of Total Hip Arthroplasty and Hip Resurfacing. Do the Results Justify Hip Resurfacing?". Presented by the American Association of Hip and Knee Surgeons, 2008.

Mark Coventry Award for outstanding paper, "Polyethylene Sterilization and Wear-Related Failures with PFC Total Knees", presented by The Knee Society, 2006.

Mark Coventry Award for outstanding paper, "Factors Influencing Wear and Osteolysis in PFC Modular Total Knees", presented by The Knee Society, 2003.

Chitranjan Ranawat Award for outstanding paper, "A Comparison of Articulating vs. Static Spacers in Revision Total Knee Arthroplasty for Sepsis", presented by The Knee Society, 2000.

Mu Delta - Honorary Medical Service Award, University of Texas Medical Branch at Galveston

Winner of the 1975 NCAA Post Graduate Scholarship for Excellence in Athletics and Academics

Atlantic Coast Conference Academic All-Conference, 1974. Atlantic Coast Conference Honor Roll, 1973.

Omicron Delta Kappa - Honorary Leadership Society, Wake Forest University.

Athletic Scholarship, Wake Forest University, Varsity Football, 1971-1976.

VISITING PROFESSOR:

UCSF Grand Rounds, San Diego, CA February, 2016

Vanderbilt Hillman Lectureship Services, Nashville, TN, April, 2016

Hospital for Special Surgery, New York, NY, March, 2016 New England Baptist Hospital, Boston, Massachusetts, July, 2014

Virginia Commonwealth University Department of Orthopaedics, Richmond, Virginia, June, 2014
University of Utah Department of Orthopaedics, Salt Lake City, Utah, May, 2014

Medical University of South Carolina, Charleston, South Carolina, May, 2014

University of Wisconsin, Madison, Wisconsin, October, 2012

Mayo Clinic, Rochester, Minnesota, May, 2012

Harvard, Boston, Massachusetts, October, 2011

University of Pittsburgh, Pittsburgh, Pennsylvania, November, 2009

Penn State Orthopaedics, Hershey, Pennsylvania, September, 2009.

Vanderbilt University, Nashville, Tennessee, May, 2009

Georgia Orthopaedic Society, Sea Island, Georgia, October, 2008.

Atlanta Orthopaedic Society, Atlanta, Georgia, January 2007

Washington Orthopaedic Society, Arlington, Virginia, October, 2006

Florida Orthopedic Society, Sarasota, Florida, May 20-21, 2005

University of Virginia, Charlottesville, Virginia, October, 2004

New England Baptist Hospital, Boston, Massachusetts, October 17, 2002

University of North Carolina, Chapel Hill, North Carolina, October, 2002.

Anderson Orthopaedic Institute, Alexandria, Virginia, June 6-7, 2001

William Beaumont Hospital, Detroit, Michigan, January 22, 2001

New England Baptist Hospital, Boston, Massachusetts, November 16-17, 2000

University Of Louisville, Louisville, Kentucky, January 1994

University of West Virginia School of Medicine, October, 1993 Morgantown, West Virginia

National Orthopaedic Hospital/Anderson Orthopaedic Clinic Arlington, Virginia, January, 1993

INSTRUCTOR:

Instructional Course Lecture "Management of Infected Total Joint Arthroplasty in 2018 – Where DO We Stand Now?". Annual meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Lousiana, March 9, 2018.

Instructional Course Lecture "Leadership at Every Level: Principles and Practice". Annual meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Lousiana, March 7, 2018.

Instructional Course Lecture "Four Challenges in Revision Total Knee Arthroplasty: Exposure, Safe and Effective Componet Removal, Bone Deficient Management, and Fixation". Annual meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Lousiana, March 7, 2018.

Instructional Course Lecture "Management of the Infected Total Joint Arthroplasty in 2016: Where do we stand now?", Annual meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida, March 3, 2016.

Instructional Course Lecture "Leadership 2.0: How to be a More Effective Leader", Annual meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida, March 1, 2016.

Symposium Y, "How I Perform a Primary and Revision TKA", Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, Nevada, March 24-28, 2015

Residents Course, "AAOS Fundamentals of Hip and Knee Arthroplasty for Orthopaedic Residents, Dallas, Texas, May 16-18, 2014.

Symposium, Debate IV: Debridement and Liner Exchange for Acute Infection: A Reasonable Option (Oppose), Knee Society Specialty Day, Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, March 15, 2014.

Symposium, My Worst Case Competition, Hip Society Specialty Day, Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, March 15, 2014.

Symposium, Knee Society/AAOS Co-branded Symposium, Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, March 12, 2014.

Symposium, Dealing with Intraoperative and Early Postoperative Challenges in Primary THA, Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, March 12, 2014.

Instructional Course, The Difficult Primary Total Knee Arthroplasty, Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans Louisiana, March 13, 2014.

Instructional Course, The Painful MoM Hip Arthroplasty: Evaluation and Management, Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, March 11, 2014.

Instructional Course, Complex Case Controversies in Primary and Revision Total Knee Arthroplasty, Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 20, 2013.

Instructional Course, The Painful Metal-on-Metal Hip Arthroplasty: Evaluation and Management, Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 22, 2013.

Symposium, Improving Outcomes with Total Knee Arthroplasty, Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 22, 2013.

Symposium, Optimizing Management of Patients with Metal-on-Metal Hips, Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 22, 2013.

Instructional Course, Controversies in Complex Primary and Revision Total Hip Replacement, Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 10, 2012

Instructional Course, How to Perform a Primary Total Knee Arthroplasty, Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 10, 2012.

Instructional Course, The Painful Metal on Metal Hip Arthroplasty: Evaluation and Management, Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 8, 2012.

Instructional Course, Hot Topics in Joint Preservation, Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 8, 2012.

Symposium, Controversies in Primary TKA, Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 7, 2012

Instructional Course, How to Perform a Primary TKA: Video Vignettes, Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 17, 2011

Instructional Course, Controversies in Complex Primary and Revision Total Hip Replacement, Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 16, 2011.

Symposium, Current Controversies in TJA, Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 16, 2011

Symposium, Debates on Contemporary Issues in Total Knee Replacement, Annual Meeting of the American Association of Orthopaedic Surgeons, San Diego, CA, February 15, 2011.

Instructional Course, How to Perform a Primary TKA: Video Vignettes, Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 12, 2010.

Symposium, Techniques and Controversies in Total Knee Arthroplasty, Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 12, 2010.

Instructional Course, Controversies in Complex Primary and Revision Total Hip Replacement, Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 12, 2010.

Instructional Course, Techniques in Revision Total Knee Arthroplasty, Annual Meeting of American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11,, 2010.

Surgical Skills course, Techniques in Revision Total Knee Arthroplasty, Annual meeting of American Academy of Orthopaedic Surgeons, Las Vegas, NV, February, 2009.

Instructional Course, Complex Case Controversies in Primary and Revision TKA Annual meeting of American Academy of Orthopaedic Surgeons, Las Vegas, NV, February, 2009.

Instructional Course, Controversies for Complex Primary and Revision Knee Replacement, Annual meeting of American Academy of Orthopaedic Surgeons, San Francisco, CA, March, 2008.

Instructional Course, Revision Total Knee Arthroplasty: Planning, Management and Controversies, Annual meeting of American Academy of Orthopaedic Surgeons, San Francisco, CA, March, 2008.

Instructional Course, Controversies for Complex Primary and Revision Knee Replacement, Annual meeting of American Academy of Orthopaedic Surgeons, San Diego, CA, February, 2007.

Instructional Course, Revision Total Knee Arthroplasty: Planning, Management and Controversies, Annual meeting of American Academy of Orthopaedic Surgeons, San Diego, CA, February, 2007.

Instructional Course, Revision Total Knee Arthroplasty: Planning, Management and Controversies, Annual meeting of American Academy of Orthopaedic Surgeons, Washington, DC, February, 2005.

Instructional Course, Total Knee Replacement in the Young Patient, Annual meeting of American Academy of Orthopaedic Surgeons, Washington, DC, February, 2005.

Instructional Course, Infected Total Joint Arthroplasty, Annual meeting of Academy of Orthopaedic Surgeons, Washington, DC, February, 2005.

Instructional Course, Infected Total Joint Arthroplasty, Annual Meeting American Academy of Orthopaedic Surgeons, San Francisco, CA, March, 2004.

Instructional Course, Total Knee Replacement in the Young Patient, Annual Meeting Academy of Orthopaedic Surgeons, San Francisco, CA, March, 2004.

Instructional Course, Revision Total Knee Arthroplasty: Planning, Management and Controversies, Annual Meeting American Academy of Orthopaedic Surgeons, San Francisco, CA, March, 2004.

Instructional Course, Infected Total Joint Arthroplasty, Annual Meeting American Academy of Orthopaedic Surgeons, New Orleans, LA, February, 2003.

Instructional Course, Total Knee Replacement in the Young Patient, Annual Meeting Academy of Orthopaedic Surgeons, New Orleans, LA, February, 2003.

Instructional Course, Revision Total Knee Arthroplasty: Planning, Management and Controversies, Annual Meeting American Academy of Orthopaedic Surgeons, New Orleans, LA, February, 2003.

Instructional Course, Infected Total Joints, Annual Meeting American Academy of Orthopaedic Surgeons, Dallas, Texas, February, 2002.

Instructional Course, Total Knee Arthroplasty, Annual Meeting American Academy of Orthopaedic Surgeons, Dallas, Texas, February, 2002.

Techniques in Total Knee Arthroplasty: Unicompartmental Primary and Revision Arthroplasty, Orthopaedic Learning Center, Rosemont, Illinois, October 26-28, 2001.

Instructor, Complex Primary and Revision Total Hip and Knee Arthroplasty, American Academy of Orthopaedic Surgeons Summer Institute, Washington, DC.

Instructor, Complex Primary and Revision Total Hip and Knee Arthroplasty, American Academy of Orthopaedic Surgeons Summer Institute, Washington, DC, September 6-7, 1997.

PEER REVIEWED PUBLICATIONS: (n =118)

 <u>Should Depression Be Treated Prior to Lower Extremity Arthroplasty?</u> The Journal Of Arthroplasty. Fehring MD, Thomas; Odum, Susan; Curtin MD, Brian; Mason MD; J. Bohannon; Fehring MD, Keith; Springer MD; Bryan. Volume 34 DOI: https://doi.org/10.1016/j.arth.2018.05.037. July 2018.

- Early Failure of Primary Total Hip Arthroplasty: Is Surgical Approach a Risk Factor? Angerame MR, Fehring TK, Masonis JL, Mason JB, Odum SM, Springer BD. J Arthroplasty. 2018 Jun; 33(6):1780-1785. doi: 10.1016/j.arth.2018.01.014. Epub 2018 Feb 2.
- <u>Tapered modular fluted titanium stems for femoral fixation in revision total knee arthroplasty</u>. Stambough JB, Mason JB, Riesgo AM, Fehring TK. Arthroplasty Today. 2017 Apr 21; 4(1):3-9. doi: 10.1016/j.artd.2017.03.006. eCollection 2018 Mar.
- High Rate of Positive Cultures in Patients Referred With Antibiotic Spacers as Part of 2-Stage <u>Exchange</u>. Perry KI, Sproul RC, Sierra RJ, Abdel MP, Fehring TK, Hanssen AD. J Arthroplasty. 2018 Jul; 33(7):2230-2233. doi: 10.1016/j.arth.2018.02.059. Epub 2018 Feb 21.
- Midterm Survivorship After Revision Total Hip Arthroplasty With a Custom Triflange Acetabular Component. Gladnick BP, Fehring KA, Odum SM, Christie MJ, DeBoer DK, Fehring TK. J Arthroplasty. 2018 Feb; 33(2):500-504. doi: 10.1016/j.arth.2017.09.026. Epub 2017 Sep 21.
- <u>Are Ceramic Bearings Becoming Cost-Effective for All Patients?</u> Kurtz SM, Lau EC, Baykal D, Odum SM, Springer BD, Fehring TK. J Arthroplasty. 2018 May; 33(5):1352-1358. doi: 10.1016/j.arth.2017.12.011. Epub 2017 Dec 21.
- Does Change in ESR and CRP Guide the Timing of Two-stage Arthroplasty Reimplantation? Clinical Orthopaedics and Related Research. Jeffrey B. Stambough MD., Jeffery B; Curtin MD, Curtin; Odum PhD, Susan M.; Cross MD, Michael B.; Martin MD, Ryan; Fehring MD; TK. Received: 17 October 2017 / revised: 26 March 2018 / Accepted: 2 April 2018. Copyright © 2018 by the Association of Bone and Joint Surgeons
- <u>Catastrophic Varus Collapse of the Tibia in Obese Total Knee Arthroplasty.</u> Fehring TK, Fehring KA, Anderson LA, Otero JE, Springer BD. J Arthroplasty. 2017 May; 32(5):1625-1629. doi:10.1016/j.arth.2016.12.001. Epub 2017 Jan 30.
- <u>Can Original Knee Society Scores Be Used to Estimate New 2011 Knee Society Scores?</u> Odum SM, Fehring TK; Knee Society Crosswalk Writing Group. Clin Orthop Relat Res. 2017 Jan; 475(1):160-167. doi: 10.1007/s11999-016-4886-0.
- <u>Radiographic Findings in Patients With Catastrophic Varus Collapse After Total Knee Arthroplasty</u>. Martin JR, Fehring KA, Watts CD, Springer BD, Fehring TK. J Arthroplasty. 2018 Jan; 33(1):241-244. doi: 10.1016/j.arth.2017.08.014. Epub 2017 Aug 31.
- Direct Anterior Approach: Risk Factor for Early Femoral Failure of Cementless Total Hip <u>Arthroplasty: A Multicenter Study.</u> Meneghini RM, Elston AS, Chen AF, Kheir MM, Fehring TK, Springer BD. J Bone Joint Surg Am. 2017 Jan 18;99(2):99-105. doi: 10.2106/JBJS.16.00060.
- <u>Role of Patellofemoral Offset in Total Knee Arthroplasty: A Randomized Trial.</u> Stryker LS, Odum SM, Springer BD, Fehring TK. Orthop Clin North Am. 2017 Jan; 48(1):1-7. doi: 10.1016/j.ocl.2016.08.001. Epub 2016 Oct 28.
- <u>Cost Analysis of Ceramic Heads in Primary Total Hip Arthroplasty.</u> Carnes KJ, Odum SM, Troyer JL, Fehring TK. J Bone Joint Surg Am. 2016 Nov 2; 98(21):1794-1800.
- Estimating the Societal Benefits of THA After Accounting for Work Status and Productivity: A Markov Model Approach. Koenig L, Zhang Q, Austin MS, Demiralp B, Fehring TK, Feng C, Mather RC 3rd, Nguyen JT, Saavoss A, Springer BD, Yates AJ Jr. Clin Orthop Relat Res. 2016 Dec;474(12):2645-2654. Epub 2016 Oct 3.

- 15. <u>AAHKS Risk Adjustment Initiative: Why Is It Important?</u> Fehring TK. J Arthroplasty. 2016 Jun; 31(6):1148-50. doi: 10.1016/j.arth.2016.02.083. Epub 2016 Mar 22.
- Differences in Hospital Billing for Total Joint Arthroplasty Based on Hospital Profit Status. Hall BM, Odum SM, Fehring TK, Stryker LS. J Arthroplasty. 2016 Sep; 31(9 Suppl):37-40. doi: 10.1016/j.arth.2016.02.067. Epub 2016 Mar 15.
- Cystic Adverse Local Tissue Reactions in Asymptomatic Modular Metal-on-Metal Total Hips May Decrease Over Time. Goldstein JM, Fehring TK, Fehring KA. J Arthroplasty. 2016 Jul; 31(7):1589-94. doi: 10.1016/j.arth.2016.01.020. Epub 2016 Jan 21.
- <u>Radiation Exposure During Fluoro-Assisted Direct Anterior Total Hip Arthroplasty.</u> Pomeroy CL, Mason JB, Fehring TK, Masonis JL, Curtin BM. J Arthroplasty. 2016 Aug; 31(8):1742-5. doi: 10.1016/j.arth.2016.01.031. Epub 2016 Jan 29.
- <u>Rapidly destructive osteoarthritis can mimic infection.</u> Hart G, Fehring T. Arthroplast Today. 2016 Jan 9; 2(1):15-18. doi: 10.1016/j.artd.2015.11.003. eCollection 2016 Mar.
- What Is the Benefit of Tranexamic Acid vs Reinfusion Drains in Total Joint Arthroplasty? Springer BD, Odum SM, Fehring TK. J Arthroplasty. 2016 Jan; 31(1):76-80. doi:10.1016/j.arth.2015.08.006. Epub 2015 Aug 18.
- <u>Cobalt to Chromium Ratio is Not a Key Marker for Adverse Local Tissue Reaction (ALTR) in Metal</u> <u>on Metal Hips.</u> Fehring TK, Carter JL, Fehring KA, Odum SM, Griffin WL. J Arthroplasty. 2015 Sep; 30(9 Suppl):107-9. doi: 10.1016/j.arth.2015.02.049. Epub 2015 Jun 3.
- Using joint registry data from FORCE-TJR to improve the accuracy of risk-adjustment prediction models for thirty-day readmission after total hip replacement and total knee replacement. Ayers DC, Fehring TK, Odum SM, Franklin PD. J Bone Joint Surg Am. 2015 Apr 15; 97(8):668-71. doi: 10.2106/JBJS.N.00889. Review.
- 23. <u>Modes of failure in metal-on-metal total hip arthroplasty.</u> Fehring KA, **Fehring TK**.Orthop Clin North Am. 2015 Apr; 46(2):185-92. doi: 10.1016/j.ocl.2014.11.001. Epub 2014 Dec 23. Review.
- 24. Economic Impact of Orthopedic Adult Reconstruction Office Practice: The Implications of Hospital Employment Models on Local Economies. Lorio R, Fehring TK, York S, Froimson M, Halsey D, Odum S, Davis CM, Santore R, McIntyre LF. J Arthroplasty. 2015 Jun; 30(6):923-30. doi:10.1016/j.arth.2015.01.007. Epub 2015 Jan 22.
- 25. One size does not fit all: involve orthopaedic implant patients in deciding whether to use prophylactic antibiotics with dental procedures. Jevsevar DS, Cummins DS, Azar FM, Parsley BS, Fehring TK, Lachiewicz PF, Watters WC 3rd. J Am Acad Orthop Surg. 2015 Mar;23(3):141-2. doi: 10.5435/JAAOS-D-15-00045. Epub 2015 Feb 9.
- Metal artifact reduction sequence MRI abnormalities occur in metal-on-polyethylene hips. Fehring TK, Fehring K, Odum SM. Clin Orthop Relat Res. 2015 Feb; 473(2):574-80. doi: 10.1007/s11999-014-3873-6.

- <u>Revisions of monoblock metal-on-metal THAs have high early complication rates.</u> Stryker LS, Odum SM, Fehring TK, Springer BD. Clin Orthop Relat Res. 2015 Feb;473(2):469-74. doi: 10.1007/s11999-014-3791-7.
- 28. <u>Risk stratification algorithm for management of patients with dual modular taper total hip arthroplasty:</u> <u>consensus statement of the American Association of Hip and Knee Surgeons, the American Academy</u> <u>of Orthopaedic Surgeons and the Hip Society.</u> Kwon YM, **Fehring TK**, Lombardi AV, Barnes CL, Cabanela ME, Jacobs JJ. J Arthroplasty. 2014 Nov; 29(11):2060-4. doi: 10.1016/j.arth.2014.07.029. Epub 2014 Jul 31.
- 29. <u>Risk stratification algorithm for management of patients with metal-on-metal hip arthroplasty:</u> consensus statement of the American Association of Hip and Knee Surgeons the American Academy of Orthopaedic Surgeons, and the Hip Society. Kwon YM, Lombardi AV, Jacobs JJ, **Fehring TK,** Lewis CG, Cabanela ME. J Bone Joint Surg Am. 2014 Jan 1; 96(1):e4. doi: 10.2106/JBJS.M.00160
- 30. <u>Errors in knee alignment using fixed femoral resection angles.</u> Curtin B, **Fehring TK**, Lauber J. Orthopedics. 2014 Jul; 37(7):e644-8. doi: 10.3928/01477447-20140626-56.
- 31. <u>Variations in hospital billing for total joint arthroplasty.</u> Stryker LS, Odum SM, **Fehring TK.** J Arthroplasty. 2014 Sep; 29(9 Suppl):155-9. doi: 10.1016/j.arth.2014.03.052. Epub 2014 May 27.
- 32. <u>Clinical & radiographic outcomes of cemented vs. diaphyseal engaging cementless stems in aseptic</u> <u>revision TKA.</u> Gililland JM, Gaffney CJ, Odum SM, Fehring TK, Peters CL, Beaver WB. J Arthroplasty. 2014 Sep; 29(9 Suppl):224-8. doi: 10.1016/j.arth.2014.03.049. Epub 2014 May 24.
- 33. <u>Risk stratification algorithm for management of patients with metal-on-metal hip arthroplasty:</u> <u>consensus statement of the American Association of Hip and Knee Surgeons, the American Academy</u> <u>of Orthopaedic Surgeons, and the Hip Society.</u> Kwon YM, Lombardi AV, Jacobs JJ, Fehring TK, Lewis CG, Cabanela ME. J Bone Joint Surg Am. 2014 Jan 1; 96(1):e4. doi: 10.2106/JBJS.M.00160.
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Paul Duwelius, Frederick Azar, (eds), <u>Instructional Course Lectures, Vol. 57</u>, 2008, American Academy of Orthopaedic Surgeons, Chap. 33, "*Revision Total Knee Arthroplasty: Planning, Management, and Controversies*".

Paul A. Lotke, Jess H. Lonner, (eds), <u>Master Techniques in Orthopaedic Surgery: Knee Arthroplasty</u>, <u>3rd Edition</u>, Lippincott, Williams and Wilkins, Philadelphia, PA., 2008, Chap. 4, "*Exposing the Revision Total Knee Arthroplasty*".

Pellegrini VD, Huo MH (eds), <u>Current Opinion in Orthopedics Vol. 19 (1)</u>, Chap. "Prevention and Ttreatment of Stiffness Following Total Knee Arthroplasty", 2008.

Scott M. Sporer (ed.), <u>Curbside Consultation in Total Hip Arthroplasty: 49 Clinical Questions</u>, SLACK Inc., Chicago, 2008, Chap. 24, *Case: 84 year-old female with previous cemented THA with proximal osteolysis fell and has a periprosthetic femur fracture*,

Daniel J. Berry, Scott P. Steinmann (eds), <u>Orthopaedic Surgery Essentials Series: Adult</u> <u>Reconstruction</u>, Lippincott & Wilkins, Philadelphia, 2007, Chap. "*Revision Total Knee Arthroplasty*".

Insall and Scott (eds), <u>Surgery of the Knee</u>, Elsevier, Philadelphia, PA, 2005, Chap 91, "*Cemented Total Knee Replacement: The Gold Standard*".

James Bono, Richard D. Scott (eds), <u>Revision Total Knee Arthroplasty</u>, Springer, New York, New York, 2005, Chap. "Use of Stems in Revision Total Knee Arthroplasty".

Jorge Galante, Aaron Rosenberg, John Callaghan (eds), <u>Total Hip Revision Surgery</u>, Colophon, Massachusetts, 1994, Chap. "*Total Hip Revision Surgery:Aspiration and Frozen Histological Section as Guides to Sepsis in Revision Total Hip Arthroplasty*"

Aaron Rosenberg, Harry Rubash, John Callaghan (eds), <u>The Adult Hip</u>, New York, New York, 1998, Chap. "*Indications and Contrainidications of Total Hip Arthroplasty*".

Gerard Engh, M.D., Cecil Rorabeck, M.D. (eds), <u>Revision of Total Knee Arthroplasty</u>, Baltimore, Maryland, 19 Chap. "*Revision of the Unstable Total Knee Arthroplasty*".

PRESENTATIONS (n=607):

1. "Results of Single Stage Reimplanation for Periprosthetic Joint Infection." Poster No. P0022. Annual Meeting of the American Association of Orthopaedic Surgeons, New Orleans, Lousiana March 2018.

- "Initial Metal Ion Levels Predict Risk of Elevation in Metal-on-Metal Total Hip Arthroplasty." Poster No. P0022. Annual Meeting of the American Association of Orthopaedic Surgeons, New Orleans, Lousiana March 2018.
- "Mid-Term Survivorship and Patient Satisfaction of Robotic-Assisted Unicompartmental Knee Arthroplast: A Multicenter Study." Poster No. P0170. Annual Meeting of the American Association of Orthopaedic Surgeons, New Orleans, Lousiana March 2018.
- "Are Preoperative Depressive Symptoms a Contraindiction for Lower Extremity Arthroplasty?" Poster No. P0170. Annual Meeting of the American Association of Orthopaedic Surgeons, New Orleans, Lousiana March 2018.
- 5. "Simultaneous Femoral and Tibial Cementation Negativity Effects Tibial Fixation in Total Knee Arthroplasty." Annual Meeting of the American Association of Orthopaedic Surgeons, New Orleans, Lousiana March 2018.
- 6. "What is the Impact of the Coronal stem Alighnment in Uncemented Tapered Primary Total Hip Arthroplasties? Annual Meeting of the American Association of Orthopaedic Surgeons, New Orleans, Lousiana March 8, 2018.
- 7. "Are External Alignment Jigs Making us Miss the Mark in Total Hip Arthroplasty?" Annual Meeting of the American Association of Orthopaedic Surgeons, New Orleans, Lousiana March 8, 2018.
- "Irrigation and Debridement of Unresected Revision Components in Periprosthetic Joint Infection". Annual Meeting of the American Association of Orthopaedic Surgeons New Orleans, Lousiana. March 6, 2018.
- ICJR 5th Annual Revision Hip Knee Course, Bone Defect Management: Custom Tri-Flange (Video), Essential Surgical Steps for Successful Revision TKA (VideoTechniques) Kahler-Grand – Rochester, MN April 6-8, 2017
- 10. "10 Commenated of Starting Practice" & "Periprosthetic Infection in 2017 A 30 year Experience". Mass General Hospital, Boston, MA, March 2017.
- 11. "Too Loose Too Tight Just Right Total Knee Arthroplasty Is A Soft Tissues Operation" Austin Grand Rounds, Austin, TX October 5, 2016.
- 12. "Why Fit & Fill Stems Are My Go To" Oscar Miller Day, Charlotte, NC September 29, 201.
- 13. "Arthrofibrosis Periprosthetic Infection Current Studies " Oscar Miller Day, Charlotte, NC, September 29,2016.
- 14. "Pearls for Patients Optimization" Oscar Miller Day, Charlotte, NC, September 29,2016
- 15. "Orthopaedic Innovation: Opportunities, Challenges and Responsibilities" John Insall Honorary Lecture, New York, NY, March 30, 2016.
- 16. "The Effect of Taper-Trunnion Angular Mismatch and Surface Finish on Trunnion Fretting: An Experimental Model" (poster), Annual meeting of the Orthopaedic Research Society, Orlando, Florida, March 5-8, 2016.
- 17. "Failed Metal-on-Metal: Current Diagnostic Algorithm and Guidelines", Hip Society 2016 Open Meeting/AAOS Specialty Day, Orlando, Florida, March 5, 2016.

- 18. "Prevention and Treatment of Knee Instability", Knee Society 2016 Open meeting/AAOS Specialty Day, Orlando, Florida, March 5, 2016.
- 19. "Leadership 2.0". Annual Meeting of the American Association of Orthopaedic Surgeons, Orlando, Florida, March 1-5, 2016.
- 20. "Goal Setting". Annual Meeting of the American Association of Orthopaedic Surgeons, Orlando, Florida, March 1-5, 2016.
- 21. "Fighting Inertia". Annual Meeting of the American Association of Orthopaedic Surgeons, Orlando, Florida, March 1-5, 2016.
- 22. Maintaining Balance while Leading". Annual Meeting of the American Association of Orthopaedic Surgeons, Orlando, Florida, March 1-5, 2016.
- 23. "Custom Triflange is Best for Revisions with Massive Bone Loss". Annual Meeting of the American Association of Orthopaedic Surgeons, Orlando, Florida, March 1-5, 2016.
- 24. "The Most Important Things that I do to Avoid Infection". Annual Meeting of the American Association of Orthopaedic Surgeons, Orlando, Florida, March 1-5, 2016.
- 25. "Management of Infected TJA in 2016: Where do we stand now?". Annual Meeting of the American Association of Orthopaedic Surgeons, Orlando, Florida, March 1-5, 2016.
- 26. "Can you Crosswalk Original Knee Society Scores to the New 2011 Knee Society Score?" (poster). Annual Meeting of the American Association of Orthopaedic Surgeons, Orlando, Florida, March 1-5, 2016.
- 27. "Catastrophic Varus Collapse of the Tibia in Obese Total Knee Patients", Annual Meeting of the American Association of Orthopaedic Surgeons, Orlando, Florida, March 1-5, 2016.
- 28. "OutpatientTotal Joint: A Big Mistake,The Wrong Mission", 8th Annual ICJR Winter Hip and Knee course, Vail, Colorado, January 14-16, 2016.
- 29. "Current Diagnostic Algorithm and Guidelines for MoM Hips", 8th Annual ICJR Winter Hip and Knee course, Vail, Colorado, January 14-16, 2016.
- 30. "The Case of Mobile Spacers", 8th Annual ICJR Winter Hip and Knee course, Vail, Colorado, January 14-16, 2016.
- 31. "AAHKS Risk Adjustment Initiative: An Update", 8th Annual ICJR Winter Hip and Knee course, Vail, Colorado, January 14-16, 2016.
- 32. "Highlights from the Members Meeting of the Knee Society", 8th Annual ICJR Winter Hip and Knee course, Vail, Colorado, January 14-16, 2016.
- 33. "Revision of Monoblock MoM Total Hip Arthroplasty: Is there a Place for Dual Mobility without Cup Extraction?",
- 34. "AAHKS Risk Adjustment Initiative: An Update", Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 5-8, 2015.

- 35. "Differences in Hospital Billing for Total Joint Arthroplasty Based on Hospital Profit Status", Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 5-8, 2015.
- 36. "The Sticky Wicket of Length of Stay and Reimbursement Calculations", Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 5-8, 2015.
- 37. "Revision of Monoblock MOM Total Hip Arthroplasty: Is There a Place for Dual Mobility without Cup Extraction?", 2015 Members meeting of the Hip Society, Sonoma, California, October 15-17, 2015.
- 38. "Can you Crosswalk Original Knee Society Scores to the New 2011 Knee Society Score?", The 2015 Members meeting of the Knee Society, San Francisco, California, September 24-26, 2015.
- 39. "Catastrophic Varus Collapse of the Tibia in Obese Total Knee Patients", Annual Meeting of the Twentieth Century Orthopaedic Association, Sedona, Arizona, September 16-20, 2015.
- 40. "What is the Cost-effective Bearing Surface Choice in Primary Total Hip Arthroplasty" (*poster*), ISPOR 20th Annual International meeting, Philadelphia, PA, May 16-20, 2015.
- 41. "Current Diagnostic Algorithm and Guidelines for MoM Hips", ICJR 3rd Annual Revision Hip and Knee Course, Philadelphia, PA May 1-2, 2015.
- 42. "The Case for Mobile Spacers", ICJR 3rd Annual Revision Hip and Knee Course, Philadelphia, PA May 1-2, 2015.
- 43. "Differential Diagnosis of the Painful THA", ICJR 3rd Annual Revision Hip and Knee Course, Philadelphia, PA May 1-2, 2015.
- 44. "Worst Case 2015", Grand Rounds, Philadelphia, PA, April 30, 2015.
- 45. "How do I get out of this jam? The femur is cracked", Grand Rounds, Philadelphia, PA, April 30, 2015.
- 46. "Orthopaedic Innovations:Opportunities, Challenges, and Responsibilities", Grand Rounds, Philadelphia, PA, April 30, 2015.
- 47. "How do I get out of this jam? Prevention and Treatment of Flexion Contracture", Grand Rounds, Philadelphia, PA, April 30, 2015.
- 48. "Outpatient Surgery: The Wrong Mission", Symposium: Trends in Total Joints (panelist), Texas Orthopaedic Association Annual meeting, Austin, Texas, April 17, 2015.
- 49. "Gap Balancing in Primary Total Knee Arthroplasty", Knee Society/AAOS 2015 Specialty Day, Las Vegas, NV, March 28, 2015.
- 50. "My Worst Case", Knee Society/AAOS 2015 Specialty Day, Las Vegas, NV, March 28, 2015.
- 51. "Revision of Failed Metal-Metal Total Hip and Resurfacing", Hip Society/AAOS 2015 Specialty Day, Las Vegas, NV, March 28, 2015
- 52. "Prevention and Treatment of Flexion Contracture", Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, Nevada, March 24-28, 2015.

- 53. "How I Balance the Revision Knee", Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, Nevada, March 24-28, 2015.
- 54. "Adult Reconstruction Knee", Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, Nevada, March 24-28, 2015.
- 55. "Cobalt to Chromium Ratio is not a key marker for MoM Hips" (paper presentation), Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, Nevada, March 24-28, 2015.
- 56. "Adverse Local Tissue Reactions in Asymptomatic Modular MoM Total Hips Decrease over time" (paper presentation), Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, Nevada, March 24-28, 2015.
- 57. "Are Ceramic Heads Worth the Price? A Cost-effectiveness Analysis", Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, Nevada, March 24-28, 2015.
- 58. "Removing the Infected Femoral Component", ICJR Winter Hip and Knee Course Vail, Colorado, January 15-18, 2015.
- 59. "Current Diagnostic Algorithm and Guidelines for MoM Hips", ICJR Winter Hip and Knee Course Vail, Colorado, January 15-18, 2015.
- 60. "Outpatient Total Joints: A Big Mistake", ICJR Winter Hip and Knee Course Vail, Colorado, January 15-18, 2015.
- 61. "Cemented Stems: Better Choice in Revision TKA", ICJR Winter Hip and Knee Course Vail, Colorado, January 15-18, 2015.
- 62. "Understanding Risk Adjustment: An Overview", James O. Johnston Orthopaedic Symposium, Oakland, California, November 14-15, 2014.
- 63. "OrthoCarolina: Excellence in Orthopaedics", James O. Johnston Orthopaedic Symposium, Oakland, California, November 14-15, 2014.
- 64. "How Do I Get Out of this Jam: The Femur is Cracked", James O. Johnston Orthopaedic Symposium, Oakland, California, November 14-15, 2014.
- 65. "Periprosthetic Joint Infection: An Algorithmic Approach", Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 6-9, 2014.
- 66. "Interesting Cases", Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 6-9, 2014.
- 67. "Cobalt to Chromium Ratio is not a Key Marker for ALTR in Metal on Metal Hips", Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 6-9, 2014.
- 68. "Are Ceramic Heads Worth the Price? A Cost-effectiveness Analysis" (poster), Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 6-9, 2014.
- 69. "Efficacy and Cost Analysis of Reinfusion Drains vs. Tranexamic Acid in Total Joint Arthroplasty: A Prospective Randomized Trial", (poster) Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 6-9, 2014.

- 70. "Cystic Adverse Local Tissue Reactions in Asymptomatic Modular Metal-on-Metal Total Hips May Decrease Over Time" (poster), Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 6-9, 2014.
- 71. "Improving Medicare Readmission Risk Adjustment Model Should Maintain Access" (poster), Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 6-9, 2014.
- 72. "Addition of Clinical Measures Improves Administrative Risk-prediction Models of 30-Day Post-total Joint Replacement Readmission" (poster), Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 6-9, 2014.
- 73. "Unsolved Problems or Disaster Management", Closed Meeting of The Knee Society, Charlotte, North Carolina, October 16-18, 2014.
- 74. "Knee Arthroscopy in Patients Over 50: A Midlife Crisis?", Closed Meeting of The Knee Society, Charlotte, North Carolina, October 16-18, 2014.
- 75. "Development of a Regression Model to Map Original Knee Society Scores to the 2011 Knee Society Score (Knee Society Grant Update)", Closed Meeting of The Knee Society, Charlotte, North Carolina, October 16-18, 2014.
- 76. "Cystic ALTRs in Asymptomatic Modular MoM Patients May Decrease Over Time", The 2014 Summer Meeting of The Hip Society, Durham, North Carolina, September 11-13, 2014.
- 77. "Periprosthetic Infection: A 28 Year Learning Experience", Grand Rounds, New England Baptist Hospital, Boston, Massachusetts, July 15-16, 2014.
- 78. "Limitations of Current TKA Designs", ATTUNE® Knee System, Super SMART Lab, Carolinas Surgical Skills Center, Charlotte, North Carolina, June 20, 2014.
- 79. "Design Characteristics for a Novel Knee System", ATTUNE® Knee System, Super SMART Lab, Carolinas Surgical Skills Center, Charlotte, North Carolina, June 20, 2014.
- 80. "Maintaining Balance While Leading", Orthopaedic Residents/Fellows Day Ceremony (Robert Hussey Memorial Lectureship), Virginia Commonwealth University, Richmond, Virginia, June 13, 2014.
- "Orthopaedic Innovation: Opportunities, Challenges, and Responsibilities", Orthopaedic Residents/Fellows Day Ceremony (Robert Hussey Memorial Lectureship), Virginia Commonwealth University, Richmond, Virginia, June 13, 2014.
- 82. "Balancing the Valgus Knee", Orthopaedic Residents/Fellows Day Ceremony (Robert Hussey Memorial Lectureship), Virginia Commonwealth University, Richmond, Virginia, June 13, 2014.
- 83. "Understanding Risk Adjustment: An Overview", Richmond Orthopaedic Club, Richmond Virginia, June 12, 2014.
- 84. "Orthopedic Innovation: Opportunities, Challenges and Responsibilities", Orthopaedic Grand Rounds, University of Utah School of Medicine, Salt Lake City, Utah, May 28, 2014.
- 85. "The OrthoCarolina Experience", Orthopaedic Grand Rounds, University of Utah School of Medicine, Salt Lake City, Utah, May 28, 2014.

- 86. "Goal Setting", Orthopaedic Grand Rounds, University of Utah School of Medicine, Salt Lake City, Utah, May 28, 2014.
- 87. "Fighting Inertia", Orthopaedic Grand Rounds, University of Utah School of Medicine, Salt Lake City, Utah, May 28, 2014.
- 88. "Current Diagnostic Algorithm Guidelines for MoM Hips", Fundamentals of Hip and Knee Arthroplasty for Orthopaedic Residents", Dallas, Texas, May 16-18, 2014.
- 89. "How I Perform Gap Balancing", Fundamentals of Hip and Knee Arthroplasty for Orthopaedic Residents", Dallas, Texas, May 16-18, 2014.
- 90. "Periprosthetic Infection: A 25 Year Learning Experience", Grand Rounds, Medical University of So Carolina, Charleston, South Carolina, May 5-6, 2014.
- 91. "Orthopaedic Innovation: Opportunities, Challenges and Responsibilities", Grand Rounds, Medical University of So Carolina, Charleston, South Carolina, May 5-6, 2014.
- 92. "Current Diagnostic Algorithm and Guidelines for MoM Hips", Grand Rounds, Medical University of So Carolina, Charleston, South Carolina, May 5-6, 2014.
- 93. "Taper-trunnion Interface Stresses in Metal on Metal Hip Implant Systems Become Critical with Ball Size and During Certain Activities" (*poster*), Annual meeting of Orthopaedic Research Society, New Orleans, Louisiana, March 15-18, 2014.
- 94. "My Worst Case", Combined Specialty Day of The Hip Society, The Knee Society, and the American Association of Hip and Knee Surgeons, New Orleans, LA, March 15, 2014.
- 95. "Highlights of the AAHKS Meeting", Combined Specialty Day of The Hip Society, The Knee Society, and the American Association of Hip and Knee Surgeons, New Orleans, LA, March 15, 2014.
- 96. "Debridement and Liner Exchange for Periprosthetic Infection", Combined Specialty Day of The Hip Society, The Knee Society, and the American Association of Hip and Knee Surgeons, New Orleans, LA, March 15, 2014.
- 97. "Differential Diagnosis of the Painful THA", 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.
- "Adult Reconstruction Knee", 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.
- 99. "Current Diagnostic Algorithm and Guidelines for MoM Hips", 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.
- 100. "What is the FDA Saying about MoM Implants", 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.
- 101. "How Do I Perform Gap Balancing", 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.
- 102. "TKA in Patients with Severe Valgus or Varus Deformity", 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.

- 103. "How Do I Get Out of this Jam: The Femur is Cracked", 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.
- 104. "Optimizing Evidence-Based Management of Patients with Dual Taper Stem with Cobalt Chromium Modular Neck" (*Scientific Exhibit*), 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.
- 105. "Pelvic Discontinuity: Diagnosis and Surgical Management in Revision THA" (*ScientificExhibit*), 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.
- 106. "Effect of Surgical Approach Imaging on Acetabular Alignment in Hip Arthroplasty" (*poster*), 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.
- 107. "The Role of Hip Aspiration in the Diagnosis of Infection in Metal on Metal Hip Arthroplasty" (poster), 2014 Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.
- 108. "Maintaining Balance While Leading", AAHKS Emerging Leaders Retreat, Charlotte, NC, January 31-February 1, 2014.
- 109. "Fighting Inertia", AAHKS Emerging Leaders Retreat, Charlotte, NC, January 31-February 1, 2014.
- 110. "Goal Setting: A Continual Process", AAHKS Emerging Leaders Retreat, Charlotte, NC, January 31-February 1, 2014.
- 111. "Energy Renewal and Stress Management Symposium", AAHKS Emerging Leaders Retreat, Charlotte, NC, January 31-February 1, 2014.
- 112. "AAHKS Efforts in Risk Adjustment and Arthroplasty Reimbursement", Sixth Annual ICJR Winter Hip and Knee Course, Vail, Colorado, January 16-19, 2014.
- 113. "Current Diagnostic Algorithm and Guidelines for MoM Hips", Sixth Annual ICJR Winter Hip and Knee Course, Vail, Colorado, January 16-19, 2014.
- 114. "Orthopaedic Innovation Opportunities, Challenges and Responsibilities", Sixth Annual ICJR Winter Hip and Knee Course, Vail, Colorado, January 16-19, 2014.
- 115. "Gap Balancing in Primary Total Knee Arthroplasty", Sixth Annual ICJR Winter Hip and Knee Course, Vail, Colorado, January 16-19, 2014.
- 116. "Public Reporting of Readmissions and Complications", Annual meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 8-10, 2013.
- 117. "Medicare Reimbursement Cuts: It's Not Armageddon", Annual meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 8-10, 2013.
- 118. "Medicare Reimbursement Symposium: Keeping the Lights on While Serving", Annual meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 8-10, 2013.

- 119. "Caution! High Rate of Positive Cultures in Referred Patients with Antibiotic Spacers" (*poster*), Annual meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 8-10, 2013.
- 120. "Early Complications Following Revision of Large Diameter Monoblock Metal on Metal Total Hip Arthroplasty", The 2013 Summer Meeting of The Hip Society, Charleston, South Carolina, October 3-5, 2013.
- 121. "MARS MRI Findings: A Comparative Bearing Analysis", The 2013 Summer Meeting of The Hip Society, Charleston, South Carolina, October 3-5, 2013.
- 122. "Role of Patellofemoral Offset on Anterior Knee Pain Following Total Knee Arthroplasty", The 2013 Members Meeting of The Knee Society, Toronto, ON Canada, September 19-21, 2013.
- 123. "Current Diagnostic Algorithm and Guidelines for MoM Hips", International Congress for Joint Reconstruction West Course, Napa, California, June 6-8, 2013.
- 124. "Painful TKA: Cost Effective Algorithm", International Congress for Joint Reconstruction West Course, Napa, California, June 6-8, 2013.
- 125. "Efficacy of Debridement and Poly Exchange for Periprosthetic Infection", International Congress for Joint Reconstruction West Course, Napa, California, June 6-8, 2013.
- 126. "Unstable Total Knee Arthroplasty: Case Presentations", International Congress for Joint Reconstruction West Course, Napa, California, June 6-8, 2013.
- 127. "Diaphyseal Preparation and Fixation with Stem Extensions", The Second Open Meeting of the European Knee Associates Best Current Practice in Europe, Florence, Italy April 3-5, 2013.
- 128. "Case Challenge Revision TKA", The Second Open Meeting of the European Knee Associates Best Current Practice in Europe, Florence, Italy April 3-5, 2013.
- 129. "Stem Fixation in Revision TKA", The Second Open Meeting of the European Knee Associates Best Current Practice in Europe, Florence, Italy April 3-5, 2013.
- 130. "Uncemented vs. Cemented Stems in Two-Stage Revision for Infected Total Knee Arthroplasty" AAHKS/Knee Society Specialty Day, Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago Illinois, March 23, 2013.
- 131. "My Worst Case", AAHKS/Hip Society Specialty Day, Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 23, 2013.
- 132. "Physical Therapy Mandates by Medicare Adminstrative Contractors", Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 19-22, 2013.
- 133. "Adult Reconstruction Knee", Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 19-22, 2013.
- 134. "Management of Periarticular Hardware in TKA", Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 19-22, 2013.

- 135. "The Hip Society: Optimizing Management of Patients with Metal-on-Metal Hips" (Scientific Exhibit), Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 19-22, 2013.
- 136. "Current Diagnostic Algorithm and Guidelines for MoM Hips", Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 19-22, 2013.
- 137. "Differential Diagnosis of the Painful Metal-on-Metal Arthroplasty", Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 19-22, 2013.
- 138. "Understanding Risk Adjustment: An Overview", Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 19-22, 2013.
- 139. "What AAHKS is Doing to Develop an Arthroplasty Comorbidity Index", Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 19-22, 2013.
- 140. "Prevalence of Pseudotumors in Asymptomatic Patients with Modular Metal-on-Metal Total Hip Arthroplasties" (poster), Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 19-22, 2013.
- 141. "Early Failure in Total Hip Arthroplasty: A Changing Paradigm" (poster), Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 19-22, 2013.
- 142. "Uncemented vs. Cemented Stems in Two-Stage Revision for Infected Total Knee Arthroplasty" (poster), Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, Illinois, March 19-22, 2013.
- 143. "The Resurrection of the All Poly Tibia", 5th Annual Winter Hip and Knee Course, International Congress for Joint Reconstruction, Vail, Colorado, January 17-20, 2013.
- 144. "Periprosthetic Infection: A 25-year Learning Experience", 5th Annual Winter Hip and Knee Course, International Congress for Joint Reconstruction, Vail, Colorado, January 17-20, 2013.
- 145. "Current Diagnostic Algorithm and Guidelines for MoM Hips", 5th Annual Winter Hip and Knee Course, International Congress for Joint Reconstruction, Vail, Colorado, January 17-20, 2013.
- 146. "Understanding Risk Adjustment: An Overview. Why this is Important", American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, Nov. 2-4, 2012.
- 147. "Boots on the Ground: An AAHKS Initiative", American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, Nov. 2-4, 2012.
- 148. "Effect of Surgical Approach and Intraoperative Imaging on Acetabular Component Alignment in Total Hip Arthroplasty," American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, Nov. 2-4, 2012.
- 149. "National Obesity Trends in Total Knee Arthroplasty", American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, Nov. 2-4, 2012.
- 150. "Prevalence of ALTR in Asymptomatic Patients with Modular Metal-on-Metal Total Hip Arthroplasties" (poster), American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, Nov. 2-4, 2012.

- 151. "Developmental Dysplasia of the Hip", Orthopaedic Team Member Course, American Association of Hip and Knee Surgeons Annual Meeting, Dallas, Texas, November 2, 2012.
- 152. "Current Diagnostic Algorithm and Guidelines for MoM Hips", Orthopaedic Team Member Course, American Association of Hip and Knee Surgeons Annual Meeting, Dallas, Texas, November 2, 2012.
- 153. "Posterior Cruciate Substituting TKA", Orthopaedic Team Member Course, American Association of Hip and Knee Surgeons Annual Meeting, Dallas, Texas, November 2, 2012.
- 154. "Current Diagnostic Algorithm and Guidelines for MoM Hips", UW Fall Visiting Professor Lectureship/Wisconsin Orthopedic Society Meeting, Madison, Wisconsin, October 12-13, 2012.
- 155. "Periprosthetic Infection: A 25 Year Learning Experience", UW Fall Visiting Professor Lectureship/Wisconsin Orthopedic Society Meeting, Madison, Wisconsin, October 12-13, 2012.
- 156. "Orthopedic Innovation: Opportunities, Challenges and Responsibilities", UW Fall Visiting Professor Lectureship/Wisconsin Orthopedic Society Meeting, Madison, Wisconsin, October 12-13, 2012.
- 157. "Prevalence of ALTR in Asymptomatic Metal on Metal Patients", The 2012 Summer Meeting of The Hip Society, Rochester, Minnesota, September 13-15, 2012.
- 158. "Uncemented vs. Cemented Stems in Two-stage Reimplantation for Infected TKA", 2012 Members Meeting of The Knee Society, Garden City, New York, September 6-8, 2012.
- 159. "Periprosthetic Infection: A 25-year Learning Experience", 2012 New England Orthopaedic Society Spring Meeting, Manchester, New Hampshire, June 1-3, 2012.
- 160. "OrthoCarolina: Excellence in Orthopaedics", 2012 New England Orthopaedic Society Spring Meeting, Manchester, New Hampshire, June 1-3, 2012.
- 161. "Current Diagnostic Algorithm and Guidelines for Metal-on-Metal Hips", 2012 New England Orthopaedic Society Spring Meeting, Manchester, New Hampshire, June 1-3, 2012.
- 162. "Current Diagnostic Algorithm and Guidelines for Metal-on-Metal Hips", Mayo Clinic Grand Rounds, Rochester, Minnesota, May 6-7, 2012.
- 163. "Periprosthetic Infection: A 25-year Learning Experience", Mayo Clinic Grand Rounds, Rochester, Minnesota, May 6-7, 2012.
- 164. "Fixed versus Mobile Knees", 65th Annual Meeting of Virginia Orthopaedic Society, Williamsburg, VA, May 4-6, 2012.
- 165. "Current Diagnostic Algorithm and Guidelines for Metal-on-Metal Hips", 65th Annual Meeting of Virginia Orthopaedic Society, Williamsburg, VA, May 4-6, 2012.
- 166. "Current Diagnostic Algorithm and Guidelines for Metal-on-Metal Hips", 3rd Annual Spring Hip and Knee Course, International Congress for Joint Reconstruction, Kiawah Island, April 13-15, 2012.
- 167. "Do High Flexion TKA's Preserve Range of Motion in Patients with High Preop Flexion?", 3rd Annual Spring Hip and Knee Course, International Congress for Joint Reconstruction, Kiawah Island, April 13-15, 2012.

- 168. "Debridement and Poly Exchange", Knee Society/AAHKS Specialty Day San Francisco, CA, February 11, 2012.
- 169. "Highlights of Knee Papers Presented at the American Association of Hip and Knee Surgeons Annual Meeting", Knee Society/AAHKS Specialty Day San Francisco, CA, February 11, 2012.
- 170. "How I Do a Revision TKA in 2012" Knee Society/AAHKS Specialty Day San Francisco, CA, February 11, 2012.
- 171. "Diagnosing the Failed Metal-on-Metal Hip Arthroplasty" Hip Society/AAHKS Specialty Day, San Francisco, CA, February 11, 2012.
- 172. "Efficacy of Perioperative Irrigation and Debridement for the Treatment of Periprosthetic Infection", Annual Meeting of the American Academy of Orthopaedic Surgeons, February 7-10, 2012.
- 173. "Is Poly Exchange Ever Appropriate?" (poster), Annual Meeting of the American Academy of Orthopaedic Surgeons, February 7-10, 2012.
- 174. "Do High Flexion TKA Preserve Range of Motion in Patients with High Preop Flexion?", Annual Meeting of the American Academy of Orthopaedic Surgeons, February 7-10, 2012.
- 175. "The Knee is Stiff at 4 weeks: Evaluation and Management", Annual Meeting of the American Academy of Orthopaedic Surgeons, February 7-10, 2012.
- 176. "Differential Diagnosis on the Painful THA", Annual Meeting of the American Academy of Orthopaedic Surgeons, February 7-10, 2012.
- 177. "Current Diagnostic Algorithm and Guidelines for Metal-on-Metal Hips", Annual Meeting of the American Academy of Orthopaedic Surgeons, February 7-10, 2012.
- 178. "Gap Balancing in Primary TKA', "Balancing the Valgus Knee", Annual Meeting of the American Academy of Orthopaedic Surgeons, February 7-10, 2012.
- 179. "Errors in Knee Alignment Using Fixed Resection Angles", Annual Meeting of the American Academy of Orthopaedic Surgeons, February 7-10, 2012.
- 180. "Are Metal Ion Levels a Useful Trigger for Surgical Intervention?", Annual Meeting of the American Academy of Orthopaedic Surgeons, February 7-10, 2012.
- 181. "AAHKS The Organization", AAHKS Emerging Leaders Retreat, Miami, FL December 9-10, 2011.
- 182. "Gap Balancing in Primary Total Knee Arthroplasty", Knee Continuum of Care Learning Center, Dallas, Texas, November 18, 2011.
- 183. "Arthroplasty Options for the Hip", Orthopaedic Team Member Course, American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, November 4, 2011.
- 184. "Arthroplasty Options for the Knee", Orthopaedic Team Member Course, American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, November 4, 2011.
- 185. "Patient Flow and Triage in a Joint Replacement Practice", Orthopaedic Team Member Course, American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, November 4, 2011.

- 186. "Efficacy of Perioperative Irrigation and Debridement for Prosthetic Infection" American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, November 4-6, 2011.
- 187. "Ion Levels and Synovial Fluid Markers: Helpful or Confusing", American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, November 4-6, 2011.
- 188. "Are Ion Levels A Surgical Trigger for Surgical Intervention in MoM Hips?" American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, November 4-6, 2011.
- 189. "Maintaining Balance While Leading", American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, November 4-6, 2011.
- 190. "Two-Stage Reimplantation", VuMedi Webinair. October 17, 2011.
- 191. "Revision TKA: Advanced Techniques" VuMedi Webinair. October 17, 2011.
- 192. "Why I Use Mobile Bearings", 31st Annual Oscar Miller Day Symposium: Current Concepts and Controversies in Total Hip and Knee Arthroplasty, Charlotte, North Carolina, October 14, 2011.
- 193. "Highly Cross-Linked Poly: Tried and True", 31st Annual Oscar Miller Day Symposium: Current Concepts and Controversies in Total Hip and Knee Arthroplasty, Charlotte, North Carolina, October 14, 2011.
- 194. "Managing Bone Defects in Revision TKA", 31st Annual Oscar Miller Day Symposium: Current Concepts and Controversies in Total Hip and Knee Arthroplasty, Charlotte, North Carolina, October 14, 2011.
- 195. "Periprosthetic Infection: A 25 Year Learning Experience", 31st Annual Oscar Miller Day Symposium: Current Concepts and Controversies in Total Hip and Knee Arthroplasty, Charlotte, North Carolina, October 14, 2011.
- 196. "Periprosthetic Infection: A 25-Year Learning Experience", Harvard Combined Grand Rounds, Boston, Massachusetts, October 12, 2011.
- 197. "Are Ion Levels a Useful Trigger for Surgical Intervention?", 2011 Members Meeting of the Hip Society, Columbus, Ohio, September 22-24, 2011.
- 198. "Efficacy of Perioperative Irrigation and Debridement for Prosthetic Infection", 2011 Members Meeting of the Knee Society, London, Ontario, Canada, September 13-17,2011
- 199. "Efficacy of Perioperative Irrigation and Debridement for Prosthetic Infection", 20th Century Orthopaedic Association, Teton Valley, Idaho, August 3-7, 2011.
 - 200. "Metal on Metal THA How did we get here? Clinical Literature Review", Controversies in Joint Replacement, Kiawah Island, SC, April 15-17, 2011.
 - 201. "Resurrection of the All Poly Tibia: A Look at the Data", Controversies in Joint Replacement, Kiawah Island, SC, April 15-17, 2011.
- 202. "Managing Ligamentous Instability in Total Knee Arthroplasty", Controversies in Joint Replacement, Kiawah Island, SC, April 15-17, 2011.

- 203. "The Case for Mobile Spacers", Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.
- 204. "Why I Resurface all Patellae in TKA", Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.
- 205. "Balancing the Valgus Knee", Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.
- 206. "Prevention and Treatment of Flexion Contracture", Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.
- 207. "Preoperative Planning", Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.
- 208. "Irrigation and Debridement for Periprosthetic Infections: Does the Organism Matter?", Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.
- 209. "Treatment of Pelvic Discontinuity with a Custom Triflange Acetabular Components", Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.
- 210. "Early Failure of ASR XL Total Hip Arthroplasty" (poster), Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.
- 211. "Highlights of the Hip Papers at AAHKS 2010", Hip Society/AAHKS Specialty Day, San Diego, CA, February 19, 2011
- 212. "Irrigation and Debridement for Periprosthetic Infections", Knee Society/AAHKS Specialty Day, San Diego, CA, February 19, 2011.
- 213. "Preoperative Planning", Knee Society/AAHKS Specialty Day, San Diego, CA, February 19, 2011.
- 214. "Prevention and Treatment of Flexion Contracture" Knee Society/AAHKS Specialty Day, San Diego, CA, February 19, 2011.
- 215. "AAHKS Survey Results: Impact of the Economic Downturn on Arthroplasty Surgeons", 20th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-7, 2010.
- 216. "Irrigation and Debridement for Periprosthetic Infections: Does the Organism Matter", 20th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-7, 2010.
- 217. "Risk of Spinout in more than 3000 Rotating Platform Knees at Average of 4 Years", 20th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-7, 2010.
- 218. "Early Failure of DePuy ASR XL Total Hip Arthroplasty", 20th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-7, 2010.
- 219. "Treatment of Pelvic Discontinuity with a Custom Triflange Acetabular Component" (poster presentation), 20th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-7, 2010.
- 220. "Irrigation and Debridement for Periprosthetic Infectinos: Does the Organism Matter?," Twentieth Century Orthopaedic Association, Hilton Head, SC, October 20-24, 2010.

- 221. "Joint Replacement Access in 2016: A Supply Side Crisis", Twentieth Century Orthopaedic Association, Hilton Head, SC, October 20-24, 2010.
- 222. "Treatment of Pelvic Discontinuity with a Custom Triflange Acetabular Component", The 2010 Hip Society Summer Meeting, New York, NY, September 23-25, 2010.
- 223. "Irrigation and Debridement for Periprosthetic Infections: Does the Organism Matter?", 2010 Members Meeting of the Knee Society, Rochester, MN, September 8-10, 2010.
- 224. "Revision TKA Techniques: An Algorithm for Surgical Success", 2010 ICJR Spring Hip and Knee Course, Kiawah Island, SC, April 16-18, 2010.
- 225. "Metal on Metal Clinical Success vs. Ions and ALVAL", 2010 ICJR Spring Hip and Knee Course, Kiawah Island, SC, April 16-18, 2010.
- 226. "Fate of Two-Stage Reimplantation after Failed Irrigation and Debridement for Periprosthestic Knee Infection," *Winner of Chitranjan Ranawat Award*. Knee Society Specialty Day, New Orleans, LA, March 13, 2010.
- 227. "Control-Matched Evaluation of Patellar Crepitus in Total Knee Arthroplasty", *Winner of John Insall Award*. Knee Society Specialty Day, New Orleans, LA, March 13, 2010.
- 228. "Revision TKA Techniques: An Algorithm for Surgical Success", Knee Society Specialty Day, New Orleans, LA, March 13, 2010.
- 229. "Stem Fixation in Revision TKA", Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 10-13, 2010.
- 230. "Prevention and Treatment of Flexion Contracture", Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 10-13, 2010.
- 231. "Gap Balancing in Primary Total Knee Arthroplasty", Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 10-13, 2010.
- 232. "Prevention and Management of Patellofemoral Instability in Total Knee Arthroplasty", Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 10-13, 2010.
- 233. "Balancing the Valgus Knee", Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 10-13, 2010.
- 234. "Fate of Two-Stage Reimplantation after Failed Irrigation and Debridement for Periprosthetic Knee Infection (poster presentation), Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 10-13, 2010.
- 235. "Gap Balancing in Primary Total Knee Arthroplasty", presented to Nicaragua Orthopedic Society, Managua, Nicaragua, January, 2010.
- 236. "The Stiff Total Knee: Prevention and Management", presented to Nicaragua Orthopedic Society, Managua, Nicaragua, January, 2010.
- 237. "Orthopaedic Innovation: Opportunities, Challenges and Responsibilities", Grand Rounds, University of Pittsburgh, Pittsburgh, Pennsylvania, November 11, 2009.

- 238. "The Fate of Two-Stage Reimplantation after Failed Irrigation and Debridement", Grand Rounds, University of Pittsburgh, Pittsburgh, Pennsylvania, November 11, 2009.
- 239. "Metal on Metal Clinical Success versus Ions and ALVAL", Grand Rounds, University of Pittsburgh, Pittsburgh, Pennsylvania, November 11, 2009.
- 240. "The Fate of Two-Stage Reimplantation after Failed Irrigation and Debridement". Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 6-8, 2009.
- 241. "Gap Balancing in Primary Total Knee Arthroplasty", AAOS/AAHKS Knee Arthroplasty: Uni,Total and Revision Insights, New Techniques, Rosemont, IL, October 22-24, 2009.
- 242. "Principles of Knee Implant Removal", AAOS/AAHKS Knee Arthroplasty: Uni,Total and Revision Insights, New Techniques, Rosemont, IL, October 22-24, 2009.
- 243. "Managing Tibial Bone Defects in Revision Total Knee Arthroplasty", AAOS/AAHKS Knee Arthroplasty: Uni,Total and Revision Insights, New Techniques, Rosemont, IL, October 22-24, 2009.
- 244. "Fate of Two-Stage Reimplantation After Failed I&D", The Knee Society Members' Meeting, Boston, MA, October 8-10, 2009.
- 245. "Comparative Analysis of Periarticular Osteolysis in Modern Total Hip Bearings: A Minimum Five Year Study", Closed Scientific Meeting of the Hip Society, Palo Alto, CA, September 24-26, 2009.
- 246. "Joint Replacement Access in 2016: A Supply Side Crisis", Penn State Orthopaedics 7th Annual Community Alumni Lecture", Hershey, PA, September 12, 2009.
- 247. "Diagnosis and Management of the Infected Total Joint", Penn State Orthopaedics 7th Annual Community Alumni Lecture", Hershey, PA, September 12, 2009.
- 248. "Orthopaedic Innovation Opportunities, Challenges and Responsibilities", Visiting Professor Vanderbilt University, Nashville, TN, May 29, 2009.
- 249. "Mobile Bearings: Do They Provide a Benefit?", Visiting Professor Vanderbilt University, Nashville, TN, May 29, 2009.
- 250. "Metal on Metal Clinical Success vs. Ions and ALVAL", Visiting Professor Vanderbilt University, Nashville, TN, May 29, 2009.
- 251. "Current Trends and Treatment for Periprosthetic Knee Fractures", AAHKS/AAOS Cutting Edge Developments and Controversies in Total Joint Arthroplasty", Philadelphia, PA, May 1-2, 2009.
- 252. "Metal on Metal Clinical Success vs. Ions and ALVAL", AAHKS/AAOS Cutting Edge Developments and Controversies in Total Joint Arthroplasty", Philadelphia, PA, May 1-2, 2009.
- 253. "Managing Ligamentous Instability in Total Knee Arthroplasty", AAHKS/AAOS Cutting Edge Developments and Controversies in Total Joint Arthroplasty", Philadelphia, PA, May 1-2, 2009.
- 254. "Mobile Bearings: Do They Provide a Benefit", American Academy of Orthopaedic Surgeons' Annual Meeting, Las Vegas, NV, February 24-28, 2009.

- 255. "Diagnosis and Management of the Infected Total Joint", American Academy of Orthopaedic Surgeons' Annual Meeting, Las Vegas, NV, February 24-28, 2009.
- 256. "Stem Fixation in Revision Total Knee Arthroplasty", Navigation: You Should Know How to Use it for Tough Cases in 2009", American Academy of Orthopaedic Surgeons' Annual Meeting, Las Vegas, NV, February 24-28, 2009.
- 257. "Managing Ligamentous Instability in Revision Total Knee Arthroplasty", American Academy of Orthopaedic Surgeons' Annual Meeting, Las Vegas, NV, February 24-28, 2009.
- 258. "Success of Modern Cementless Femoral Components in Young Patients: A Systemic Review and Meta-analysis of Total Hip Arthroplasty and Hip Resurfacing. Do the Results Justify Hip Resurfacing", American Academy of Orthopaedic Surgeons' Annual Meeting, Las Vegas, NV, February 24-28, 2009.
- 259. "Joint Replacement Access in 2016: A Supply Side Crisis" AAHKS/Knee Society Specialty Day, American Academy of Orthopaedic Surgeons, Las Vegas, NV,February 28, 2009.
- 260. "Painful TKA: Cost Effective Algorithm", International Congress for Joint Reconstruction, Orlando, FL, December 11-13, 2008.
- 261. "How to put in a Fully Coated Stem", International Congress for Joint Reconstruction, Orlando, FL, December 11-13, 2008.
- 262. "Computer Assisted Surgery 2008", International Congress for Joint Reconstruction, Orlando, FL, December 11-13, 2008.
- 263. "Revision TKA: A Surgical Algorithm", International Congress for Joint Reconstruction, Orlando, FL, December 11-13, 2008.
- 264. "Joint Replacement Access in 2016: A Supply Side Crisis", International Congress for Joint Reconstruction, Orlando, FL, December 11-13, 2008.
- 265. "Joint Replacement Access in 2016: A Supply Side Crisis",
- 266. "Success of Modern Cementless Femoral Components in Young Patients: A Systematic Review and Meta-analysis of Total Hip Arthroplasty and Hip Resurfacing. Do the Results Justify Hip Resurfacing?",
- 267. "The Fate of Acute MRSA Periprosthetic Infections Treated by Open Debridement and Retention of Components", Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 7-9, 2008.
- 268. "Mortality Following Revision Total Joint Arthroplasty: Is Age a Factor?" (poster), Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 7-9, 2008.
- 269. "Incidence of Noise in Two Modern Alumina-Alumina Total Hip Designs" (poster), Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 7-9, 2008.
- 270. "Fixation of Prosthetic Knee Components: Is Cementless Best for Young Patients?", Georgia Orthopaedic Society Annual Meeting, Sea Island, GA, October 16-19, 2008.
- 271. "Orthopaedic Innovation: Opportunities, Challenges and Responsibilities", Georgia Orthopaedic Society Annual Meeting, Sea Island, GA, October 16-19, 2008.

- 272. "Joint Replacement Access in 2016: A Supply Side Crisis", The Knee Society Interim Meeting, Denver, CO, October 2-4, 2008.
- 273. "The Fate of Acute MRSA Periprosthetic Infections Treated by Open Debridement and Retention of Components", The Knee Society Interim Meeting, Denver, CO, October 2-4, 2008.
- 274. "Joint Replacement Access in 2016: A Supply Side Crisis", Closed Scientific Meeting of the Hip Society, Chicago, IL, September 25-27, 2008.
- 275. "Mobile Bearings: Do They Provide a Benefit", American Academy of Orthopaedic Surgeons' Annual Meeting, San Francisco, CA, March 5-9, 2008.
- 276. "Gender Differences in Anterior Condylar Anatomy" (poster), American Academy of Orthopaedic Surgeons' Annual Meeting, San Francisco, CA, March 5-9, 2008.
- 277. "Aspiration as an Aid to the Diagnosis of Prosthetic Knee Instability" (poster), American Academy of Orthopaedic Surgeons' Annual Meeting, San Francisco, CA, March 5-9, 2008.
- 278. "Early Failures in Unicondylar Arthroplasty" (poster), American Academy of Orthopaedic Surgeons' Annual Meeting, San Francisco, CA, March 5-9, 2008.
- 279. "Why do Revision Total Knee Arthroplasties Fail", American Academy of Orthopaedic Surgeons' Annual Meeting, San Francisco, CA, March 5-9, 2008.
- 280. "Incomplete Seating of Press-fit Porous Coated Acetabular Components: The Fate of Zone 2 Radiolucencies", American Academy of Orthopaedic Surgeons' Annual Meeting, San Francisco, CA, March 5-9, 2008.
- 281. "Why Do Revision Total Hip Arthroplasties Fail", American Academy of Orthopaedic Surgeons' Annual Meeting, San Francisco, CA, March 5-9, 2008.
- 282. "Monoblock Femoral Revision", Hip Society Specialty Day, San Francisco, CA, March 8, 2008.
- 283. "Computer Assisted Surgery 2007. Where Are We Now", Advances in Surgical Technology, New York City, New York, November 29-December 1, 2007.
- 284. "Stem Fixation in Revision TKA", Advances in Surgical Technology, New York City, New York, November 29-December 1, 2007.
- 285. "Why Revision Total Hip Arthroplasty Fails", American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, November 2-4, 2007.
- 286. "Why Do Revision Total Knee Arthroplasties Fail?", American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, November 2-4, 2007.
- 287. "Are Mobile Bearing Knees Worth the Premium?: Mobile Bearing Knees Provide No Early Clinical Benefit at Minimum Five-year Follow-up" (poster), American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, November 2-4, 2007.
- 288. "Incomplete Seating of Press-fit Porous Coated Acetabular Components: The Fate of Zone 2 Radiolucencies" (poster), American Association of Hip and Knee Surgeons' Annual Meeting, Dallas, Texas, November 2-4, 2007.

- 289. "Computer Assisted Surgery 2007: Where Are We Now?", Innovative Techniques and Technology in Joint Replacement Surgery, Napa Valley, CA; October 11-14, 2007.
- 290. "Hip Instability, Preventio and Treatment", Innovative Techniques and Technology in Joint Replacement Surgery, Napa Valley, CA; October 11-14, 2007.
- 291. "Why Revision Total Hips Fail", Closed Meeting of the Hip Society, Pasadena, CA, September 21-22, 2007.
- 292. "Managing Ligamentous Instability in Total Knee Arthroplasty", Technological Advances in Revision Surgery, Pinehurst, NC, September 13-16, 2007.
- 293. "Ceramic Bearings: The Clinical Track Record and New Issues", Transforming Orthopaedics: Improving Outcomes through Technology, Park City, UT, March 14-18, 2007.
- 294. "When CAS is the only Alternative", Transforming Orthopaedics: Improving Outcomes through Technology, Park City, UT, March 14-18, 2007.
- 295. "Acetabular Revision: Hemispherical Cups", Transforming Orthopaedics: Improving Outcomes through Technology, Park City, UT, March 14-18, 2007.
- 296. "Current Trends and Treatment for Periprosthetic Knee Fractures", Transforming Orthopaedics: Improving Outcomes through Technology, Park City, UT, March 14-18, 2007.
- 297. "The Infected TKA", Transforming Orthopaedics: Improving Outcomes through Technology, Park City, UT, March 14-18, 2007.
- 298. "Mobile Bearings: Do they provide a Benefit?", Combined Knee Society/AAHKS Specialty Day, San Diego, CA, February 16, 2007.
- 299. "Prevalence of Instability in Septic Revision THA" (poster), American Academy of Orthopaedic Surgeons, San Diego, CA, February, 2007.
- 300. "Modular Polyethylene Exchange for Wear and Osteolysis in PFC Total Knees" (poster), American Academy of Orthopaedic Surgeons, San Diego, CA, February, 2007.
- 301. "Mini Incision Hip Replacement: Mandate or Marvel", Medical Education Collaborative, San Diego, CA, February 14, 2007.
- 302. "Challenging Case in Total Joint Replacement: Paying Attention to the Details" (symposium), Medical Education Collaborative, San Diego, CA, February 14, 2007.
- 303. "Orthopedic Innovations: Opportunities, Challenges and Responsibilities", Atlanta Orthopaedic Society, Atlanta, GA, January 8-9, 2007.
- 304. "Surgical Treatment of Flexion Contractures Following Total Knee Arthroplasty", American Association of Hip and Knee Surgeons' Annual Meeting, Dallas TX, November 3-5, 2006.
- 305. "The Obesity Epidemic: Its Effect on Total Joint Arthroplasty", American Association of Hip and Knee Surgeons' Annual Meeting, Dallas TX, November 3-5, 2006.

- 306. "Prevalence of Instability in Septic Revision Hip Arthroplasty", American Association of Hip and Knee Surgeons' Annual Meeting, Dallas TX, November 3-5, 2006.
- 307. "The Effect of Polyethylene Sterilization on Wear-Related Failures: A Comparative Study Performed with First and Second and Generation TKA Systems", American Association of Hip and Knee Surgeons' Annual Meeting, Dallas TX, November 3-5, 2006.
- 308. "Modular Polyethylene Exchange for Wear and Osteolysis in PFC Total Knees" (poster), American Association of Hip and Knee Surgeons' Annual Meeting, Dallas TX, November 3-5, 2006.
- 309. "Functional Improvement of Articulating Spacers vs. Static Spacers in Infected TKA" (poster), American Association of Hip and Knee Surgeons' Annual Meeting, Dallas TX, November 3-5, 2006.
- 310. "Alternatives to the Medicare System. A Plan to Maintain Access", Washington Orthopaedic Society, Arlington, VA, October 9, 2006.
- 311. "The Obesity Epidemic Its Effect on Total Joint Arthroplasty", Washington Orthopaedic Society, Arlington, VA, October 9, 2006.
- 312. "Modular Polyethylene Exchange for Wear and Osteolysis in PFC Total Knees", Knee Society Interim Meeting, Alexandria, Virginia, September 28-30, 2006.
- 313. "The Effect of Polyethylene Sterilization on Wear Related Failures with First and Second Generation PFC Total Knees", Knee Society Interim Meeting, Alexandria, Virginia, September 28-30, 2006.
- 314. "Ceramic-Ceramic Who Gets It?", Primary and Revision Total Joint Arthroplasty: Current Concepts Symposium, Mont Tremblant, Quebec, September 14-17, 2006.
- 315. "Hip Instability Prevention and Treatment", Primary and Revision Total Joint Arthroplasty: Current Concepts Symposium, Mont Tremblant, Quebec, September 14-17, 2006.
- 316. "Design Considerations for Mobile Bearing Knees", Primary and Revision Total Joint Arthroplasty: Current Concepts Symposium, Mont Tremblant, Quebec, September 14-17, 2006.
- 317. "Prevalence of Instability in Septic Revision THA", Hip Society Annual meeting, Iowa City, Iowa, September 7-9, 2006.
- 318. "Ceramic Ceramic Who Gets It? Pros/Cons", Contemporary Techniques in Total Hip and Knee Arthroplasty, Nisswa, MN, June 15-18, 2006.
- 319. "Managing Ligamentous Instability In Total Knee Arthroplasty", Contemporary Techniques in Total Hip and Knee Arthroplasty, Nisswa, MN, June 15-18, 2006.
- 320. "The Stiff TKA: Prevention and Management", Advanced Techniques in Total Joint Replacement: Indications, Techniques and Pearls, White Sulphur Springs, WV, May 4-6, 2006.
- 321. "Orthopaedic Innovation: Opportunities, Challenges and Responsibilities", Advanced Techniques in Total Joint Replacement: Indications, Techniques and Pearls, White Sulphur Springs, WV, May 4-6, 2006.
- 322. "Outcome Comparison of Partial and Full Component Revision TKA", Advanced Techniques in Total Joint Replacement: Indications, Techniques and Pearls, White Sulphur Springs, WV, May 4-6, 2006.

- 323. "The Infected Total Knee", Advanced Techniques in Total Joint Replacement: Indications, Techniques and Pearls, White Sulphur Springs, WV, May 4-6, 2006.
- 324. "Ligamentous Balancing in Computer Assisted Surgery", Advanced Techniques in Total Joint Replacement: Indications, Techniques and Pearls, White Sulphur Springs, WV, May 4-6, 2006.
- 325. "Patient Selection and Contraindications of TKA", Advanced Techniques in Total Joint Replacement: Indications, Techniques and Pearls, White Sulphur Springs, WV, May 4-6, 2006.
- 326. "Early Failures in Total Knee Arthroplasty", Impact of Revolving Technology on Hip and Knee Arthritis and Reconstruction, Ponte Vedra, FL, April 20-23, 2006.
- 327. "Extensively Coated Stems in Revision THA", Impact of Revolving Technology on Hip and Knee Arthritis and Reconstruction, Ponte Vedra, FL, April 20-23, 2006.
- 328. "Fixed vs. Mobile Bearing Knees", Impact of Revolving Technology on Hip and Knee Arthritis and Reconstruction, Ponte Vedra, FL, April 20-23, 2006.
- 329. "Design Considerations for Mobile Bearing Knees", Impact of Revolving Technology on Hip and Knee Arthritis and Reconstruction, Ponte Vedra, FL, April 20-23, 2006.
- 330. "Early Failures in Total Knee Arthroplasty", Transforming Orthopedics: Advances in Technology and Techniques, Vail, CO, February 8-12, 2006
- 331. "Hip Instability Prevention and Treatment", Transforming Orthopedics: Advances in Technology and Techniques, Vail, CO, February 8-12, 2006
- 332. "Modularity in Fixed Bearing Knees", Transforming Orthopedics: Advances in Technology and Techniques, Vail, CO, February 8-12, 2006.
- 333. "The Painful THA: Diagnosis and Remedy", Transforming Orthopedics: Advances in Technology and Techniques, Vail, CO, February 8-12, 2006.
- 334. "Ligamentous Balancing in Computer Assisted Surgery", Innovative Solutions in Total Hip Arthroplasty, Dallas TX, November 17-18, 2005.
- 335. "Minimal Incision Hip Replacement. Mandate or Marvel", Innovative Solutions in Total Hip Arthroplasty, Dallas TX, November 17-18, 2005.
- 336. "Alternatives to the Medicare System A Plan to Maintain Access", Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 4-6, 2005.
- 337. "Prevalence of Dislocation in Rotating Platform Knee Arthroplasty (poster)", Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 4-6, 2005.
- 338. "Hip Instability Prevention and Treatment", "Polyethylene in the 21st Century", 25th Annual Oscar Miller Day Symposium, Charlotte, NC, October 21, 2005.
- 339. "Ligamentous Balancing in Computer-Assisted Surgery", Tissue Sparing Solutions, Total Knee Arthroplasty Learning Center, Tampa, FL, October 15, 2005.
- 340. "When CAS is the Only Alternative", Tissue Sparing Solutions, Total Knee Arthroplasty Learning Center, Tampa, FL, October 15, 2005.

- 341. "Mini Incision Hip: Mandate or Marvel", Primary and Revision Total Joint Arthroplasty: Current Concepts, Muskoka, Ontario, Canada, September 15-18, 2005.
- 342. "Uncemented Sockets How to Get Them In Right", Primary and Revision Total Joint Arthroplasty: Current Concepts, Muskoka, Ontario, Canada, September 15-18, 2005.
- 343. "Orthopedic Innovation, Opportunities, Challenges and Responsibilities", Primary and Revision Total Joint Arthroplasty: Current Concepts, Muskoka, Ontario, Canada, September 15-18, 2005.
- 344. "When CAS is the Only Alternative", Knee Society Interim Meeting, New York, NY, September 8-10, 2005.
- 345. "Ligamentous Balancing in Computer Assisted Surgery", 2005 Tissue Sparing Solutions, Orthopaedic Learning Center, Rosement, IL, June 27, 2005.
- 346. "Posterior Cruciate Substituting TKA: Design Characteristics and Results", Current Controversies in Knee Arthroplasty, Lenox Hill Hospital, New York, NY, June 24, 2005.
- 347. "Current Trends and Treatment for Periprosthetic Knee Fractures", Current Controversies in Knee Arthroplasty, Lenox Hill Hospital, New York, NY, June 24, 2005.
- 348. "Prevention and Treatment of Flexion Contracture", Current Controversies in Knee Arthroplasty, Lenox Hill Hospital, New York, NY, June 24, 2005.
- 349. "Bilateral Total Knee Replacement. Is It Worth the Risk?", Current Controversies in Knee Arthroplasty, Lenox Hill Hospital, New York, NY, June 24, 2005.
- 350. "Orthopedic Innovation: Opportunities, Challenges and Responsibilities", Advanced Technologies in Knee Arthroplasty Fellowship Session, Anderson Orthopedic Research Institute, Alexandria, VA, June 3, 2005.
- 351. "Orthopaedic Innovation: Opportunities, Challenges and Responsibilities", Annual Meeting of Florida Orthopedic Society, Sarasota, FL May 20-21, 2005.
- 352. "What's Important in Cementless Acetabular Cup Design",
- 353. "Metaphyseal Engaging Stems in Revision Total Knee Arthroplasty",
- 354. "Anatomy of Cemented Stem Failure", DePuy Orthopaedic Sales Training Course, Charlotte, NC May 12-13, 2005.
- 355. "Early Failures in Total Knee Arthroplasty", DePuy Orthopaedic Sales Training Course, Charlotte, NC May 12-13, 2005.
- 356. "Use of Articulating Spacers in Revision Total Knee Arthroplasty for Sepsis", DePuy Orthopaedic Sales Training Course, Charlotte, NC May 12-13, 2005.
- 357. "Extensively Coated Stems in Revision Total Hip Arthroplasty", DePuy Orthopaedic Sales Training Course, Charlotte, NC May 12-13, 2005.

- 358. "A Retrospective Analysis of the Efficacy of Autologous Platelet Gel in Total Knee Arthroplasty", Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 21-27, 2005.
- 359. "The Effect of Immediate Weight Bearing on a Tapered Cementless Stem," Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 21-27, 2005.
- 360. "Failure of Hemi-Resurfacing for AVN in Young Patients" (poster), Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 21-27, 2005.
- 361. "Two-Stage Reimplantation for Periprosthetic Knee Infection Involving Resistant Organisms" (poster), Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 21-27, 2005.
- 362. "Innovation in Orthopaedics Challenges & Opportunities", DePuy Education Theater, Washington, DC, February 23, 2005.
- 363. "Bone Loss in Primary Total Knee Arthroplasty", Symposium Z, American Academy of Orthopaedic Surgeons, Washington, DC, February 21-27, 2005.
- 364. "Gap Balancing in Primary Total Knee Arthroplasty", Symposium Z, American Academy of Orthopaedic Surgeons, Washington, DC, February 21-27, 2005.
- 365. "Management of Periarticular Knee Hardware", Symposium Z, American Academy of Orthopaedic Surgeons, Washington, DC, February 21-27, 2005.
- 366. "Mini Incision TKA in Opposition", Advanced Technologies in Knee Arthroplasty, Anderson Clinic Learning Center, Alexandria, VA, December 2-3, 2004.
- 367. "Managing Bone Defects in Revision TKA", Advanced Technologies in Knee Arthroplasty, Anderson Clinic Learning Center, Alexandria, VA, December 2-3, 2004.
- 368. "Factors Influencing Wear and Osteolysis in PFC Modular Total Knees", Advanced Technologies in Knee Arthroplasty, Anderson Clinic Learning Center, Alexandria, VA, December 2-3, 2004.
- 369. "Failure of Hemi-Resurfacing for AVN in Young Patients", 14th Annual Meeting American Association of Hip and Knee Surgeons", Dallas, TX, November 5-7, 2004.
- 370. "Mini Incision Hip Replacement Mandate or Marvel", Total Joint Replacement: Hip and Knee, Charlottesville VA, October 21-22, 2004.
- 371. "Extensively Coated Stems In Revision THA", Total Joint Replacement: Hip and Knee, Charlottesville VA, October 21-22, 2004.
- 372. "Polyethylene in the 21st Century", Total Joint Replacement: Hip and Knee, Charlottesville VA, October 21-22, 2004.
- 373. "Outcome Comparison of Partial and Full Component Revision TKA", The Knee Society 21st Annual Interim Meeting, Jackson Hole, WY, September 9-11, 2004.
- 374. "Mini Incision Posterior", Maximizing Performance in the High Demand Patient, Chicago, IL, July 15-17, 2004.

- 375. "Indications for Fixed Bearing Knees", Maximizing Performance in the High Demand Patient, Chicago, IL, July 15-17, 2004.
- 376. "Extensively Coated Stems in Revision THA", Masters Series Revision Hip and Knee Course, Orthopaedic Learning Center, Rosemont, IL, June 28-29, 2004.
- 377. "Metaphyseal Engaging Stems in Revision Total Knee Arthroplasty", Masters Series Revision Hip and Knee Course, Orthopaedic Learning Center, Rosemont, IL, June 28-29, 2004.
- 378. "Hip Instability Prevention and Treatment", Masters Series Revision Hip and Knee Course, Orthopaedic Learning Center, Rosemont, IL, June 28-29, 2004.
- 379. "Patient Selection and Contraindications of UKA", Masters Series Revision Hip and Knee Course, Orthopaedic Learning Center, Rosemont, IL, June 28-29, 2004.
- 380. "Early Failures in Total Knee Arthroplasty", DePuy Orthopaedic Sales Training course, Charlotte, NC June 9-11, 2004.
- 381. "Metaphyseal only Engaging Stems in Revision TKA", DePuy Orthopaedic Sales Training course, Charlotte, NC June 9-11, 2004.
- 382. "Anatomy of Cemented Stem Failure", DePuy Orthopaedic Sales Training course, Charlotte, NC June 9-11, 2004.
- 383. "Extensively Coated Stems in Revision THA", DePuy Orthopaedic Sales Training course, Charlotte, NC June 9-11, 2004.
- 384. "What's Important in Cementless Acetabular Cup Designs", DePuy Orthopaedic Sales Training course, Charlotte, NC June 9-11, 2004.
- 385. "What's Important in Cementless Acetabular Cup Design", Latin American Forum 2004, Miami, FL, June 6-7, 2004.
- 386. "Polyethylene: The Whole Story", Maximizing Performance in Total Joint Replacement, Coconut Grove, FL, May 13-15, 2004.
- 387. "Factors Influencing Wear and Osteolysis in PFC Modular Total Knees", Combined Knee Society/AAHKS Specialty Day meeting, San Francisco, CA March 10-14, 2004.
- 388. "Factors Influencing Wear and Osteolysis in PFC Modular Total Knees", 71st Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, March 10-14, 2004.
- 389. "Isolated Patella Revision Following Total Knee Arthroplasty", 71st Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, March 10-14, 2004.
- 390. "Morbidity of Modular Polyethylene Exchange for Excessive Wear and Osteolysis", 71st Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, March 10-14, 2004.
- 391. "Indications for Fixed Bearing Knees", Techniques and Issues in Orthopaedics, Whistler, British Columbia, February 11-15, 2004.
- 392. "Extensively Coated Stems in Revision THA", Techniques and Issues in Orthopaedics, Whistler, British Columbia, February 11-15, 2004.

- 393. "Making Stems Work in Revision TKA", Techniques and Issues in Orthopaedics, Whistler, British Columbia, February 11-15, 2004.
- 394. "Underestimation of Osteolysis in Posterior Stabilized Total Knee Arthroplasty", American Association of Hip and Knee Surgeons, Dallas, TX, October 31-Nov. 2, 2003.
- 395. "Factors Influencing Wear and Osteolysis in PFC Modular Total Knees", American Association of Hip and Knee Surgeons, Dallas, TX, October 31-Nov. 2, 2003.
- 396. "Morbidity of Modular Polyethylene Exchange for Excessive Wear and Osteolysis", American Association of Hip and Knee Surgeons, Dallas, TX, October 31-Nov. 2, 2003.
- 397. "Early Failures in Total Hip Arthroplasty" (poster), American Association of Hip and Knee Surgeons, Dallas, TX, October 31-Nov. 2, 2003.
- 398. "New Advances in the Surgical Treatment of Arthritis", Orthopedic Update for the Primary Care Provider, Charlotte, NC, October 31, 2003.
- 399. "Factors Influencing Wear and Osteolysis in PFC Modular Total Knees", Knee Society Interim Meeting, Chicago, IL, August 27-29, 2003.
- 400. "Indications for Fixed Bearing Knees", Current Issues in Orthopaedics, Bellaire, Michigan, August 21-24, 2003.
- 401. "What's Important in Cementless Acetabular Cup Design", Current Issues in Orthopaedics, Bellaire, Michigan, August 21-24, 2003.
- 402. "Early Failures in Total Knee Arthroplasty", Current Issues in Orthopaedics, Bellaire, Michigan, August 21-24, 2003.
- 403. "Posterolateral Approach", Current Issues in Orthopaedics, Bellaire, Michigan, August 21-24, 2003.
- 404. "Avoiding Leg Length Discrepancy in Total Hip Arthroplasty", Current Issues in Orthopaedics, Bellaire, Michigan, August 21-24, 2003.
- 405. "Hip Instability Prevention and Treatment", Orthopaedic Sales Training, Advanced Sales School, Charlotte, NC, June 18-20, 2003.
- 406. "Indications for Fixed Bearing Knees", Orthopaedic Sales Training, Advanced Sales School, Charlotte, NC, June 18-20, 2003.
- 407. "Prosthetic Management of Developmental Dysplasia of the Hip", Orthopaedic Sales Training, Advanced Sales School, Charlotte, NC, June 18-20, 2003.
- 408. "Making Stems Work in Revision TKA", Advanced Technologies in Total Hip Arthroplasty, Anderson Orthopaedic Research Institute, Alexandria, VA, June 5-6, 2003.
- 409. "Hip Instability Prevention and Treatment", Advanced Technologies in Total Hip Arthroplasty, Anderson Orthopaedic Research Institute, Alexandria, VA, June 5-6, 2003.
- 410. "Mini Incision TKA: In Opposition", Current Issues in Orthopaedics, Grand Bahama Island, May 15-18, 2003.

- 411. "Hip Instability Prevention and Treatment", Current Issues in Orthopaedics, Grand Bahama Island, May 15-18, 2003.
- 412. "Use of Articulating Spacers in Revision TKA for Sepsis", Current Issues in Orthopaedics, Grand Bahama Island, May 15-18, 2003.
- 413. "Metaphyseal Engaging Stems in Revision Total Knee Arthroplasty", Current Issues in Orthopaedics, Grand Bahama Island, May 15-18, 2003.
- 414. "Dealing with the Deficient Acetabulum", Current Issues in Orthopaedics, Grand Bahama Island, May 15-18, 2003.
- 415. "Hip Instability: Prevention and Treatment", Current Issues in Orthopaedics, Grand Bahama Island, May 15-18, 2003.
- 416. "Dealing with the Deficient Acetabulum", Masters Series Revision Course, Rosemont, IL, April 14, 2003.
- 417. "Consensus Building in Total Knee Arthroplasty", Advances in Orthopaedic Surgery, Vail, CO, March 12-19, 2003.
- 418. "Extensively Coated Stems in Revision Total Hip Arthroplasty", Advances in Orthopaedic Surgery, Vail, CO, March 12-19, 2003.
- 419. "Metaphyseal Engaging Stems in Total Knee Arthroplasty", Advances in Orthopaedic Surgery, Vail, CO, March 12-19, 2003.
- 420. "Dealing with the Deficient Acetabulum", Hip Society Specialty Day, New Orleans, LA, February 8, 2003.
- 421. "Use of Articulating Spacers in Revision Total Knee Arthroplasty for Sepsis", Knee Society Specialty Day, New Orleans, LA, February 8, 2003.
- 422. "Defining the Role of Trochanteric Osteotomy in Revision Total Hip Arthroplasty", Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, February 4-9, 2003.
- 423. "Extensively Coated Stems in Revision THA", Current Concepts in Joint Replacement, Orlando, Florida, December 11-14, 2002.
- 424. "Osteonecrosis Not Quite a Walk in the Park", Current Concepts in Joint Replacement, Orlando, Florida, December 11-14, 2002.
- 425. "Fine Tuning the Use of Tensors in Total Knee Arthroplasty", Current Concepts in Joint Replacement, Orlando, Florida, December 11-14, 2002.
- 426. "Consensus Building in Revision THA", Orthopaedic Learning Center, Rosemont, IL, November 21-23, 2002.
- 427. "Metaphyseal Only Engaging Stems in Revision Total Knee Arthroplasty", Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 1-3, 2002.

- 428. "Underestimation of Osteolysis in Posterior Stabilized Total Knee Arthroplasty" (poster), Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 1-3, 2002.
- 429. "Early Experience with Lateralized Modular Acetabular Liners" (poster), Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 1-3, 2002.
- 430. "Management of Femoral Deficiency in Revision THA", Total Hip and Knee Arthroplasty Learning Center, New England Baptist Hospital, Boston, MA, October 17-18, 2002.
- 431. "Preventation and Treatment of Hip Instability", Advances in Orthopaedics: Design, Materials, Surgical Techniques and Practice Issues, Hilton Head, SC, October 2-6, 2002.
- 432. "Metaphyseal Only Engaging Stems in Revision Total Knee Arthroplasty", Knee Society Interim Meeting, Philadelphia, PA, September 19-21, 2002.
- 433. "Managing Bone Defects in Revision TKA", Current Issues in Total Joint Replacement, Team Howmedica Osteonics, Kohler, WI, September 6, 2002.
- 434. "Patella Inversion Method of Exposure in Revision TKA", Current Issues in Total Joint Replacement, Team Howmedica Osteonics, Kohler, WI, September 6, 2002.
 - 435. "Anatomy of Cemented Stem Failure", Summit Cemented Stem Launch, DePuy, Atlanta, GA, September 5, 2002.
 - 436. "Hip Instability Prevention and Treatment", Advanced Sales Training Course, DePuy, Charlotte, NC, July 25-26, 2002.
 - 437. "Indications for Fixed Bearing Knees," Advanced Sales Training Course, DePuy, Charlotte, NC, July 25-26, 2002.
 - 438. "Cemented Stems: A Surgeon's Perspective", Advanced Sales Training Course, DePuy, Charlotte, NC, July 25-26, 2002.
- 439. "Avoiding Leg Length Discrepancy in Total Hips", Fellows Hip Arthroplasty Learning Center, The Anderson Clinic, Alexandria, VA, June 13, 2002.
- 440. "Patella Inversion Method of Exposure in Revision TKA", Utah Hip and Knee Arthroplasty Seminar, Snowbird UT, March 14-16, 2002.
- 441. "Dealing with the Deficient Acetabulum", Utah Hip and Knee Arthroplasty Seminar, Snowbird UT, March 14-16, 2002.
- 442. "Patient Selection and Contraindications of Unicondylar Arthroplasty", Utah Hip and Knee Arthroplasty Seminar, Snowbird UT, March 14-16, 2002.
- 443. "Hip Instability Prevention and Treatment", Utah Hip and Knee Arthroplasty Seminar, Snowbird UT, March 14-16, 2002.
- 444. "Cementless Revision Total Hip Arthroplasty Without Allograft" (poster), American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, TX, February 13-16,2002.
- 445. "Diagnosis and Management of the Infected THA", Instructional Courses, American Academy of Orthopedic Surgeons, Dallas, TX, February 13-16, 2002.

- 446. "Making Stems Work", Instructional Courses, American Academy of Orthopedic Surgeons, Dallas, TX, February 13-16, 2002.
- 447. "Managing Bone Defects in Revision TKA", Instructional Courses, American Academy of Orthopedic Surgeons, Dallas, TX, February 13-16, 2002.
- 448. "Avoiding Leg Length Discrepancy in Total Hip Arthroplasty", The North American Hip and Knee Symposium, Beaver Creek, Colorado, January 31-February 2, 2002.
- 449. "Dealing with the Deficient Acetabulum", The North American Hip and Knee Symposium, Beaver Creek, Colorado, January 31-February 2, 2002.
- 450. "Polyethylene Wear in Total Knee Arthroplasty", Techniques in Total Knee Arthroplasty, Orthopaedic Learning Center, Rosemont, IL, October 26-28, 2001.
- 451. "Patient Selection and Contraindications of Unicondylar Arthroplasty," Techniques in Total Knee Arthroplasty, Orthopaedic Learning Center, Rosemont, IL, October 26-28, 2001.
- 452. "Acetabular Planning and Positioning", Contemporary Issues in Total Joint Arthroplasty and Orthopaedic Orthobiologics, Hattiesburg, Mississippi, October 18-20, 2001.
- 453. "Bipolar Reconstruction for Recurrent Instability of the Hip", 31st Annual Fall Hip Course, Boston, MA, October 3-6, 2001.
- 454. "Femoral Rotation, Getting It Right", "Prevention and Treatment of the Unstable Total Hip", Concepts and Controversies in Sports Medicine, Pinehurst, NC, September 28-29, 2001.
- 455. "Extensively Coated Stems in Revision Total Hip Arthroplasty", Masters Series Revision Course, Rosemont, Illinois, April 26-28, 2001.
- 456. "Dealing with the Deficient Acetabulum", Masters Series Revision Course, Rosemont, Illinois, April 26-28, 2001.
- 457. "Early Failures in Total Knee Arthroplasty", Knee Society Specialty Day, American Academy of Orthopaedic Surgeons, San Francisco, CA, March 3, 2001.
- 458. "Premature Wear and Osteolysis in PFC Modular Total Knees", Annual Meeting of American Academy of Orthopaedic Surgeons, San Francisco, CA, February 28-March 4, 2001.
- 459. "White Blood Cell Count Analysis in Revision Total Knee Aspirates", Annual Meeting of American Academy of Orthopaedic Surgeons, San Francisco, CA, February 28-March 4, 2001.
- 460. "Early Failures in Total Knee Arthroplasty" (poster), Annual Meeting of American Academy of Orthopaedic Surgeons, San Francisco, CA, February 28-March 4, 2001
- 461. "Press-Fit Fixation of a Porous Coated Acetabular Component Without Screws in Primary Total Hip Arthroplasty" (poster), Annual Meeting of American Academy of Orthopaedic Surgeons, San Francisco, CA, February 28-March 4, 2001
- 462. "Early Failures in Total Knee Arthroplasty", William Beaumont Hospital, Detroit, Michigan, January 22, 2001.

- 463. "What's Important in Cementless Acetabular Cup Design", William Beaumont Hospital, Detroit, Michigan, January 22, 2001.
- 464. "Hip Instability" William Beaumont Hospital, Detroit, Michigan, January 22, 2001.
- 465. "Treatment of Hip Instability", Discussion of Informed Consent and Patient Perception of Revision Total Hip Arthroplasty, 2000 AAOS Revision Hip Reconstruction Course, Orthopaedic Learning Center, Rosemont, IL., November 30-December 2, 2000.
- 466. "What's Important in Cementless Acetabular Cup Design", Total Hip and Knee Arthroplasty, New England Baptist Hospital, Boston, MA, November 16-17, 2000.
- 467. "Early Failures in Total Knee Arthroplasty", Total Hip and Knee Arthroplasty, New England Baptist Hospital, Boston, MA, November 16-17, 2000.
- 468. "Early Failures in Total Knee Arthroplasty", AAHKS Annual Meeting, Dallas, TX, November 3-5, 2000.
- 469. "Bipolar Reconstruction for Recurrent Instability of the Hip", AAHKS Annual Meeting, Dallas, TX, November 3-5, 2000.
- 470. "White Blood Cell Count Analysis in Revision Total Knee Aspirates", AAHKS Annual Meeting, Dallas, TX, November 3-5, 2000.
- 471. "Incomplete Seating of Press-Fit Porous Coated Acetabular Components the Fate of Zone 2 Radiolucencies", AAHKS Annual Meeting, Dallas, TX, November 3-5, 2000.
- 472. "Polyethylene Exchange Only for Prosthetic Knee Instability", Concepts and Controversies in Arthroplasty and Sports Medicine, Pinehurst,NC, October 26-28, 2000.
- 473. "Mechanisms of Failure in Cemented THA", Concepts and Controversies in Arthroplasty and Sports Medicine, Pinehurst, NC, October 26-28, 2000.
- 474. "Effects of Surgical Technique on Condylar Lift-off", Knee Society Interim Meeting, Boston, Massachusetts, September 14-16, 2000.
- 475. "Early Failures in Total Knee Arthroplasty", Knee Society Interim Meeting, Boston, Massachusetts, September 14-16, 2000.
- 476. "Premature Wear and Osteolysis in PFC Modular Total Knees", Knee Society Interim Meeting, Boston, Massachusetts, September 14-16, 2000.
- 477. "White Blood Cell Counts in Revision Total Knee Aspirates", Joint Replacement 2000: Optimizing Outcomes", Pinehurst, North Carolina, May 11-13, 2000.
- 478. "Primary Hip Arthroplasty Focus on the Bearing Surface", Joint Replacement 2000: Optimizing Outcomes, Pinehurst, North Carolina, May 11-13,2000.
- 479. "Surgical Treatment of Prosthetic Hip Instability" (poster), 67th Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida, March 15-19, 2000.
- 480. "White Blood Cell Count in Revision Total Knee Aspirates" (poster), 67th Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida, March 15-19, 2000.

- 481. "Failure of Bloodless Revision of the Unstable Total Hip", 67th Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida, March 15-19, 2000.
- 482. "Patella Inversion Method for Exposure in Revision Total Knee Arthroplasty", 67th Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida, March 15-19, 2000.
- 483. "A Comparison of Articulating vs. Static Spacers in Revision Total Knee Arthroplasty", 67th Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida, March 15-19, 2000.
- 484. "Cold Therapy in Total Knee Arthroplasty", "A Comparison of Articulating vs.Static Spacers in Revision Total Knee Arthroplasty", The Knee Society Specialty Day, Orlando, Florida, March 18, 2000.
- 485. "Uncemented Sockets: How to Get Them in Right", Contemporary Techniques and Issues in Orthopaedics, Snowmass, Colorado, January 29-February 6, 2000.
- 486. "Tibial Baseplate Locking Mechanism", Contemporary Techniques and Issues in Orthopaedics, Snowmass, Colorado, January 29-February 6, 2000.
- 487. "Surgical Decision Making in Unicompartmental Disease of the Knee", Contemporary Techniques and Issues in Orthopaedics, Snowmass, Colorado, January 29-February 6, 2000.
- 488. "Why I Press Fit Cups Without Adjuvant Fixation", Contemporary Techniques and Issues in Orthopaedics, Snowmass, Colorado, January 29-February 6, 2000.
- 489. "Cementless Acetabular Reconstruction in Congenital Dislocated Hips Without Structural Bone Grafting", American Association of Hip and Knee Surgeons, Dallas, Texas, November 12-14, 1999.
- 490. "A Comparison of Articulating vs. Static Spacers in Revision Total Knee Arthroplasty for Sepsis", American Association of Hip and Knee Surgeons, Dallas, Texas, November 12-14, 1999.
- 491. "Underestimation of Pelvic Osteolysis in Cementless Acetabular Reconstruction", American Association of Hip and Knee Surgeons, Dallas, Texas, November 12-14, 1999.
- 492. "Press-fit Fixation of Porous-coated Acetabular Component without Screws in Primary Total Hip Arthroplasty", American Association of Hip and Knee Surgeons, Dallas, Texas, November 12-14, 1999.
- 493. "Design Considerations of Cementless Acetabular Components", Concepts and Controversies in Arthroplasty and Sports Medicine, Pinehurst, North Carolina, October 15-17, 1999.
- 494. "Mechanisms of Failure in Cemented Total Hip Arthroplasty", Concepts and Controversies in Arthroplasty and Sports Medicine, Pinehurst, North Carolina, October 15-17, 1999.
- 495. "Infected Total Knee Arthroplasty",
- 496. "What's Important in Cementless Acetabular Cup Design", Advanced Techniques in Knee, Hip and Shoulder Reconstruction, Hilton Head, South Carolina, September 30-October 2, 1999.
- 497. "Total Hip Instability: Prevention and Treatment", Advanced Techniques in Knee, Hip and Shoulder Reconstruction, Hilton Head, South Carolina, September 30-October 2, 1999.
- 498. "Mobile Bearing vs. PCR vs. PCS" Advanced Techniques in Hip, Knee And Shoulder Reconstruction, Hilton Head, South Carolina, September 30-October 2, 1999.

- 499. "Knee Outcomes What Should We Measure", The Knee Society 1999 Interim Meeting, Southampton, Bermuda, September 2-4, 1999.
- 500. "White Blood Cell Count in Revision TKA", AORTA Meeting, Kohler, Wisconsin, August 4-8, 1999.
- 501. "Rotational Ma1alignment of the Femoral Component in Total Knee Arthoplasty", Education Design Total Joint Arthroplasty: Interactive Learning Center, Denver, CO, July 15-16, 1999.
- 502. "Rotational Malalignment of the Femoral Component in Total Knee Arthroplasty", Charlotte Knee Symposium, Charlotte, North Carolina, April 23-24, 1999.
- 503. "The Role of High Tibial Osteotomy in Medial Compartment Arthritis", Charlotte Knee Symposium, Charlotte, North Carolina, April 23-24, 1999.
- 504. "Revision TKA Techniques", Outcome in Orthopedic Surgery: Total Hip and Knee Arthroplasty, Education Design, Vail, Colorado, March 17-21, 1999.
- 505. "Failure of Polyethylene Exchange only for Prosthetic Knee Instability", 66th Annual Meeting American Academy of Orthopaedic Surgeons, Anaheim, California, February 4-8, 1999.
- 506. "Rotational Malalignment of the Femoral Component in Total Knee Arthroplasty", "Management of Valgus Deformity in Total Knee Arthroplasty", The Knee Society 1998 Interim Meeting, Scottsdale, Arizona, October 8-9, 1998.
- 507. "Management of Developmental Dysplasia of the Hip", Complex Primary and Revision Total Hip and Knee Arthroplasty, AAOS Summer Institute, Chicago, Illinois, September 12-13, 1998.
- 508. "Preoperative Planning in Revision Total Hip Arthroplasty", Complex Primary and Revision Total Hip and Knee Arthroplasty, AAOS Summer Institute, Chicago, Illinois, September 12-13, 1998.
- 509. "Constrained Total Knee Arthroplasty: Indications and Techniques", Technique & Complication Management in Total Joint Arthroplasty, Rancho Mirage, California April 23-26, 1998.
- 510. "Revision of Failed Cementless Total Knee Implants with Cement", The Knee Society and The American Association of Hip and Knee Surgeons 1998 Combined Specialty Day, New Orleans, Louisiana, March 22, 1998.
- 511. "Management of the Infected Total Knee Arthroplasty", Third Joint Perspective Meeting, (sponsored by Johnson & Johnson Orthopaedics), Port Douglas, Australia, January 14-17, 1998.
- 512. "Revision of Cementless Total Knee with Cement", Third Joint Perspective Meeting, (sponsored by Johnson & Johnson Orthopaedics), Port Douglas, Australia, January 14-17, 1998.
- 513. "Dealing with the Deficient Acetabulum", Third Joint Perspective Meeting, (sponsored by Johnson & Johnson Orthopaedics), Port Douglas, Australia, January 14-17, 1998.
- 514. "What's Important in Cementless Acetabular Design", Third Joint Perspective Meeting, (sponsored by Johnson & Johnson Orthopaedics), Port Douglas, Australia, January 14-17, 1998.
- 515. "Periprosthetic Hip Fractures", White Sulphur Springs Hip and Knee Arthroplasty Symposium, White Sulphur Springs, West Virginia, October 23-26, 1997.

- 516. "Mechanisms of Failed Cemented Total Hip Arthroplasty", Complex Primary and Revision Total Hip and Knee Arthroplasty AAOS Summer Institute, Washington, DC, September 6-7, 1997.
- 517. "Revision of Failed Cementless Total Knee Implants with Cement", 1997 AORTA Summer Meeting, Santa Monica, California, August 6-10, 1997.
- 518. "Diagnosing Infection in Joint Arthroplasty", Joint Replacement 1997: Engineering and Biology, Pinehurst, North Carolina, May 28-31, 1997.
- 519. "What is Important in Socket Design", Joint Replacement 1997: Engineering and Biology, Pinehurst, North Carolina, May 28-31, 1997.
- 520. "Acetabular Design Issues", Charlotte Hip Symposium, Charlotte, North Carolina, April 10-11, 1997.
- 521. "Management of Infection in THA", Charlotte Hip Symposium, Charlotte, North Carolina, April 10-11, 1997.
- 522. "In-Vivo Wear Rates of Enhanced Polyethylene in THA.", Controversies and Clinical Management in Hip & Knee Reconstruction, Vail, Colorado, March 14-17, 1997.
- 523. "Motion at the Modular Acetabular Shell-Liner Interface: A Comparative Study." Controversies and Clinical Management in Hip & Knee Reconstruction, Vail, Colorado, March 14-17, 1997.
- 524. "Knee Instability after TKA", Controversies and Clinical Management in Hip & Knee Reconstruction, Vail, Colorado, March 14-17, 1997.
- 525. "Bone Loss Associated with the Use of Spacer Blocks in Infected Total Knee Arthroplasty", 1997 Combined Specialty Day Meeting of the Knee Society and the American Association of Hip and Knee Surgeons, San Francisco, California, February 16, 1997.
- 526. "Bone Loss Associated with the Use of Spacer Block in Infected Total Knee Arthroplasty," American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, February 13-17, 1997.
- 527. "Cementless Fixation in Two-Stage Reimplantation for Periprosthetic Sepsis", American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, February 13-17, 1997.
- 528. "Cementless Revision Without Allograft for Severe Proximal Femoral Bone Loss", American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, February 13-17, 1997.
- 529. "In-Vivo Wear Rates of Enhanced Polyethylene in Total Hip Arthroplasty", AAHKS Sixth Annual Fall Meeting, Dallas, Texas, November 8-10, 1996.
- 530. "Revision Without Allograft for Severe Proximal Bone Loss," North Carolina Orthopaedic Association Annual Meeting, North Myrtle Beach, South Carolina, October 10-12, 1996.
- 531. "Cementless Fixation in Two Stage Reimplantation for Periprosthetic Sepsis", North Carolina Orthopaedic Association Annual Meeting, North Myrtle Beach, South Carolina, October 10-12, 1996.
- 532. "Motion at the Modular Acetabular Shell Liner Interface A Comparative Study", 1996 Vanderbilt Orthopaedic Society Annual Meeting, Asheville, North Carolina, April 24-27, 1996.
- 533. "Role of Stems in Revision Total Knee Arthroplasty", 1996 Vanderbilt Orthopaedic Society Annual Meeting, Asheville, North Carolina, April 24-27, 1996.

- 534. "Motion at the Modular Acetabular Shell Liner Interface A Comparative Study", American Academy of Orthopaedic Surgeons, Atlanta, Georgia, Feb. 22-26, 1995.
- 535. "Fluoroscopic Evaluation of the Painful Total Knee", The Knee Society, Atlanta, Georgia, February 25, 1996.
- 536. "Role of Stems in Revision Total Knee Arthroplasty", Hip & Knee Reconstruction An Advanced Course, Whistler, British Columbia, February 9-10,1996.
- 537. "Hip Instability Prevention and Treatment", Hip & Knee Reconstruction An Advanced Course, Whistler, British Columbia, February 9-10,1996.
- 538. "Liner Motion in Modular Acetabular Components A Comparative Study", American Association of Hip and Knee Surgeons, Dallas, Texas, November 10-12, 1995.
- 539. "Liner Motion in Modular Acetabular Components A Comparative Study", Current Issues in the Total Hip and Knee Arthroplasty, Tucson, Arizona, November 9, 1995.
- 540. "Liner Motion in Modular Acetabular Components A Comparative Study", North Carolina Orthopaedic Association Annual Meeting, Winston-Salem, North Carolina. September, 1995.
- 541. "Fluoroscopic Evaluation of the Painful Total Knee Arthroplasty", North Carolina Orthopaedic Association Annual Meeting, Winston-Salem, North Carolina. September, 1995.
- 542. "Revision Total Knee Arthroplasty An Update", North Carolina Orthopaedic Association Annual Meeting, Winston-Salem, North Carolina. September, 1995.
- 543. "Fluoroscopic Evaluation of the Painful Total Knee Arthroplasty", Advances in Total Hip and Knee Arthroplasty, Islamorada, Florida, September 21-24, 1995.
- 544. "Aspiration as a Guide to Sepsis in Revision Total Hip Arthroplasty", Advances in Total Hip and Knee Arthroplasty, Islamorada, Florida, September 21-24, 1995.
- 545. "Economics of Total Hip Arthroplasty: Methods to Decrease Costs", Advances in Total Hip and Knee Arthroplasty, Islamorada, Florida, September 21-24, 1995.
- 546. "Fluoroscopic Evaluation of the Painful Total Knee Arthroplasty", AORTA Meeting, Vail, Colorado. August, 1995.
- 547. "Revision Total Knee Arthroplasty", Reconstruction of the Arthritic Hip and Knee. Charleston, South Carolina. June, 1995.
- 548. "Unstable Total Knee Arthroplasty", Reconstruction of the Arthritic Hip and Knee. Charleston, South Carolina. June, 1995.
- 549. "Cost Containment Issues in Total Hip Arthroplasty", Reconstruction of the Arthritic Hip and Knee. Charleston, South Carolina. June, 1995.
- 550. "Managing Infections in Total Hip Arthroplasty", Reconstruction of the Arthritic Hip and Knee. Charleston, South Carolina. June, 1995.

- 551. "Aspiration as a Guide to Sepsis in Revision Total Hip Arthroplasty", American Academy of Orthopaedic Surgeons, Orlando, Florida. February 1995.
- 552. "Aspiration as a Guide to Sepsis in Revision Total Hip Arthroplasty", North/South Orthopaedic Association Annual Meeting, Asheville, North Carolina. October 1994.
- 553. "Unstable Total Knee, Controversies in Hip and Knee Arthroplasty." The Homestead Course, Hot Springs, Virginia. September 1994.
- 554. "Acetabular Reconstruction with Allografts and Oblong Cups", Total Hip and Knee Arthroplasty 1994 Updates, Winston-Salem, North Carolina. August 1994.
- 555. "Dealing with Acetabular Deficiencies", Total Hip and Knee Arthroplasty 1994 Updates, Winston-Salem, North Carolina. August 1994.
- 556. "Distal Femoral Reconstruction in Revision Total Knee Arthroplasty", Total Hip and Knee Arthroplasty 1994 Updates, Winston-Salem, North Carolina. August 1994.
- 557. "Unstable Total Knee", Total Hip and Knee Arthroplasty 1994 Updates, Winston-Salem, North Carolina. August 1994.
- 558. "Efficacy of Drilling the Osteonecrotic Femoral Head", Charlotte Hip Symposium, Charlotte, North Carolina. April 1994.
- 559. "Evaluation of the Painful Total Hip Arthroplasty", Charlotte Hip Symposium, Charlotte, North Carolina. April 1994.
- 560. "Economics of Total Hip Arthroplasty"; Keystone, Colorado, (Sponsored by Education Design). April 1994.
- 561. "Distal Femoral Defects in Total Knee Arthroplasty"; Keystone, Colorado, (Sponsored by Education Design). April 1994.
- 562. "Tips to Reestablish the Joint Line in Total Knee Arthroplasty", Keystone, Colorado, (Sponsored by Education Design). April 1994.
- 563. "Efficacy of Drilling the Osteonecrotic Femoral Head", AAOS Annual Meeting, New Orleans, Louisiana. February 1994.
- 564. "Frozen Histologic Section as a Guide to Sepsis in Revision Joint Arthroplasty", Rush/Presbyterian/St. Luke's Symposium on Revision Surgery, Chicago, Illinois. November 1993.
- 565. "Aspiration as a Guide to Sepsis in Revision Total Hip Arthroplasty", Rush/Presbyterian/St. Luke's Symposium on Revision Surgery, Chicago, Illinois. November 1993.
- 566. "Efficacy of Drilling the Osteonecrotic Femoral Head", Association for Arthritic Hip and Knee Surgery, Dallas, Texas. November 1993.
- 567. "Modular Tibial Augmentations in Total Knee Arthroplasty", Revision Hip and Knee Arthroplasty, Hilton Head, South Carolina. October 1993.
- 568. "Polyethylene Liners in Cementless Modular Acetabular Components A Comparative Analysis", Revision Hip and Knee Arthroplasty, Hilton Head, South Carolina. October 1993.

- 569. "Avascular Necrosis", North Carolina Orthopaedic Association, October 1993.
- 570. "Unstable Total Knee", Dealing with the New Generation of Complex Problems in Hip and Knee Arthroplasty, Pinehurst, North Carolina. September 1993.
- 571. "The Role of High Tibial Osteotomy in Degenerative Arthritis", Dealing with the New Generation of Complex Problems in Hip and Knee Arthroplasty, Pinehurst, North Carolina. September 1993.
- 572. "Polyethylene Liners in Modular Acetabular Components", Harris Hip Course, Massachusetts General Hospital, Boston, Massachusetts. September 1993.
- 573. "Soft Tissue Instability Following Total Knee Arthroplasty", Charlotte Knee Symposium Charlotte, North Carolina. April 1993.
- 574. "Wedge vs. Block Augmentation in Proximal Tibial Deficiencies", Charlotte Knee Symposium Charlotte, North Carolina. April 1993.
- 575. "Knee Instability Following Total Knee Arthroplasty," The Knee Society, San Francisco, California. February 1993.
- 576. "Modular Wedges vs. Block Augmentation for Proximal Tibial Deficiencies", AAOS Annual Meeting, San Francisco, California. February 1993.
- 577. "Augmentation for Proximal Tibial Deficiencies", AAOS Annual Meeting, San Francisco, California. February 1993.
- 578. "Augmentation Wedges vs. Blocks for Deficient Bone Stock in Total Knee Arthroplasty" Association for Arthritic Hip and Knee Surgery, Dallas, Texas. November 1992.
- 579. "Evaluations of Poly Liners in Modular Acetabular Components", Orthopedic Considerations for the Hip and Knee, Orlando, Florida. October 1992.
- 580. "Adverse Design Features of Cementless Modular Acetabular Components", Harris Hip Course, Massachusetts General Hospital, Boston, Massachusetts. September 1992.
- 581. "Evaluation of the Painful Total Knee Arthroplasty", "Polyethylene Liners in Modular
- 582. Porous Acetabular Components A Comparative Analysis", Charlotte Hip Symposium, Charlotte, North Carolina. May 1992.
- 583. "Polyethylene Liners in Modular Porous Acetabular Components A Comparative Analysis" AAOS Annual Meeting, Washington, D.C. February 1992.
- 584. "Modular Acetabular Components: Are They Really Metal Backed?", AAOS Annual Meeting, Washington, D.C. February 1992.
- 585. "Evaluation of the Painful Total Knee Arthroplasty", The Williamsburg Course, Williamsburg, Virginia. May 1991.
- 586. "Evaluation of the Painful Total Knee Arthroplasty", Charlotte Knee Symposium, Charlotte, North Carolina. April 1991.

- 587. "Periprosthetic Knee Sepsis: The Role of Irrigation and Debridement", The Knee Society, Anaheim, California, March 1991.
- 588. "Frozen Histologic Section As A Guide to Sepsis in Revision Arthroplasty", AAOS Annual Meeting, Anaheim, California. March 1991.
- 589. "Evaluation of Polyethylene Liners in Uncemented Acetabular Components: A Comparative Analysis", North Carolina Orthopaedic Association, Asheville, North Carolina. October 1990.
- 590. "Frozen Histologic Section As A Guide to Sepsis in Revision Arthroplasty", Southern Orthopaedic Association. June 1990.
- 591. "Current Concepts in Knee Replacement; Evaluation of the Painful Total Knee; Assessment of Intrapelvic Cement and Screws in Revision Hip Arthroplasty", Hilton Head, South Carolina. May 1990.
- 592. "Evaluation of the Painful Total Hip; Femoral Implant Selection in Revision Total Hip Arthroplasty", Charlotte Hip Symposium, Course Director, Charlotte, North Carolina. April 1990.
- 593. "Total Knee Arthroplasty State of the Art: Evaluation of the Painful Total Knee", University of Colorado Health Science Center, Vail, Colorado. March 1990.
- 594. "Evaluation of the Painful Total Hip; Femoral Implant Selection in Revision Total Hip Arthroplasty", Current Concepts in Hip Arthroplasty, Ft. Lauderdale, Florida. March 1990.
- 595. "Adult Reconstructive Knee Surgery State of The Art", Southern Medical Association Annual Meeting, Washington, D.C. November 1989.
- 596. "Assessment of Intrapelvic Cement and Screws in Revision Total Hip Arthroplasty", North Carolina Orthopaedic Association. October 1989.
- 597. "Frozen Histologic Section As A Guide to Sepsis in Revision Total Hip Arthroplasty", North Carolina Orthopaedic Association. October 1989.
- 598. "Unicompartmental Arthroplasty", Orthopaedic Considerations for the Arthritic Knee, Albany Medical College Program. May 1989.
- 599. "Assessment of Intrapelvic Cement and Screws in Revision Total Hip", Current Concepts in Cementless Hip Arthroplasty, Department of Orthopaedic Surgery, University of Louisville, Louisville, Kentucky. May 1989.
- 600. "State of the Art: Complex Primary and Revision Knee and Hip Arthroplasty". Faculty Member, (sponsored by Osteonics), Breckenridge, Colorado. May 1989.
- 601. "Vascular Assessment of Intrapelvic Components in Revision Hip Arthroplasty", AAOS Annual Meeting, Las Vegas, Nevada. February 1989.
- 602. "Unicondylar Arthroplasty A Survivorship Analysis", AAOS Annual Meeting, Las Vegas, Nevada. February 1989.
- 603. "Periprosthetic Fractures of the Femur", North and South Carolina Combined Meeting, September 1989.

- 604. "Unicompartmental Arthroplasty: A Four to Fourteen Year Review", North and South Carolina Combined Meeting, September 1989.
- 605. "Revision Total Hip Arthroplasty State of the Art", Osteonics Southeastern Regional Meeting, Atlanta, Georgia. 1988.
- 606. "Revision Total Knee Arthroplasty", North Carolina Orthopaedic Association, Wilmington, North Carolina. September 1987.
- 607. "Upper Cervical Instability in Rheumatoid Arthritis", American Orthopaedic Association Resident Conference, Ann Arbor, Michigan. May 1984.