

# CURRICULUM VITAE

**PETER M. BONUTTI, MD, FACS**



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**Bonutti Clinic**

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**SPECIALTY: - Orthopedic Surgery**

**SUBSPECIALTY: - Arthroplasty and Arthroscopy**  
Knee / Hip / Shoulder

**BOARD CERTIFICATION:** - American Board of Orthopedic Surgery, Certified - 07/91  
- Re-certified 01/2002; 01/2012 and 01/2022

**ACADEMIC APPOINTMENTS:**

Associate Clinical Professor, Department of Orthopedic Surgery, University of Arkansas, 1996-2015

**FELLOW:** American College of Surgeons  
Arthroscopy Association of North American  
American Academy of Orthopedic Surgeons

**PROFESSIONAL ORGANIZATIONS:**

American Academy of Orthopaedic Surgeons (AAOS)  
American College of Surgeons (FACS)  
Arthroscopy Association of North America (AANA)  
American Association of Hip and Knee Surgeons (AAHKS)  
American College Physician Inventors

**MEDICAL LICENSES:**

1. Ohio License: Number 52274
2. Illinois License: Number 036-078905
3. Florida License: Number ME 119504

**HOSPITAL APPOINTMENTS:**

Sarah Bush Lincoln, Mattoon, Illinois  
Consulting with Admitting Staff 2018 - Present

HSBS St. Anthony Memorial Hospital, Effingham, Illinois  
Active Medical Staff 1989 - Present  
President Medical Staff - 1998-1999  
Surgical Department Chairman - 1997-1998  
Executive Committee - 1997-2001

Holy Cross Hospital, Fort Lauderdale, FL  
Provisional Staff 2014 - Present

Cleveland Clinic, Weston, FL  
Provisional Staff 2018 – Present

Effingham Ambulatory Surgery Center, Effingham, Illinois  
Active Medical Staff 1995 - 2020

**BOARD APPOINTMENT:**

Cleveland Clinic Foundation  
- Orthopedic Surgery Leadership Board - 2007-Present

**SUBSPECIALTY TRAINING:**

International Traveling Fellowship – Sports Medicine

Desmond Bokor, M.D., & Mervyn Cross, M.D.  
Sydney, Australia, 1989  
Timm Astley, M.D.  
Auckland, New Zealand

Shoulder and Elbow Fellowship

Richard J. Hawkins, M.D.  
University of Western Ontario, London, Canada 1988

Research Fellowship

Cleveland Research Institute  
Director Orthopaedics Section - 1988-1989

Additional Studies: Graz, Austria – 1987 / Mayo Clinic 1989

**RESIDENCY:**

Cleveland Clinic Foundation  
Orthopaedic Surgery Residency, 07/83 - 06/88  
Surgical Internship, 07/83 - 06/84

**MEDICAL SCHOOL:**

University of Cincinnati College of Medicine  
Cincinnati, Ohio 1978-1983

**UNDERGRADUATE:**

University of Chicago - B.A. in Biology  
Chicago, Illinois 1974-1978

**SECONDARY SCHOOL:**

Gilmour Academy, Gates Mills, Ohio 1971-1974

**EDITORIAL POSITION:**

*The Journal of Arthroplasty* – Editorial Review Board – Guest Editor  
*Clinical Orthopaedics and Related Research* - Clinical Reviewer  
*Journal of Bone and Joint Surgery* - Clinical Reviewer  
*The Journal of Knee Surgery* – Clinical Reviewer  
*Orthopedics* – Clinical Reviewer

## PEER REVIEWED INDEX MEDICUS REPORTS:

1. Technology Review: CT Scan-Guided, 3-Dimensional, Robotic-Arm Assisted Lower Extremity Arthroplasty. Chen Z, Bonutti PM, Barsoum WK, Mont MA, Bains SS, Jacofsky DJ. Surgical Technology International. 2021 Volume 40; 1-12.
2. Response to: Confidence in the ATTUNE Knee is Driven by Real-World Scientific Evidence: Response to Bonutti et al. Article. Journal of Knee Surgery. 2018 Sep; 31(8): 811-814.
3. Long-term Wear Data From a Prospective Multicenter Study of Second-Generation Highly Cross-linked Polyethylene Inserts in Total Hip Arthroplasty. Bonutti PM, Mesko JW, Ramakrishnan R. Orthopedics. 2018 Jul 1;41(4):e529-e533. doi:10.3928/01477447-20180511-03.Epub 2018 May 18.
4. Hip and Knee Arthroplasty Orthopedic Literature in Medical Journals – Is It Negatively Biased? Delanois RE, Chukwuweike UG, PiuZZi NS, Chughtai M, Malkani AL, Bonutti PM, Mont MA. The Journal Of Arthroplasty. 2018 Feb; 33(2): 615-619.
5. Wound Closure Techniques for Total Knee Arthroplasty: An Evidence-Based Review of the Literature. Krebs VE, Elmallah RK, Khlopas A, Chughtai M, Bonutti PM, Roche M, Mont MA. Journal of Arthroplasty. 2018 Feb; 33(2): 633-638.
6. Novel Venous Thromboembolic Disease (VTED) Prophylaxis for Total Knee Arthroplasty-Aspirin and Fish Oil. Bonutti PM, Sodhi N, Patel YH, Sultan AA, Khlopas A, Chughtai M, Kolisek FR, Williams N, Mont MA. Ann Transl Med. 2017 Dec;5(Suppl 3):S30.
7. Economic Evaluation of Different Suture Closure Methods: Barbed Versus Traditional Interrupted Sutures. Elmallah RK, Khlopas A, Faour M, Chughtai M, Malkani AL, Bonutti PM, Roche M, Harwin SF, Mont MA. Ann Transl Med. 2017 Dec;5(Suppl 3):S26.
8. Total Knee Arthroplasty Fibrosis Following Arthroscopic Intervention. Churchill JL, Sodhi N, Khlopas A, PiuZZi NS, Dalton SE, Chughtai M, Sultan AA, Jones S, Williams N, Bonutti PM, Mont MA. Ann Transl Med. 2017 Dec;5(Suppl 3):S28.
9. Improvement in Hamstring and Quadriceps Muscle Strength Following Cruciate-Retaining Single Radius Total Knee Arthroplasty. Kurowicki J, Khlopas A, Sultan AA, Sodhi N, Samuel LT, Chughtai M, Roche M, Bonutti PM, Mont MA. Ann Transl Med. 2017 Dec;5(Suppl 3):S27.
10. Quadriceps and Hamstring Muscle Strength Improves After Unicompartmental Knee Arthroplasty. Kurowicki J, Khlopas A, Sodhi N, Newman JM, Sultan AA, Chughtai M, Bhave A, Roche M, Bonutti PM, Mont MA. Surgical Technology International. Nov. 2017 Vol. 31, 267-272.
11. Manufactured Brace Modalities for Elbow Stiffness. Sodhi N, Khlopas A, Vaughn MD, George J. Yakubek G, Sultan AA, Harwin SF, Bonutti, PM, Mont MA. Orthopedics. 2017 Nov 8:1-9 Epub ahead of print.
12. Does Length of Stay Influence How Patients Rate Their Hospitalization After Total Hip Arthroplasty? Delanois RE, Gwam C, Mistry JB, Khlopas A, Chughtai M, Ramkumar P, PiuZZi N, Berger R, Bonutti PM, Malkani AL, Mont MA. Surg Technol Int. 2017 Jul 25;30:393-398.
13. Dual Mobility Acetabular Cups in Primary Total Hip Arthroplasty in Patients at High Risk for Dislocation. Harwin SF, Mistry JB, Chughtai M, Khlopas A, Gwam C, Newman JM, Higuera CA, Bonutti PM, Malkani AL, Kolisek FR, Delanois RE, Mont MA. Surg Technol Int. 2017 Jul25;30:251-258.
14. Unusually High Rate of Early Failure of Tibial Component in ATTUNE Total Knee Arthroplasty System at Implant-Cement Interface. Bonutti PM, Khlopas A, Chughtai M, Cole C, Gwam CU, Haarwin SF, Whited B, Omiyi DE, Drumm JE. Journal of Knee Surgery. 2017 Jun;30(5):435-439.

15. Do Press Ganey Scores Correlate with Total Knee Arthroplasty-Specific Outcome Questionnaires in Postsurgical Patients? Chughtai M, Patel NK, Gwam CU, Khlopas A, [Bonutti PM](#), Delanois RE, Mont MA. J Arthroplasty. 2017 Sep;32(9S):S109-S112.
16. What Influences How Patients Rate Their Hospital After Total Knee Arthroplasty? Mistry JB, Chughtai M, Elmallah RK, LE S, [Bonutti PM](#), Delanois RE, Mont MA. Journal of Arthroplasty. 2016 Nov; 31(11):2422-2425.
17. Erratum to: Low Frequency of Early Complications With Dual-Mobility Acetabular Cups in Cementless Primary THA. Chughtai M, Mistry JB, Diedrich AM, Jauregui JJ, Elmallah RK, [Bonutti PM](#), Harwin SF, Malkani AL, Kolisek FR, Mont MA. Clinical Orthopaedics and Related Research. 2016 Oct;474(10):2318.
18. Low Frequency of Early Complications With Dual-Mobility Acetabular Cups in Cementless Primary THA. Chughtai M, Mistry JB, Diedrich AM, Jauregui JJ, Elmallah RK, [Bonutti PM](#), Harwin SF, Malkani AL, Kolisek FR, Mont MA. Clinical Orthopaedics and Related Research. 2016 Oct;474(10):2318.
19. What Influences How Patients Rate Their Hospital After Total Knee Arthroplasty? Chughtai M, Jauregui JJ, Mistry JB, Elmallah RK, Diedrich AM, [Bonutti PM](#), Delanois RE, Mont MA. Surgical Technology International. 2016 Apr;28:261-5.
20. Bariatric Orthopaedics: Total Knee Arthroplasty in Super-obese Patients (BMI> 50 kg/m<sup>2</sup>). Survivorship and Complications. Issa K, Harwin SF, Malkani AL, [Bonutti PM](#), Scillia A, Mont MA. Journal Bone and Joint Surgery Am. 2016 Feb 3;98(3): 180-5.
21. Incidence and Future Projections of Periprosthetic Femoral Fracture Following Primary Total Hip Arthroplasty; An Analysis of International Registry Data. Pivec R, Issa K, Kapadia BH, Cherian JJ, Maheshwari AV, [Bonutti PM](#), Mont MA. Journal of Long-Term Medical Implants. 2015;25(4):269-75.
22. Effect of Bone Type on Clinical and Radiographic Outcomes of a Proximally-Coated Cementless Stem in Primary Total Hip Arthroplasties. Issa K, Stroh AD, Mont MA, [Bonutti PM](#). J Orthop Res. 2014 Sep;32(9):1214-20. Epub 2014 May 16.
23. Opioid Use Prior to Total Hip Arthroplasty Leads to Worse Clinical Outcomes. Pivec R, Issa K, Naziri Q, Kapadia BH, [Bonutti PM](#), Mont MA. International Orthopedics. 2014 Jun;38(6): 1159-65. Epub 2014 Feb 27.
24. Proximally Coated Cementless Bipolar Hemiarthroplasty in Dorr type C Bone. [Bonutti PM](#), Stroh AD, Issa K, Harwin SF, Patel DV, Mont MA. Orthopedics. 2014 Apr; 37(4):e345-50.
25. Tobacco Use May Be Associated With Increased Revision and Complication Rates Following Total Hip Arthroplasty. Kapadia BH, Issa K, Pivec R, [Bonutti PM](#), Mont MA. Journal of Arthroplasty. 2014 Apr;29(4):777-80. Epub 2013 Oct 3.
26. Bariatric Orthopaedics: Total Knee Arthroplasty in Super-obese Patients (BMI> 50 kg/m<sup>2</sup>). Survivorship and Complications. Naziri Q, Issa K, Malkani AL, [Bonutti PM](#), Harwin SF, Mont MA. Clinical Orthopaedics and Related Research. 2013 Nov;471(11):3523-30. Epub 2013 Jul 10.
27. Improved Fixation in Cementless Unicompartmental Knee Replacement. [Bonutti P](#). Orthopedics 2013 Nov 1;36(11):864-5.
28. Delamination of Tantalum Porous Coating From a TKA Due to Regional Dissemination of Debris. [Bonutti PM](#), Pivec R, Issa K, Kapadia BH, Banerjee S, Harwin SF, Mont MA, Bauer TW. Orthopedics. 2013 August;36(8):600-4.
29. Effectiveness of Various Hospital-Based Solutions Against Community- Acquired Methicillin-Resistant *Staphylococcus Aureus*. Perona P, Johnson A, Perona J, Issa K, Kapadia B, [Bonutti P](#), Mont M. Journal of Long-Term Medical Implants. Volume 23, Number 1, 2013.

30. Patient Dissatisfaction with Rehabilitation Following Primary Total Knee Arthroplasty. Johnson AJ, Issa K, Naziri Q, Harwin SF, Bonutti PM, Mont MA. Journal of Knee Surgery. 2013 April 16. (Epub ahead of print)
31. Single-Use Instrumentation, Cutting Blocks, and Trials Decrease Contamination during Total Knee Arthroplasty: A Prospective Comparison of Navigated and Nonnavigated Cases. Mont MA, Johnson AJ, Issa K, Pivec R, Blasser KE, McQueen D, Puri L, Dethmers DA, Miller DW, Ireland PH, Shurman JR, Bonutti P. Journal of Knee Surgery. 2013 Jan 28. (Epub ahead of print)
32. Increased Revision Rates After Total Knee Arthroplasty in Patients Who Smoke. Kapadia BH, Johnson AJ, Naziri Q, Mont MA, Delanois RE, Bonutti PM. Journal of Arthroplasty. 2012 Oct; 27(9): 1690-1695.
33. New Technologies in Knee Arthroplasty. Naziri Q, PivecR, Johnson AJ, Harwin SF, Bonutti PM, Costa CR, Mont MA. Surgical Technology International. 2012 Dec; 22:272-84.
34. TKA Results Are Not Compromised by Previous Arthroscopic Procedures. Issa K, Naziri Q, Johnson AJ, Pivec R, Bonutti PM, Mont MA. Journal Knee Surgery 2012 May;25(2):161-4.
35. Critical Review of Minimally Invasive Approaches in Knee Arthroplasty. Costa CR, Johnson AJ, Harwin SF, Mont MA, Bonutti PM. Journal Knee Surgery. 2013 Feb;26(1):41-50. Epub 2012 May 15.
36. Lumbar Spinal Stenosis Impairs Function Following Total Knee Arthroplasty. Pivec R, Johnson AJ, Naziri Q, Issa K, Mont MA, Bonutti PM. Journal Knee Surgery. 2013 Feb;26(1):59-64. Epub 2012 May 15.
37. Total Knee Arthroplasty in Patients 40 Years and Younger. Mont MA, Sayeed SA, Osuji O, Johnson AJ, Naziri Q, Delanois RE, Bonutti PM. Journal Knee Surgery 2012 Mar;25(1): 65-69.
38. Short and Standard Stem Prostheses are Both Viable Options for Minimally Invasive Total Hip Arthroplasty. McElroy MJ, Johnson AJ, Mont MA, Bonutti PM. Bulletin of the NYU Hospital for Joint Disease. 2011;69 (Suppl 1):S68-76.
39. Excellent Clinical Outcomes in Total Knee Arthroplasty Performed Without A Tourniquet. Stroh DA; Johnson AJ, Mont MA, Bonutti PM. Surgical Technology International. 2011 Dec 1;XXI:189-193 (Epub ahead of print)
40. Unicompartmental and Total Knee Arthroplasty in the Same Patient. Costa CR, Johnson AJ, Mont MA, Bonutti PM. Journal of Knee Surgery. 2011 Dec;24(4):273-8.
41. Chronic Opioid Use Prior to Total Knee Arthroplasty. Zywiell MG, Stroh DA, Lee SY, Bonutti PM, Mont MA. Journal Bone and Joint Surgery Am. 2011 Nov 2;93(21):1988-93.
42. Results of MIS TKA at Mean Nine Year Follow-Up. Bonutti P, Costa C, Woehnl A, Johnson A, Mont M. Journal of Knee Surgery 2011 Sep;24 (3) 203-207.
43. Early Outcomes of Sequentially Cross-Linked Thin Polyethylene Liners with Large Diameter Femoral Heads in Total Hip Arthroplasty. Sayeed S, Mont M, Costa C, Johnson A, Naziri Q, Bonutti P, Delanois R. Bulletin of the NYU Hospital for Joint Diseases 2011; 69(Suppl 1):S90-4.
44. Does Acetabular Inclination Angle Affect Survivorship of Alumina-ceramic Articulations? Johansson HR, Johnson AJ, Zywiell MG, Naughton M, Mont MA, Bonutti PM. Clinical Orthopaedics and Related Research 2011 Jun;469(6):1560-1566.
45. Are Abductor Muscle Quality and Previous Revision Surgery Predictors of Constrained Liner Failure in Hip Arthroplasty? Zywiell MG, Mustafa LH, Bonutti PM, Mont MA. International Orthopedics Epub 2010 Feb 20. 2011 Jun;35(6):797-802.

46. Peroneal Nerve Dysfunction After Total Knee Arthroplasty Characterization and Treatment. Zywiol MG, Mont MA, McGrath MS, Ulrich SD, Bonutti PM, Bhave A. Journal of Arthroplasty. Epub 2010 May 28. 2011 Apr;26(3):379-385.
47. Arthroscopic Assisted Minimally Invasive Total Knee Arthroplasty. Bonutti P, Smith J, Ulrich S, Marker D, Seyler T, Mont M. Arthroscopy The Journal of Arthroscopic and Related Research 2011 Feb;27(2):290-293.
48. Outcomes of Unicompartmental Knee Arthroplasty Stratified by Body Mass Index. Bonutti P, Goddard M, Zywiol M, Khanuja H, Johnson A, Mont M. Journal of Arthroplasty Epub 2011 Jan 21.
49. Minimally Invasive Total Knee Arthroplasty: Pitfalls and Complications. Bonutti P, Zywiol M, Ulrich S, McGrath M, Mont M. American Journal of Orthopedics 2010 Oct;39(10):480-484.
50. Femoral Notch Stenosis Caused by Soft Tissue Impingement in Semi or Open-Box Posterior-Stabilized Total Knee Arthroplasty. Bonutti P, Zywiol M, Rudert L, Gough A, McGrath M, Mont M. Journal of Arthroplasty. 2010 Oct;25(7):1061-1065. Epub 2009 Sep 2.
51. Surgeon Perceptions Regarding Custom-Fit Positioning Technology for Total Knee Arthroplasty. Mont M, Johnson A, Bonutti, P. Surgical Technology International 2010;20:348-351.
52. Surgical Techniques for Minimally Invasive Exposures for Total Knee Arthroplasty. Bonutti PM, Zywiol MG, McGrath MS, Mont MA. Instructional Course Lectures. 2010;59:83-91.
53. Scientific Evidence for Minimally Invasive Total Knee Arthroplasty. Mont MA, Zywiol MG, McGrath MS, Bonutti PM. Instructional Course Lectures. 2010;59:73-82. Review.
54. Minimally Invasive Total Knee Arthroplasty Using the Contralateral Knee as a Control Group: A Case-Control Study. Bonutti P, Zywiol M, Seyler T, Lee S, McGrath M, Marker D, Mont M. International Orthopedics. Epub 2009 Apr 8. 2010 Apr;34(4):491-5.
55. A Comparison of Subvastus and Midvastus Approaches in Minimally Invasive Total Knee Arthroplasty. Bonutti PM, Zywiol MG, Ulrich SD, Stroh DA, Seyler TM, Mont MA. Journal of Bone and Joint Surgery AM. March 2010; (3)575-582.
56. Scientific Evidence for the Use of Modern Unicompartmental Knee Arthroplasty. Maduekwe UI, Zywiol MG, Bonutti PM, Johnson AJ, Delanois RE, Mont MA. Expert Review Medical Devices March 2010 (2):219-239. Review.
57. Restoring Range of Motion Via Stress Relaxation and Static Progressive Stretch in Posttraumatic Elbow Contractures. Ulrich S, Bonutti P, Seyler T, Marker D, Morrey B, Mont M. Journal of Shoulder and Elbow Surgery Epub 2009 Dec 2. March 2010;(2):196-201.
58. Bicondylar Spontaneous Osteonecrosis of the Knee: A Case Report. Zywiol M, Armocida F, McGrath M, Bonutti P, Mont M. Knee. Epub 2009 Jul 16. 2010 Mar;17(2): 167-71.
59. Static Progressive Stretch Improves Range of Motion in Arthrofibrosis Following Total Knee Arthroplasty. Bonutti P, Marulanda G, McGrath M, Mont M, Zywiol M. Knee Surgery, Sports Traumatology, Arthroscopy. Epub 2009 October 14. 2010 Feb; 18(2): 194-9.
60. An Arthroscopic Technique to Enhance Visualization During Total Hip Arthroplasty. Bonutti P, McGrath M, Johansson H, Ulrich S, Mont M. Journal Of Arthroplasty. Epub 2009 Feb 5. 2010 Feb;25(2):216-8.
61. Scientific Evidence for the Use of Modern Patellofemoral Arthroplasty. Gupta RR, Zywiol MG, Leadbetter WB, Bonutti P, Mont MA. Expert Review Medical Devices January 2010 (1):51-66.
62. Early Failure of a Unicompartmental Knee Arthroplasty Design With an All-Polyethylene Tibial Component. Saenz C, McGrath M, Marker D, Seyler T, Mont M, Bonutti P. Knee. Epub 2009 Jun 23. 2010 Jan;17(1):53-6

63. Joint-Preserving Surgical Treatment of Spontaneous Osteonecrosis of the Knee. Duany N, Zywiol M, McGrath M, Siddiqui J, Jones L, Bonutti P, Mont M. Archives of Orthopaedic and Trauma Surgery. 2010, 130:11-16.
64. Patellofemoral Arthroplasty: A Multicentre Study with Minimum 2-year Followup. Leadbetter W, Kolisek F, Levitt R, Brooker A, Zietz P, Marker D, Bonutti P, Mont M. International Orthopedics. Epub 2008 Dec 5. 2009 Dec;33(6):1597-601.
65. Mid-Term Results and Factors Affecting Outcome of a Metal-backed Unicompartamental Knee Design: A Case Series. Seyler TM, Mont MA, Lai LP, Zie J, Marker DR, Zywiol MG, Bonutti PM. Journal of Orthopedic Surgery Research. October 26, 2009;4:39.
66. Shoulder Resurfacing: Past, Present and Future. Burgess D, McGrath M, Bonutti P, Marker D, Delanois R, Mont M. Journal Bone and Joint Surgery (Am). May 2009;91(5):1228-1238. Review.
67. Does Functional Improvement Following TKA Correlate to Increased Sports Activity? Marker D, Mont M, Seyler T, McGrath M, Kolisek F, Bonutti P. Iowa Orthopedic Journal. 2009;29:11-6.
68. Osteonecrosis of the Knee: A Review of Three Disorders. Zywiol M, McGrath M, Seyler T, Marker D, Bonutti P, Mont M. Orthopaedic Clinics of North America April 2009;40(2):193-211.
69. Anatomic and Physiologic Rationale for Various Technologies for Primary Total Hip Arthroplasty. Mont M, McGrath M, Bonutti P, Ulrich S, Marker D, Seyler T, Suda A. Expert Review Medical Devices. March 2009;6(2):169-86.
70. Techniques for Managing Anatomic Variations in Primary Total Knee Arthroplasty. Mont M, Bonutti P, Seyler T, Ulrich S, Suda A, McGrath M. Expert Review Medical Devices. January 2009, 6(1):75-93.
71. Static Progressive Stretch for Restoration of Rotational Motion of the Forearm. McGrath M, Ulrich S, Bonutti P, Johansson H, Marker D, Mont M. Journal of Hand Therapy 2009 Jan;22(1):3-9.
72. Evaluation of Static Progressive Stretch For the Treatment of Wrist Stiffness. McGrath M, Ulrich S, Bonutti P, Smith J, Seyler T, Mont M. Journal of Hand Surgery. November 2008;33(9): 1498-1504.
73. Computer Navigation-Assisted Versus Minimally Invasive Total Knee Arthroplasty: Benefits and Drawbacks. Bonutti P, Dethmers D, Ulrich S, Seyler T, Mont M. Clinical Orthopaedics and Related Research Epub Sept. 25, 2008. November 2008, 466(11): 2756-2762.
74. Navigation Did Not Improve the Precision of Minimally Invasive Knee Arthroplasty. Bonutti P, Dethmers D, McGrath M, Ulrich S, Mont M. Clinical Orthopaedics and Related Research Epub July 2008. November 2008, 466(11): 2730-2735.
75. Contemporary Unicompartamental Knee Arthroplasty: Fixed Versus Mobile Bearing. Bonutti P, Dethmers D. Journal Of Arthroplasty. October 2008;23(7 Suppl): 24-27.
76. Static Progressive Stretch for The Treatment of Knee Stiffness. Bonutti P, McGrath, M, Ulrich S, McKenzie S, Seyler T, Mont M. Knee, August 2008, 15(4): 272-276 .
77. Results of Total Knee Replacement for Isolated Patellofemoral Arthritis: When Not To Perform a Patellofemoral Arthroplasty. Delanois R, McGrath M, Ulrich S, Marker D, Seyler T, Bonutti P, Mont M. Orthopaedic Clinics of North America. 2008 Jul;39(3):381-8.
78. Inventing in Orthopaedics: From Idea to Marketed Device. Bonutti P, Seyler T, Bianco P, Ulrich S, Mont M. Journal of Bone and Joint Surgery Am. 2008 June;90(6): 1385-1392.
79. Case Report: Femoral Shaft Fracture Resulting From Femoral Tracker Placement in Navigated Total Knee Arthroplasty. Bonutti P, Dethmers D, Stiehl J. Clinical Orthopaedics and Related Research June 2008; 466(6): 1499-1502.

80. Bone Morphogenetic Proteins in Total Hip Arthroplasty, Osteonecrosis and Trauma Surgery. Stiehl J, Ulrich S, Seyler T, Bonutti P, Marker D, Mont M. Expert Review Medical Devices; 2008 Mar; 5(2): 231-238.
81. Outcomes-based Evaluations Supporting Computer-Assisted Surgery and Minimally Invasive Surgery for Total Hip Arthroplasty. Ulrich S, Bonutti P, Seyler T, Marker D, Jones L., Mont M. Expert Review Medical Devices; November 2007 4(6):873-883.
82. Minimally Invasive Lateral Approach To Total Knee Arthroplasty. Seyler T, Bonutti P, Ulrich S, Marker D, Mont M. Journal Of Arthroplasty Vol. 22, October 2007; 7:21-26.
83. Functional Problems and Arthrofibrosis Following Total Knee Arthroplasty. Seyler T, Marker D, Bhav A, Plate J, Marulanda G, Bonutti P, Delanois R, Mont M. Journal of Bone and Joint Surgery (AM) (S). October 2007: 3, 59-69.
84. Scientific Evidence Supporting Computer-Assisted Surgery and Minimally Invasive Surgery for Total Knee Arthroplasty. Ulrich S, Mont M, Bonutti P, Seyler T, Marker D, Jones L. Expert Review Medical Devices; 2007 July 4(4):497-505.
85. Clinical Experience Using A Minimally Invasive Surgical Approach For Total Knee Arthroplasty Early Results Of A Prospective Randomized Study Compared To A Standard Approach. Kolisek F, Bonutti P, Hozack W, Purtill J, Sharkey P, Zelicof S, Ragland P, Kester M, Mont M, Rothman R. Journal of Arthroplasty 2007, January 22(1):8-13.
86. An Accurate and Reproducible Method for Locating the Joint Line During A Revision Total Knee Arthroplasty. Mason M, Belisle A, Bonutti P, Kolisek F, Malkani A, Masini M. Journal of Arthroplasty 2006, December 21(8): 1147-1153.
87. Use Of An Alumina-On-Alumina Bearing System In Total Hip Arthroplasty For Osteonecrosis Of The Hip. Seyler T, Bonutti P, Shen J, Naughton, M, Kester M. Journal of Bone and Joint Surgery (AM) 88: November 2006; 116-125.
88. Osteonecrosis Of The Knee After Laser Or Radiofrequency-Assisted Arthroscopy: Treatment With Minimally Invasive Knee Arthroplasty. Bonutti P, Seyler T, Delanois R, McMahon M, McCarthy J, Mont M. Journal of Bone and Joint Surgery (AM) 88: November 2006: 69-75.
89. MIS Total Knee Arthroplasty - Minimally Invasive Surgery Or More Information Soon. Chauhan S, Norris M, Bonutti P. The Knee. December 2006; 13;417-418.
90. Minimally Invasive Revision Total Knee Arthroplasty. Bonutti P, Seyler T, Kester M, McMahon M, Mont M. Clinical Orthopedics and Related Research May 2006; 446:69-75.
91. Use of Direct Introduction of Allograft Anchors for Rotator Cuff Repair. Bonutti P, Cremens M. American Journal of Orthopedics February 2005; Vol. XXXIV:97-99.
92. Minimally Invasive Total Knee Arthroplasty. Bonutti P, Mont M, McMahon M, Ragland P, Kester M. Journal of Bone and Joint Surgery (S2), 2004:26-32.
93. Different Surgical Options for Monocompartmental Osteoarthritis of the Knee: High Tibial Osteotomy Versus Unicompartmental Knee Arthroplasty Versus Total Knee Arthroplasty: Indications, Techniques, Results, and Controversies. Mont M, Stuchin S, Paley D, Sharkey P, Parvisi J, Tria A, Bonutti P, Etienne G. Instructional Course Lectures. 2004;53:265-83.
94. MIS Total Knee Arthroplasty - Ten Feature Evolutionary Approach. Bonutti P, Mont M, Kester M. Orthopedic Clinics of North America. April 2004;35(2):217-26.
95. Minimal Incision Total Knee Arthroplasty Using the Suspended Leg Technique. Bonutti P, Neal D, Kester M. Orthopedics, September 2003, Vol. 26, No.9: 899-903.



96. Evaluation of a Suture Seat, a Biodegradable Suture Fastener, to Eliminate Knot-Tying in Arthroscopic Rotator Cuff Repair. Bonutti P, Cremens M, Gray T. Journal of Bone and Joint Surgery. 2003;85:147-152.
97. Use of an Allograft Bone Button for Rotator Cuff Repair. Bonutti P, Cremens M, Lee F, Gray T. Orthopedics. February 2002, Vol. 25, No. 2:149-151.
98. Effects of Machining on Tribological Behavior of Ultra High Molecular Weight Polyethylene (UHMWPE) Under Dry Reciprocating Sliding. Song J, Liu P, Cremens M, Bonutti P. WEAR 225-229 (1999), 716-723.
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100. Treatment of Symptomatic Glenoid Loosening Following Unconstrained Shoulder Arthroplasty. Hawkins R, Greis P, Bonutti P. Orthopedics. February 1999, Vol. 22: 229-234.
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4. Minimally Invasive Total Knee Arthroplasty: Pitfalls and Complications. Bonutti P, Zywiell M, Ulrich S, McGrath M, Mont M. *American Journal of Orthopaedics*. Submitted 2008.
5. Short and Long Term Outcomes in Shoulder Arthroplasty Using The Solar Total Shoulder System. Rosenberg G, Bell R, Bonutti P, Mason M. *Journal of Shoulder and Elbow Surgery* Submitted 2008.

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#### **VIDEO PUBLICATIONS - PEER REVIEW**

1. Surgical Techniques in Orthopedics. MIS TKA Mini-Subvastus Approach.  
Steven Stuchin, MD Editor  
- AAOS DVD 2006
2. Standing Room Only 1: Knee Arthroplasty: Insight and Evaluation of New Techniques.  
Daniel J. Berry, MD Editor  
- AAOS DVD Home-Study Program
3. Surgical Techniques in Orthopedics: Minimal Incision TKA.  
- AAOS DVD November 2005

#### **FOUNDER & CEO**

1. Bonutti Clinic - 1989
  - 1303 W. Evergreen, Effingham, Illinois
  - Multidisciplinary Musculoskeletal Center
  - 6 Physicians
  - 85 Employees
    - Orthopedic Surgery
    - Occupational Medicine
    - Diagnostic Center
    - Physical Therapy / Occupational Therapy
2. Bonutti Research, Inc. – 1990
  - 2600 S. Raney, Effingham, Illinois
  - Research & Development Facility
  - 15 Employees
    - Kinematic MRI - Hitachi
    - Kyphoplasty Balloons - Kyphon
      - Balloon Dissectors - Tyco Medical / US Surgical
      - Expandable Cannulas - Tyco Medical / US Surgical
3. Multitak, Inc. - 1998
  - Tissue Fixation / Anchor Systems
4. Unity - 2001
  - Tissue Welding / Fixation Systems
5. TranSet - 2002
  - Minimally Invasive Fracture Fixation

6. MarcTec, LLC - 2005
  - Intellectual Property
7. P Tech, LLC - 2009
  - Intellectual Property
8. AxioSonic - 2015
  - Topical Ultrasound
9. Realeve – 2001
  - Neuromodulator SPG
  - Founder, Chairman of Board

**LICENSED TECHNOLOGY:**

ArthroCare

Mechanically Locking Anchors  
- 10 Patents Licensed

Biomet - Sports

Meniscal Repair System  
Locking Suture Anchors  
- Over 42 Patents Licensed

Synthes - Trauma

Bone Harvesting  
IRI Reamer Irrigation Aspirator  
- 13 Patents Licensed  
Ultrasonic Welding  
- Over 15 Patents

Stryker - Minimal Incision Surgery

Total Knee Arthroplasty  
Total Hip Arthroplasty  
- 15 Patents Licensed

Kyphon

Inflatable Devices for Spinal Application  
Balloon Technology for Spine and Orthopedics  
- 23 Patents Licensed

Tyco - US Surgical

Balloon Dissectors  
1) Endosaph  
2) "PDB" Dissectors  
3) "Spacemaker" Balloon  
- 23 Patents Licensed  
Expandable Cannulas - "VersaStep"  
- 10 Patents Licensed

Hitachi North America, Inc.

Kinematic MRI  
- 9 Patents Licensed

Acacia Research Group

- 175 Patents Licensed

Stryker

- 128 Patents Licensed

Zimmer Biomet

Robotics & Gender Specific  
- 19 Patents Licensed  
1) ROSA  
2) NexGen  
3) Persona

**INVENTOR:****JOINT ACTIVE SYSTEMS (JAS) SPS TECHNOLOGY****JAS PRODUCTS:**

1. Active Armrest System
2. Active Motion System
  - Elbow
  - Knee
  - Wrist – Flexion / Extension
  - Ankle
  - Finger
  - Pronation / Supination
  - Shoulder
  - Neck
3. Continuous Passive Motion System
  - Elbow
4. Soft Goods / JAS Strap
5. JAS Pulse

**MULTITAK PRODUCTS:**

1. Titanium Anchor System (FDA Cleared)
2. Biodegradable Anchor - “Splinter” (FDA Cleared)
3. Bone Button (FDA Cleared)

**TRANSET PRODUCTS:**

1. Minimally Invasive Fracture Fixation Buttons (FDA Cleared)

**UNITY PRODUCTS:**

1. Ultrasonic Tissue Welding (FDA Cleared)
  - Suture Seat
2. Knotless Sutureless Anchor

**AXIOSONIC PRODUCTS:**

1. Ultrasonic Sinus Device

**CONSULTANT:****I. STRYKER ORTHOPEDICS (1991-2022)****INVENTOR CONSULTANT - HIP & KNEE ARTHROPLASTY  
UPPER EXTREMITY DESIGN TEAM****DESIGN PROJECTS**

1. Minimally Invasive Total Knee Instrumentation - Project Leader
2. Minimally Invasive Total Hip Implant
3. Endoscopic Assisted Total Knee & Hip Arthroplasty - Project Leader
4. “Mercury 118” Unicompartamental Knee Arthroplasty - Project Leader
5. “Precision” Disposable Instrumentation System
6. “Triathlon” Total Knee System - Instrumentation
7. “Generation X” Early Arthritis Intervention - Project Leader
  - Focal Defects, Trochlear Implant – Spacer Implant System
8. “Trident” Ceramic-On-Ceramic Total Hip Arthroplasty – FDA IDE Study
9. “Solar” Total Elbow System
10. “Solar” Total Shoulder System
11. “Scorpio” Revision Total Knee Implant and Instrumentation
12. “Scorpio” Total Knee, Cruciate Retaining System
13. “The Series 7000” Total Knee Implant and Instrumentation
14. “Passport” Total Replacement Instrumentation



## II. ZIMMER

1993-1995 Total Shoulder Arthroplasty

2001- 2003 MIS UKA

## III. BIOMET

2006-Present

Sports Medicine

- Soft Tissue Fixation

- Rotator Cuff Repair

- Meniscal Repair

Developer – MaxFire / Juggernaut

## IV. KYPHON

2002 – 2004

Vertebral Balloon System

## UNITED STATES PATENTS:

Patent Number	Title
11,613,731	Scaffold and method for implanting cells
11,607,541	Systems and methods for delivery of therapeutic agents
11,607,431	Systems and methods for thrombosis prevention
11,534,187	Acoustic therapy device
11,457,958	Devices and methods for stabilizing tissue and implants
11,318,217	Systems and methods for disinfection
11,317,974	Systems and methods for navigation and visualization
11,278,331	Method and devices for intracorporeal bonding of implants with thermal energy
11,266,520	Ankle orthosis
11,253,296	Methods and devices for intracorporeal bonding of implants with thermal energy
11,246,638	Methods and devices for utilizing bondable materials
11,219,446	Deformable fastener system
11,134,995	Method and devices for intracorporeal bonding of implants with thermal energy
11,129,645	Methods of securing a fastener
11,123,212	Elbow orthosis
11,096,809	Anatomic needle system
11,020,503	Systems and methods for disinfection
11,020,500	Systems and methods for disinfection
11,013,602	Scaffold for alloprosthetic composite implant
11,013,542	Tissue fixation system and method
10,959,791	Robotic surgery
10,946,111	Systems and methods for disinfection
10,932,869	Robotic surgery
10,881,440	Fixation systems and methods
10,869,728	Robotic surgery
10,828,339	Systems and methods for thrombosis prevention
10,814,025	Systems and methods for disinfection
10,813,764	Expandable introducer system and methods
10,806,590	Methods and systems for providing gender specific pharmaceuticals
10,779,984	Shoulder orthosis including flexion/extension device
10,765,484	Systems and methods for navigation and visualization
10,751,434	Systems and methods for disinfection
10,709,944	Devices, systems, and methods
10,709,474	Expandable access systems and methods
10,682,132	System for magnetic movement of tissue and implants
10,667,938	Orthosis for range of motion
10,639,387	Systems and methods for disinfection

10,639,052	Acoustic therapy device
10,561,838	Systems and methods for delivery of therapeutic agents
10,517,584	Tissue fixation system and method
10,470,780	Systems and methods for ligament balancing in robotic surgery
10,456,314	Range of motion device
10,441,269	Deformable fastener system
10,390,817	Tissue fixation system and method
10,376,259	Deformable fastener system
10,368,953	Robotic system for fastening layers of body tissue together and method thereof
10,368,924	Methods and devices for trauma welding
10,321,918	Methods for robotic surgery using a cannula
10,307,319	Orthosis for range of motion
10,294,455	Methods of building a body portion
10,265,128	Methods of using a robotic spine system
10,238,378	Tissue fixation system and method
10,231,739	System and method for robotic surgery
10,219,933	Pronation/supination orthosis and method
10,201,391	Methods of using a robotic spine system
10,183,044	Systems and methods for thrombosis prevention
10,159,591	Elbow orthosis
10,159,590	Toe orthosis
10,076,377	Fixation systems and methods
10,071,215	Medical device system including guide rod illumination
10,065,009	Methods for positioning a medical device in a respiratory system
10,058,393	Systems and methods for navigation and visualization
10,010,634	Systems and methods for disinfection
9,999,449	Devices and methods for stabilizing tissue and implants
9,986,994	Method and device for securing body tissue
9,980,871	Knee orthosis
9,980,761	Tissue fixation system and method
9,980,741	Methods and systems for controlling an ultrasonic handpiece based on tuning signals
9,980,717	Device and method for securing body tissue
9,962,162	Tissue fastener and methods for using same
9,888,916	Method and device for securing body tissue
9,884,451	Method of using ultrasonic vibration to secure body tissue
9,883,883	Ultrasonic handpiece
9,877,793	Robotic arthroplasty system
9,867,706	Tissue fastening system
9,814,453	Deformable fastener system
9,808,318	Robotic arthroplasty system
9,795,394	Method for placing implant using robotic system
9,770,238	Magnetic suturing system and method
9,763,683	Method for performing surgical procedures using optical cutting guides
9,763,581	Patient monitoring apparatus and method for orthosis and other devices (drug delivery)
9,757,585	Magnetic joint implant
9,750,612	Methods and systems for providing gender specific pharmaceuticals
9,750,496	System for securing a portion of a body
9,743,963	Methods and devices for trauma welding
9,681,977	Apparatus and method for spinal distraction
9,629,687	Robotic arthroplasty system
9,610,073	Methods and devices for intracorporeal bonding of implants with thermal energy
9,585,725	Robotic arthroplasty system
9,581,179	Systems for modifying a fluid flow of a vehicle

9,579,129	Devices and methods for stabilizing tissue and implants
9,572,704	Ankle foot orthosis
9,572,702	Shoulder orthosis including flexion and extension
9,545,268	Devices and methods for stabilizing tissue and implants
9,498,249	Expandable access systems and methods
9,486,227	Robotic retractor system
9,474,847	Methods and devices for controlling biologic microenvironments
9,468,578	Range of motion device
9,463,042	Methods and systems for controlling an ultrasonic handpiece based on sensed pressure
9,463,012	Apparatus for guiding and positioning an implant
9,445,966	Range of motion device
9,439,704	Methods and devices for bone preparation
9,439,642	Methods and devices for utilizing bondable materials
9,421,005	Methods and devices for intracorporeal bonding of implants with thermal energy
9,402,668	Tissue fixation system and method
9,345,606	Shoulder orthosis
9,320,669	Range of motion system
9,314,392	Range of motion device
9,301,845	Implant for knee replacement
9,271,779	Methods of using a robotic spine system
9,271,766	Devices and methods for stabilizing tissue and implants
9,271,741	Robotic ultrasonic energy system
9,259,344	Pronation/supination orthosis and method
9,248,041	Elbow orthosis
9,237,962	Toe orthosis
9,226,828	Devices and methods for stabilizing tissue and implants
9,216,046	Methods and devices for bone preparation
9,198,793	Finger orthosis
9,192,459	Method of performing total knee arthroplasty
9,192,395	Robotic fastening system
9,173,650	Methods and devices for trauma welding
9,173,647	Tissue fixation system
9,168,163	Anatomic needle system
9,155,544	Robotic systems and methods
9,149,281	Robotic system for engaging a fastener with body tissue
9,138,222	Method and device for securing body tissue
9,101,443	Methods for robotic arthroplasty
9,089,323	Device and method for securing body tissue
9,067,362	Method of using ultrasonic vibration to secure body tissue with fastening element
9,060,797	Method of preparing a femur and tibia in knee arthroplasty
9,060,767	Tissue fastener and methods for using same
9,050,152	Method and apparatus for use in operating on a bone
9,044,341	Joint spacer
9,044,322	Method and apparatus for use in operating on a bone
8,956,417	Joint spacer
8,932,330	Method and device for securing tissue
8,920,346	Knee orthosis
8,905,950	Shoulder ROM orthosis
8,858,557	Method of preparing a femur and tibia in knee arthroplasty
8,845,699	Method of securing tissue
8,845,687	Anchor for securing suture
8,840,629	Robotic arthroplasty system including navigation
8,834,490	Method for robotic arthroplasty using navigation

8,814,902	Method of securing body tissue
8,814,816	Range of motion device
8,808,329	Apparatus and method for securing a portion of a body
8,795,363	Wedge apparatus for use in operating on a bone
8,784,495	Segmental knee arthroplasty
8,784,343	Range of motion system
8,771,211	Ankle orthosis
8,750,983	Therapeutic system
8,747,439	Method of using ultrasonic vibration to secure body tissue with fastening element
8,739,797	Surgical draping system
8,708,939	Pronation/supination orthosis and method
8,690,944	Wedge apparatus for use in operating on bone
8,684,957	Apparatus and method for spinal distraction
8,679,043	Finger orthosis
8,663,145	Myofascial strap
8,641,726	Method for robotic arthroplasty using navigation
8,641,660	Methods and devices for controlling biologic microenvironments
8,623,030	Method of preparing a femur and tibia in knee arthroplasty
8,632,552	Robotic arthroplasty system including navigation
8,617,208	Method of using ultrasonic vibration to secure body tissue with fastening element
8,617,185	Fixation device
8,591,443	Elbow orthosis
8,591,442	Shoulder orthosis
8,591,441	Shoulder orthosis including flexion/extension
8,496,657	Methods for utilizing vibratory energy to weld, stake and/or remove implants
8,486,066	Spacer
8,482,436	Drag modification system
8,425,522	Joint replacement method
8,425,385	Resistance therapy
8,287,479	ROM device
8,273,043	Orthosis apparatus and method of using an orthosis apparatus
8,251,935	Ankle orthosis
8,251,934	Orthosis and method for cervical mobilization
8,206,329	ROM device
8,162,977	Method for joining implants
8,147,514	Apparatus and method for securing a portion of a body
8,133,229	Knee arthroplasty method
8,128,669	Method of securing tissue
8,066,656	ROM device
8,062,241	Myofascial strap
8,038,637	Finger orthosis
8,012,108	ROM system and method
7,990,287	Ultrasonic drag modulation
7,981,067	ROM device
7,967,820	Methods and devices for trauma welding
7,959,635	Limited incision total joint replacement methods
7,955,286	Elbow orthosis
7,955,285	Shoulder orthosis
7,931,690	Method of resurfacing an articular surface of a bone
7,896,880	Apparatus and method for tissue removal
7,892,261	Spinal implant and methods for changing spatial relationships between vertebrae

7,892,236	System and method for total joint replacement
7,879,072	Method for implanting a flowable fastener
7,854,750	Apparatus and method for securing a suture
7,837,736	Minimally invasive surgical systems and methods
7,828,852	Inlaid articular implant
7,806,897	Knee arthroplasty and preservation of the quadriceps mechanism
7,806,896	Knee arthroplasty method
7,780,670	Changing relationship between bones
7,755,519	Ultrasonic communication and drag modification
7,749,229	Total knee arthroplasty through shortened incision
7,727,283	Tissue stabilizing implant method
7,708,741	Method of preparing bones for knee replacement surgery
7,708,740	Method for total knee arthroplasty and resecting bone in situ
7,635,390	Joint replacement component having a modular articulating surface
7,615,054	Bicompartmental knee implant and method
7,510,557	Cutting Guide
7,497,864	Tissue fastener and methods for using same
7,481,831	Method of securing tissue
7,481,825	Apparatus and method for treating a fracture of a bone
7,462,200	Method for tissue grafting
7,452,342	Range of motion device
7,429,266	Method of using ultrasonic vibration to secure body tissue
7,404,804	Finger orthosis
7,329,263	Method and device for securing body tissue
7,328,055	Patient support apparatus
7,320,319	Medicant delivery system and method
7,311,719	Active cannulas
7,306,573	Neck brace
7,299,805	Scaffold and method for implanting cells
7,234,730	Traction control system
7,217,290	Surgical devices containing a heat bondable material with a therapeutic agent
7,217,273	Fluid operated retractors
7,208,013	Composite surgical devices
7,207,930	Exercise device
7,182,738	Patient monitoring apparatus and method for orthosis and other devices
7,147,652	Method and apparatus for securing a suture
7,134,437	Method for utilizing human tissue
7,128,753	Surgical devices having a polymeric material with a therapeutic agent and methods for making same
7,114,500	Surgical draping system
7,112,179	Orthosis
7,104,996	Method of performing surgery
7,094,251	Apparatus and method for securing a suture
7,087,073	Method of securing body tissue
7,070,557	Tissue graft material and method of making
7,048,755	Method and apparatus for securing a suture
7,004,959	Apparatus and method for use in positioning an anchor
7,001,385	Joint spacer with compartment for orthobiologic material
6,997,940	Bone suture assembly
6,990,982	Method for harvesting and processing cells from tissue fragments

6,989,029	Tissue cage
6,978,767	Active drag and thrust modulation system and method
6,958,048	Myofascial strap
6,955,683	Tissue fixation device
6,942,684	Method and apparatus for positioning an anchor member
6,932,835	Suture securing tool
6,929,616	Shoulder orthosis
6,921,377	Finger orthosis
6,908,466	Surgical devices having a biodegradable material with a therapeutic agent
6,905,517	Tissue grafting material
6,901,404	Accessing dissemination of litigation information publically available courts of law database over network
6,899,722	Suture anchor
6,882,877	Magnetic resonance imaging system and method
6,860,904	Method for tissue grafting
6,860,885	Method of securing tissue
6,835,198	Apparatus and method for tissue removal
6,824,108	Active drag modulation system and method
6,820,614	Tracheal Intubation
6,814,715	Expandable Cannula
6,793,177	Active drag and thrust modulation system and method
6,776,938	Method for forming implant containing tissue
6,770,078	Moveable knee implant and methods therefore
6,770,047	Method of using a neck brace
6,736,853	Method of using tissue cage
6,719,803	Method of forming and implanting a graft material containing tissue
6,719,765	Magnetic suturing system and method
6,702,856	Tissue press and system
6,702,821	Instrumentation for minimally invasive joint replacement and methods for using same
6,697,659	Apparatus and method for use in medical imaging
6,684,095	Apparatus and method for use in medical imaging
6,671,537	Apparatus and method for use in medical imaging
6,652,532	Apparatus and method for tissue removal
6,638,309	Tissue press and system
6,638,279	Method of positioning body tissue relative to a bone
6,635,073	Method of securing body tissue
6,630,000	Tissue press and system
6,620,181	Method of dissecting tissue layers
6,613,038	Method of using expandable cannula
6,607,534	Tissue engagement method
6,599,263	Shoulder orthosis
6,592,609	Method and apparatus for securing tissue
6,592,531	Surgical instrument positioning system
6,585,750	Method of using ultrasonic vibration to secure body tissue
6,575,982	Method and apparatus for use in operating on a bone
6,575,926	Myofascial Strap
6,572,635	Suture Anchor
6,569,187	Method and apparatus for securing a suture
6,543,455	Cell harvesting method
6,503,277	Method of transplanting human body tissue
6,503,267	Surgical devices assembled using heat bondable materials
6,503,213	Method of using a neck brace

6,502,577	Method for moving finger joints
6,500,195	Method and apparatus for anchoring a suture
6,475,230	Method and apparatus for securing a suture
6,468,293	Method and apparatus for securing a suture
6,468,289	Apparatus and method for tissue removal
6,464,713	Body tissue fastening
6,451,042	Method and apparatus for dissecting tissue layers
6,447,516	Method of securing tissue
6,428,562	Apparatus and method for use in positioning an anchor
6,423,063	Changing relationship between bones
6,368,343	Method of using ultrasonic vibration to secure body tissue
6,364,897	Method and apparatus for positioning a suture anchor
6,361,565	Expandable hip implant
6,358,266	Active cannulas
6,338,730	Method of using expandable cannula
6,312,448	Method and apparatus for positioning an anchor
6,309,405	Suture Anchor.
6,287,325	Method and apparatus for anchoring a suture.
6,277,136	Method for developing an anatomic space
6,238,395	Method of treating a fractured bone
6,231,592	Method and apparatus for securing a suture
6,217,617	Bone implant and method of securing
6,203,565	Surgical devices assembled using heat bondable materials
6,187,023	Method of dissecting tissue layers
6,174,313	Apparatus and method for tissue removal
6,171,299	Method of providing surgical access through an incision
6,171,236	Method of retracting soft tissue from a bone
6,159,234	Method and apparatus for securing a suture
6,152,949	Method for securing tissue with anchor
RE036974	Suture Anchor
6,141,579	Sequential imaging apparatus
6,132,472	Tissue press and system
6,117,160	Bone suture
6,113,562	Shoulder orthosis
6,102,928	Method of dissecting tissue layers
6,099,531	Changing relationship between bones.
6,086,593	Method and apparatus for use in operating on a bone
6,077,292	Method and apparatus for anchoring a suture.
6,059,817	Surgical devices assembled using heat bondable materials
6,056,773	Apparatus for anchoring a suture
6,056,772	Method and apparatus for positioning a suture anchor
6,045,551	Bone suture
6,044,289	Apparatus and method for controlling bending of a joint of a patient during imaging
6,042,596	Method of performing balloon dissection
6,033,430	Apparatus and method for use in positioning a suture anchor
6,017,305	Method of retracting bones
6,010,525	Method and apparatus for securing a suture
6,007,567	Suture anchor
5,989,282	Suture anchor
5,980,559	Suture anchor
5,961,499	Expandable cannula
5,954,739	Method of dissecting tissue layers
5,948,002	Apparatus and method for use in positioning a suture anchor

5,941,900	Method and apparatus for anchoring a suture
5,935,131	Apparatus and method for tissue removal
5,928,267	Interconnecting bone across a fracture
5,921,986	Bone suture
5,897,574	Suture anchor inserter assembly and method
5,888,219	Method of using human tissue with a tissue press and system
5,888,196	Mechanically expandable arthroscopic retractors
5,860,997	Method of dissecting tissue layers
5,848,979	Orthosis
5,845,645	Method of anchoring a suture
5,827,318	Method of dissecting tissue layers
5,814,073	Method and apparatus for positioning a suture anchor
5,814,072	Method and apparatus for use in anchoring a suture
5,782,862	Suture anchor inserter assembly and method
5,746,480	Armrest assembly
5,743,264	Method of imaging an ankle of a patient
5,735,875	Surgical devices assembled using heat bondable materials
5,733,306	Method and apparatus for anchoring a suture
5,718,717	Suture anchor
5,716,325	Arthroscopic retractors & method of using the same
5,713,921	Suture anchor
5,707,390	Arthroscopic retractors
5,694,951	Method for tissue removal and transplantation
5,685,830	Adjustable orthosis having one-piece connector section for flexing
5,685,826	Mechanically expandable arthroscopic retractors
5,674,240	Expandable cannula
5,667,520	Method of performing balloon dissection
5,662,710	Tissue press method of use
5,640,958	Method of imaging a patient's cervical spine
5,624,462	Bone implant and method of securing
5,611,764	Method of increasing range of motion
5,601,590	Expandable cannulas
5,597,208	Armrest assembly
5,593,425	Surgical devices assembled using heat bondable materials
5,584,862	Method and apparatus for anchoring a suture
5,577,517	Method of grafting human tissue particles
5,577,503	Apparatus and method for use in medical imaging
5,573,517	Expandable cannulas
5,569,305	Apparatus for anchoring a suture
5,562,094	Sequential imaging apparatus
5,549,683	Arthroplasty component
5,549,631	Method of closing discontinuity in tissue
5,549,630	Method and apparatus for anchoring a suture
5,545,222	Method using human tissue
5,542,423	Indexing assembly for joint imaging
5,534,012	Method and apparatus for anchoring a suture
5,527,343	Suture anchor
5,522,846	Suture anchor
5,514,153	Apparatus and method for use during surgery
5,514,143	Apparatus and method for use during surgery
5,503,619	Orthosis for bending wrists
5,496,348	Suture anchor
5,464,426	Method of closing discontinuity in tissue
5,456,268	Adjustable orthosis



5,454,365	Mechanically expandable arthroscopic retractors
5,453,075	Orthosis with distraction through range of motion
5,441,538	Bone implant and method of securing
5,407,249	Armrest assembly
5,403,348	Suture anchor
5,403,317	Apparatus and method for tissue removal
5,395,303	Orthosis with distraction through range of motion
5,365,947	Adjustable orthosis
5,349,956	Apparatus and method for use in medical imaging
5,345,927	Arthroscopic retractors
5,344,458	Arthroplasty component
5,343,580	Indexing assembly for shoulder imaging
5,331,975	Fluid operated retractors
5,329,924	Sequential imaging apparatus
5,329,846	Tissue press and system
5,320,611	Expandable cannula having longitudinal wire and method of use
5,295,994	Active cannulas
5,285,773	Orthosis with distraction through range of motion
5,269,785	Apparatus and method for tissue removal
5,215,282	Adjustable armrest assembly
5,213,094	Orthosis with joint distraction
5,197,971	Arthroscopic retractor and method of using the same
5,167,612	Adjustable orthosis
5,163,960	Surgical devices assembled using heat bondable materials
5,163,949	Fluid operated retractors
5,033,457	Air assisted medical devices

**PRESENTATIONS - SCIENTIFIC / COURSE FACULTY / VISITING PROFESSOR  
NATIONAL / INTERNATIONAL:**

1. The Postop Stiff Knee. 7<sup>th</sup> Annual Winter Technology & Innovation in Orthopedics Symposium. HSS Conference. Miami, FL. January 27-28, 2023.
2. Does Arthroscopic Surgery Work in the Arthritic Knee. 7<sup>th</sup> Annual Winter Technology & Innovation in Orthopedics Symposium. HSS Conference. Miami, FL. January 27-28, 2023.
3. Health Innovation and Entrepreneurship Panel Discussion. Case Western Reserve University School of Medicine Cleveland, OH November 18, 2022.
4. The Stiff Knee-When and How I Intervene. Annual Orthopedic Symposium. Holy Cross Orthopedic Institute. Ft. Lauderdale, FL. January 2020.
5. Total Joint Arthroplasty Pain Management. Annual Orthopedic Symposium. Holy Cross Orthopedic Institute. Ft. Lauderdale, FL. January 2020.
6. Novel Venous Thromboembolic Disease Prophylaxis for Knee Arthroplasty – Aspirin and Fish Oil. Paper Presentation. AAOS 2018 Annual Meeting. New Orleans, LA. March 2018.
7. Effects of Therapeutic Ultrasound on the Stability of Cemented Simulated Implants. Poster Presentation. AAOS 2018 Annual Meeting. New Orleans, LA. March 2018.
8. Accelerated Rehab Post Knee Arthroplasty Rehab (PT). Slovenia. February 2, 2018.
9. Accelerated Knee PT Protocols. Holy Cross Faculty Meeting. Ft. Lauderdale, FL. January 2018.

10. Case Presentations. Surgical Knee Technologies and Implant Choices. Holy Cross Faculty Meeting. Ft. Lauderdale, FL. January 2018.
11. Knee Anatomy. PT Session. Holy Cross Faculty Meeting. Ft. Lauderdale, FL. January 2018.
12. Total Knee Arthroplasty Fibrosis Following Arthroscopic Intervention. Poster Presentation. AAOS 2017 Annual Meeting. San Diego, CA. March 2017.
13. Innovation – Peter’s Principles Success through Failure Stryker Edison Program. Suffern, NY. December 2016.
14. Arthroscopy and Arthritis “Tool of the Devil”. Stryker PKA Surgeon Advisory Board Meeting. December 2016.
15. Ultrasound Treatment for Biofilm. TIPS – Technology Innovation for Physicians & Surgeons. Cleveland, OH. October 2016.
16. Ultrasonic Suture Welding. TIPS – Technology Innovation for Physicians & Surgeons. Cleveland, OH. October 2016.
17. Independent Development: What Does It Take? TIPS – Technology Innovation for Physicians & Surgeons. Cleveland, OH. October 2016.
18. Minimally Invasive – What Does That Mean? Holy Cross Faculty Meeting. Ft. Lauderdale, FL. February 2016.
19. Accelerated Therapy Protocols in the Bundled Environment. Holy Cross Faculty Meeting. Ft. Lauderdale, FL. February 2016.
20. Dr. Peter Bonutti History and Entrepreneurship. CEO Class. Effingham, IL. January 2016.
21. MIS Approach for TKR. Seattle, Washington. June 2015.
22. Outpatient Hip and Knee Replacement. Las Vegas, Nevada. March 2015.
23. Surgical Management of Avascular Necrosis of the Hip. Ft. Lauderdale, Florida. October 2014.
24. Challenging Cases in Total Knee Arthroplasty. Ft. Lauderdale, Florida. October 2014.
25. Minimal Invasive Surgery TKA. Ft. Lauderdale, Florida. October 2014.
26. JAS Story, Invention, Progress and Doctor Experiences and Business Entrepreneurship. Suzhou, China. August 2014.
27. Minimally Invasive Techniques in the Knee. Operative Meeting. Kirkland, WA. May 2014.
28. Navigation: Good to Great. 7<sup>th</sup> Annual Hip & Knee Course. Baltimore, Maryland. August 2013.
29. Constraint in Revision Total Knee Arthroplasty. 7<sup>th</sup> Annual Hip & Knee Course. Baltimore, Maryland. August 2013.
30. Outpatient Knee Replacement: Over My Dead Body. 7<sup>th</sup> Annual Hip & Knee Course. Baltimore, Maryland. August 2013.
31. Please Use My Own: OATS. 7<sup>th</sup> Annual Hip & Knee Course. Baltimore, Maryland. August 2013.
32. Unicompartamental Knee Arthroplasty – Case Presentation. 7<sup>th</sup> Annual Hip & Knee Course. Baltimore, Maryland. August 2013.
33. Revision Total Hip Arthroplasty – Case Presentation. 7<sup>th</sup> Annual Hip & Knee Course. Baltimore, Maryland. August 2013.

34. Therapeutic Recovery With the Use of JAS Products. Shanghai, China. April 2013.
35. Peter Bonutti, MD, FACS and Bonutti Clinic. Chengdu City and Changzhou City, China. April 2013.
36. Application of Joint Active Systems on Pediatric Habitation. Shanghai, China. April 2013.
37. MIS total knee arthroplasty Mini Subvastus Approach. Chengdu City and Changzhou City, China. April 2013.
38. Partial Knee Resurfacing – Tibiofemoral. Chengdu City and Changzhou City, China. April 2013.
39. Joint Active Systems. Mumbai, India. February 2013.
40. Health Insurance India. Mumbai, India. February 2013.
41. Research and Development – Bonutti Group. Mumbai, India. February 2013.
42. Creating, Protecting and Capitalizing on your Intellectual Property. Translating Innovations In Plastic Surgery From Bench to Bedside. Jackson Hole, WY. September 2012.
43. Single Use Instruments. New Technology for the Treatment of Adult Hip and Knee Disorders. Baltimore, MD. August 2012.
44. I Like It Smaller. New Technology for the Treatment of Adult Hip and Knee Disorders. Baltimore, MD. August 2012.
45. Lateral Uni: Should We Stop? New Technology for the Treatment of Adult Hip and Knee Disorders. Baltimore, MD. August 2012.
46. Subvastus: I Like To Save It All. New Technology for the Treatment of Adult Hip and Knee Disorders. Baltimore, MD. August 2012.
47. ACI: I Like My Own Cartilage. New Technology for the Treatment of Adult Hip and Knee Disorders. Baltimore, MD. August 2012.
48. Less Invasive Approach in Total Knee Arthroplasty and Rationale. University of Arkansas. Little Rock, Arkansas. June 2012
49. Patient Selection and Outcomes in UKA. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. April 2012.
50. New Polyethylene: What's The Evidence? Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. April 2012.
51. Managing Hardware in TKA. Annual Advances in Arthritis, Arthroplasty & Trauma, St. Louis, MO. April 2012.
52. Constraint in Revision TKA. Annual Advances in Arthritis, Arthroplasty & Trauma, St. Louis, MO. April 2012.
53. Basic Concepts in Revision TKA - Case Presentation & Panel Discussion. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. April 2012.
54. Unicondylar Replacement - Case Presentation & Panel Discussion. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. April 2012.
55. Improving Flexion - Case Presentation & Panel Discussion. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. April 2012.
56. Controversies in TKA - Case Presentation & Panel Discussion. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. April 2012.

57. Revision TKA Fundamentals - Case Presentation & Panel Discussion. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. April 2012.
58. Special Circumstances & Evolving Trends - Case Presentation & Panel Discussion. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. April 2012.
59. Advances in TKA Fundamentals - Case Presentation & Panel Discussion. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. April 2012.
60. The Infected TKA - Case Presentation & Panel Discussion. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. April 2012.
61. Orthopedic Innovation and Conflicts of Interests. University of Toronto Wide Rounds, Toronto, Canada. March 2012.
62. Rationale for Minimally Invasive TKA. University of Toronto Wide Rounds, Toronto, Canada. March 2012.
63. A Prospective Randomized Comparison of Unicompartmental TKA to TKA in the Same Patient. Paper Presentation. AAOS 2012 Annual Meeting. San Francisco, CA. February 2012.
64. Bariatric Orthopaedics: Total Knee Replacement with a Body Mass Index Greater Than 50 kg/m<sup>2</sup>. Poster Presentation. AAOS 2012 Annual Meeting. San Francisco, CA. February 2012.
65. Chronic Lumbosacral Disease May Impair Function Following Total Knee Arthroplasty. Poster Presentation. AAOS 2012 Annual Meeting. San Francisco, CA. February 2012.
66. Disposable Cutting Blocks and Trials Decrease Contamination and Lower Costs in Primary TKA. Poster Presentation. AAOS 2012 Annual Meeting. San Francisco, CA. February 2012.
67. Increased Revision Rates Following Total Knee Arthroplasty in Patients Who Smoke. Poster Presentation. AAOS 2012 Annual Meeting. San Francisco, CA. February 2012.
68. TKA US Trends. Joint Replacement Update 2012 & Triathlon Course. Tokyo, Japan. January 2012.
69. Future Technology: Shape Match Precision. Joint Replacement Update 2012 & Triathlon Course. Tokyo, Japan. January 2012
70. Clinical Experience of Total Hip Arthroplasty Using Next Generation Highly Crosslinked Polyethylene X3 in US. Joint Replacement Update 2012 & Triathlon Course. Tokyo, Japan. January 2012
71. Indications of UKA and TKA. Joint Replacement Update 2012 & Triathlon Course. Tokyo, Japan. January 2012
72. Approach and Rationale For Minimally Invasive TKA. Joint Replacement Update 2012 & Triathlon Course. Tokyo, Japan. January 2012
73. MIS TKA Mini Subvastus Approach: Video Presentation. Joint Replacement Update 2012 & Triathlon Course. Tokyo, Japan. January 2012
74. The Effect of Traditional vs. Single Use Instrumentation on OR Efficiency, Contamination, and Costs in Primary TKA. Poster Presentation. International Society for Technology in Arthroplasty. Bruges, Belgium. September 2011.
75. Creating A More Efficient OR. Triathlon Custom Fit Knee-Shape Match Technology Meeting. Baltimore, MD. August 2011.
76. Therapeutic Recovery With the Use of JAS Products. National Sports Therapy Seminar. Shanghai, China. August 2011.

77. Deep Vein Thrombosis. St. Anthony Memorial Hospital. Department of Medicine Meeting. Effingham, IL. August 2011.
78. Subvastus/Midvastus and Other Minimally Invasive. Surgical Demonstration. Rosemont, IL. April 2011.
79. Applying the MD/PA Team to Total Shoulder Procedures. Rosemont, IL. April 2011.
80. Total Shoulder Arthroplasty – Video. Rosemont, IL. April 2011.
81. Knee Arthritis: What To Do When? St. Louis, MO. March 2011.
82. Computer-Assisted Surgery in TKA. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. March 2011.
83. Cemented TKA - Optimizing Outcomes. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. March 2011.
84. MIS in TKA - Outcomes. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. March 2011.
85. Mono-Compartmental Knee Arthritis: What to do When. Panel Discussion and Case Presentation. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. March 2011.
86. Partial Knee Replacement, Medial & Lateral. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. March 2011.
87. Arthroscopy & Arthritis: Pearls and Pitfalls. Annual Advances in Arthritis, Arthroplasty & Trauma. St. Louis, MO. March 2011.
88. A Minimally Invasive Approach Is Best for Most Patients Today. AAOS Annual Meeting. Knee Society AAHKS Specialty Day. San Diego, CA. February 2011.
89. Treatment Algorithm for Osteonecrosis of the Knee. Science Exhibit. AAOS Annual Meeting. San Diego, CA. February 2011.
90. Overview of New Technologies In Total Knee Arthroplasty: Current Options and Future Directions, Science Exhibit. AAOS Annual Meeting. San Diego, CA. February 2011.
91. Disposable Instruments in Joint Arthroplasty, Fad or Future? Great Expectations Course. New York, NY. December 2010.
92. Clinical Performance and Satisfaction. Are We Measuring the Right Thing? Great Expectations Course. New York, NY. December 2010.
93. Minimally Invasive Surgery: We Can Use Any Stem. 4<sup>th</sup> Annual Hip Joint Course. Baltimore, MD. August 29, 2010.
94. Clinical Experience of X3 Polyethylene. Japanese Orthopedic Association International Forum. Tokyo, Japan. May 29, 2010.
95. Clinical Experience of Total Hip Arthroplasty Using 3<sup>rd</sup> Generation Highly Crosslinked Polyethylene. Japanese Orthopedic Association International Forum. Tokyo, Japan. May 28, 2010
96. Principles of Stress Relaxation and Range of Motion Therapy. Kleinert Institute for Hand and Microsurgery. Louisville, KY. March 23, 2010.
97. UKA in Obese Patients Who Have Body Mass Index of 35 kg/m<sup>2</sup> or Greater: A Comparison Study. Paper Presentation. AAOS Annual Meeting. New Orleans, LA. March 11, 2010.

98. Chronic Opioid Use Prior to Total Knee Arthroplasty. Paper Presentation. AAOS Annual Meeting. New Orleans, LA. March 11, 2010.
99. All Commercially Available Solutions Effective Against Methicillin-Resistant Staphylococcus Aureus? Paper Presentation. AAOS Annual Meeting. New Orleans, LA. March 11, 2010.
100. Patient Selection, Preoperative Planning and Surgical Approaches and Future of MIS TKA. Instructional Course Lecture. AAOS Annual Meeting. New Orleans, LA. March 10, 2010.
101. Overview of Alternative Bearings in Total Hip Arthroplasty. Science Exhibit. AAOS Annual Meeting. New Orleans, LA. March 9, 2010.
102. Athletic Activity Following Total Hip Arthroplasty; Assessment and Outcomes. Science Exhibit. AAOS Annual Meeting. New Orleans, LA. March 9, 2010.
103. Tourniquet Use During Total Knee Arthroplasty. Poster Presentation. AAOS Annual Meeting, New Orleans, LA. March 9, 2010.
104. Bonutti Group: 20 Years of Innovation in Effingham. Effingham Sunrise Rotary. Effingham, IL. November 24, 2009.
105. Unicompartamental Knee Arthroplasty. Grand Rounds SIU School of Medicine. Springfield, IL. November 16, 2009.
106. PKR Design Rationale And Early Experience. Triathlon PKR Partial Knee Resurfacing Roadshow. London, England. October 14, 2009.
107. PKR Design Rationale And Early Experience. Triathlon PKR Partial Knee Resurfacing Roadshow. Manchester, United Kingdom. October 13, 2009.
108. Design Concept And Clinical Experience. Japan Triathlon Launch Meeting. Osaka, Japan. August 30, 2009.
109. MIS with Triathlon Instrumentation. Japan Triathlon Launch Meeting. Osaka, Japan. August 30, 2009.
110. Inventing Orthopedics In A Regulated Environment. Research & Basic Science Days 2009. Cleveland, OH. June 4, 2009.
111. Unicompartamental Knee Arthroplasty: Pros & Cons. University of Arkansas. Little Rock, AK. May 19, 2009.
112. Triathlon PKR Experience, Early Results. Triathlon Champion's Symposium. New Orleans, LA. May 10, 2009.
113. Introducing Triathlon PKR. Great Expectations: Patients, Prosthesis, and Practitioners. Prague, Czechoslovakia. March 22, 2009.
114. Partial Knee Resurfacing - Tibiofemoral. Great Expectations: Patients, Prosthesis, and Practitioners. Prague, Czechoslovakia. March 22, 2009.
115. MIS, Meeting Expectations. Great Expectations: Patients, Prosthesis, and Practitioners. Prague, Czechoslovakia. March 22, 2009.
116. The Future of MIS TKA, Tips & Tricks. Instructional Course Lecture. AAOS Annual Meeting, Las Vegas, NV. February 27, 2009.
117. Minimally Invasive Knee Arthroplasty - Patient Selection, Preoperative Planning and Surgical Approaches. Instructional Course Lecture. AAOS Annual Meeting, Las Vegas, NV. February 27, 2009.

118. Static Progressive Stretch For The Treatment Of Knee Stiffness Following Total Knee Arthroplasty. Paper Presentation. AAOS Annual Meeting, Las Vegas, NV. February 27, 2009.
119. Femoral Notch Stenosis By Soft Tissue Impingement In Semi-Or-Open-Box Posterior Stabilized Total Knee Arthroplasty. Paper Presentation. AAOS Annual Meeting, Las Vegas, NV. February 27, 2009.
120. Evaluation of Static Progressive Stretch For The Treatment of Wrist Stiffness. Paper Presentation. AAOS Annual Meeting, Las Vegas, NV. February 27, 2009.
121. A Comparison Of Subvastus And Midvastus Approaches In Total Knee Arthroplasty. Paper Presentation. AAOS Annual Meeting, Las Vegas, NV. February 27, 2009.
122. Shoulder Resurfacing: Past, Present, and Future. Science Exhibit. AAOS Annual Meeting, Las Vegas, NV. February 27, 2009.
123. Effect of Obesity on Clinical Success and Patient Satisfaction in Total Hip Arthroplasty. Poster Presentation. AAOS Annual Meeting, Las Vegas, NV. February 27, 2009.
124. Future of Knee Arthroplasty. 2008 Pennsylvania Orthopedic Society Fall Session. Philadelphia, Pennsylvania. November 21, 2008.
125. Physician Industry Relationship. 2008 Pennsylvania Orthopedic Society Fall Session. Philadelphia, Pennsylvania. November 20, 2008.
126. Bringing New products Into Practice. 2008 Pennsylvania Orthopedic Society Fall Session. Philadelphia, Pennsylvania. November 20, 2008.
127. What's Important About One Company For All Your Needs? Ortho Futures Meeting. Dallas, Texas. November 16, 2008.
128. EMR and the Orthopedic Workflow. Ortho Futures Meeting. Dallas, Texas. November 16, 2008.
129. OR Efficiencies In A Community Setting. Ortho Futures Meeting. Dallas, Texas. November 16, 2008.
130. Impact of Minimally Invasive Surgery on Patient Recovery & Hospital Stay. EFORT 2008 Satellite Symposium. Nice, France. May 31, 2008.
131. Short and Long Term Goals / Concepts & Future Direction. EAS Knee Summit. Waltham, MA. March 28, 2008.
132. Navigated TKA Versus Mini Incision. AAOS Annual Meeting, Specialty Day Knee Society, San Francisco, CA. March 8, 2008.
133. The Future of MIS TKA, Tips & Tricks. Instructional Course Lecture. AAOS Annual Meeting, San Francisco, CA. March 7, 2008.
134. Minimally Invasive Knee Arthroplasty - Patient Selection, Preoperative Planning and Surgical Approaches. Instructional Course Lecture. AAOS Annual Meeting, San Francisco, CA. March 7, 2008.
135. Navigation Assisted TKA Versus Minimally Invasive TKA: Benefits & Drawbacks. Paper Presentation. AAOS Annual Meeting, San Francisco, CA. March 6, 2008.
136. Computer Assisted Surgery in Total Joint Arthroplasty: Complications, Pitfalls & Solutions. Science Exhibit. AAOS Annual Meeting, San Francisco, CA. March 5-8, 2008.
137. Evaluation of an All Polyethylene Tibial Component Design in UKA. Poster Presentation. AAOS Annual Meeting, San Francisco, CA. March 5-8, 2008.

138. The Use of Stress Relaxation and Static Progressive Stretch in Postoperative Wrist Contractures. Poster Presentation. AAOS Annual Meeting, San Francisco, CA. March 5-8, 2008.
139. Stress Relaxation and Static Progressive Stretch in the Treatment of shoulder contractures. Poster Presentation. AAOS Annual Meeting, San Francisco, CA. March 5-8, 2008.
140. Does Functional Improvement Following Total Knee Arthroplasty Correlate to Increased Sports Activity? Poster Presentation. AAOS Annual Meeting, San Francisco, CA. March 5-8, 2008
141. Unicompartamental Knee Replacement. Advances in Surgical Technology. New York, NY. December 1, 2007.
142. Achieving Optimal Fit And Motion in the Compromised Knee. Advances in Surgical Technology. New York, NY. December 1, 2007.
143. US Experience with Resurfacing – Cormet. 1<sup>st</sup> Annual US Comprehensive Course on Total Hip Resurfacing Arthroplasty. Annapolis, Maryland. November 9, 2007.
144. Unicompartamental Knee Arthroplasty: What Are The Reasons for Early Failure?. Poster Presentation. AAHKS Annual Meeting. Dallas, Texas. November 2-4, 2007.
145. Treatment of the Infected TKA. AAOS Knee Arthroplasty: Uni, Total & Revision Insights. New Techniques - What You Need To Know Course. Rosemont, IL. October 5, 2007.
146. Exposure And Cement Removal. Annual Advances In Arthritis, Arthroplasty And Trauma Course. Washington, DC. September 29, 2007.
147. Minimally Invasive Surgery: Size Matters. Annual Advances In Arthritis, Arthroplasty And Trauma Course. Washington, DC. September 29, 2007.
148. Surgical Management Of The Young Arthritic Knee. Case Presentation. Annual Advances In Arthritis, Arthroplasty And Trauma Course. Washington, DC. September 29, 2007.
149. Controversies in Primary TKA: Rapid Fire. Case Presentation. Annual Advances In Arthritis, Arthroplasty And Trauma Course. Washington, DC. September 28, 2007.
150. Mini Midvastus Approach. AAOS Minimally Invasive Hip & Knee Arthroplasty. Technique & Computer Navigation Course. Rosemont, IL. June 22, 2007.
151. Osteonecrosis Of The Knee After Laser And Radiofrequency-Assisted Arthroscopy: Treatment With Minimally Invasive Knee Arthroplasty. E-Poster. 6<sup>th</sup> Biennial ISAKOS Congress. Florence, Italy. May 29 - June 2, 2007.
152. Minimally Invasive TKA: Complications & Pitfalls. 6<sup>th</sup> Biennial ISAKOS Congress. Florence, Italy. May 29, 2007.
153. MIS. Surgical Technique: MIS & Navigation. 6<sup>th</sup> Biennial ISAKOS Congress. Florence, Italy. May 29, 2007.
154. Clinical Experience Using A Minimally Invasive Surgical Approach for TKA: Early Results Of A Prospective Randomized Multicenter Study Compared To A Standard Approach. E-Poster. 6<sup>th</sup> Biennial ISAKOS Congress. Florence, Italy. May 29 - June 2, 2007.
155. Minimally Invasive Valgus Approach To TKA: A Comparative Study. E-Poster. 6<sup>th</sup> Biennial ISAKOS Congress. Florence, Italy. May 29 - June 2, 2007.
156. Navigation in TKA: Pros & Cons. Asia Pacific Knee Symposium. Macau, China. April 29, 2007.
157. Infection in TKA. Asia Pacific Knee Symposium. Macau, China. April 28, 2007.
158. Mobile Bearings: Are They Worth It? Asia Pacific Knee Symposium. Macau, China. April 28,



2007.

159. Patient Selection For Osteotomy Vs. UKA Vs. TKA. Asia Pacific Knee Symposium. Macau, China. April 28, 2007.
160. MIS TKA Scorpio - How To Get It Right The First Time & Future Of MIS TKA. Asia Pacific Knee Symposium. Macau, China. April 27, 2007.
161. Arthroscopic Assisted TKA: Indications And Effectiveness. E-Poster. AANA Macau, China. April 26, 2007.
162. Comparison of a Midvastus & Subvastus Approach to TKA. Poster Presentation. Mid-America Orthopaedic Association. Boca Raton, FL. April 10-14, 2007.
163. Unicompartmental Knee Arthroplasty: Implant Survival & Risk Factors At 11 Year Followup. Poster Presentation. Mid-America Orthopaedic Association. Boca Raton, FL. April 10-14, 2007.
164. Osteotomies. State of the Art in Orthopedics. Snowmass Village, CO. March 23, 2007.
165. Exposure in Revision TKA. State of the Art in Orthopedics. Snowmass Village, CO. March 22, 2007.
166. Minimally Invasive Total Knee Arthroplasty Using The Contralateral Knee As A Control Group. Paper Presentation. AAOS Annual Meeting, San Diego, CA. February 16, 2007.
167. Minimally Invasive Total Knee Arthroplasty: The Mini Midvastus Approach. Multi Media. AAOS Annual Meeting, San Diego, CA. February 16, 2007.
168. Minimally Invasive Total Knee Arthroplasty: The Mini Subvastus Approach. Multi Media. AAOS Annual Meeting, San Diego, CA. February 16, 2007.
169. Minimally Invasive Knee Arthroplasty: Early Complications And Difficulty. Science Exhibit. AAOS Annual Meeting, San Diego, CA. February 14-17, 2007.
170. Inventing Orthopedics From Basic Design To Working Product. Science Exhibit. AAOS Annual Meeting, San Diego, CA. February 14-17, 2007.
171. The Use Of An Alumina-On-Alumina Bearing System In THA For Avascular Necrosis Of The Hip. Poster Exhibit. AAOS Annual Meeting, San Diego, CA. February 14-17, 2007.
172. Unicompartmental Knee Arthroplasty: Implant Survival & Risk Factors. Poster Exhibit. AAOS Annual Meeting, San Diego, CA. February 14-17, 2007.
173. Mini Approaches. Video Presentation. V International Course In Arthroplasties. Barcelona, Spain. December 2, 2006.
174. Pitfalls & Complications of MIS TKA. V International Course In Arthroplasties. Barcelona, Spain. December 1, 2006.
175. MIS TKA: Selecting The Best Approach. V International Course In Arthroplasties. Barcelona, Spain. December 1, 2006.
176. Mobile Bearings: Are They Worth It? V International Course In Arthroplasties. Barcelona, Spain. November 30, 2006.
177. Femoral & Tibial Alignment With MIS in TKA. Advances in Surgical Technology. Orthopaedics Today. New York, New York. November 11, 2006.
178. Hip Kinematics With Navigation. Advances in Surgical Technology. Orthopaedics Today. New York, New York. November 11, 2006.

179. Highly Crosslinked Polyethylene In Hips & Clinical Results for Ceramic THA. Taiwan Orthopaedic Association Meeting. Taipei, Taiwan. October 28, 2006.
180. Complications of Minimally Invasive TKA: Management & Prevention. Taiwan Orthopaedic Association Meeting. Taipei, Taiwan. October 28, 2006.
181. Minimally Invasive TKA: Selecting The Best Approach & The Future TKA Concepts of Procedural Simplification. Taiwan Orthopaedic Association Meeting. Taipei, Taiwan. October 28, 2006.
182. Techniques in MIS TKA. Taiwan Orthopaedic Association Meeting. Taipei, Taiwan. October 27, 2006.
183. Complications of Minimally Invasive TKA: Management & Prevention. Grand Rounds Phamongkut Hospital. Bangkok, Thailand. October 25, 2006.
184. Highly Crosslinked Polyethylene in Hips & Clinical Results for Ceramic THA. Grand Rounds Phamongkut Hospital. Bangkok, Thailand. October 25, 2006.
185. MIS TKA: Selecting the Best Approach & Future TKA Concepts of Procedural Simplification. Grand Rounds Leardsin Hospital. Bangkok, Thailand. October 24, 2006.
186. Complications of Minimally Invasive TKA: Management & Prevention. Grand Rounds Leardsin Hospital. Bangkok, Thailand. October 24, 2006.
187. Highly Crosslinked Polyethylene in Hips & Clinical Results for Ceramic THA. Grand Rounds Leardsin Hospital. Bangkok, Thailand. October 24, 2006.
188. MIS TKA With Computer Navigation: Nuisance Or Necessity. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 23, 2006.
189. Future Of MIS: Where Are We Heading? ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 23, 2006.
190. Limitations & Complications in Minimally Invasive Surgery. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 23, 2006.
191. MIS TKA - Techniques. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 23, 2006.
192. Revision TKA Cases. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 22, 2006.
193. Patient Demands & Expectations: Are They Changing? ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 21, 2006.
194. High Flex TKA: Do They Make A Difference? ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 21, 2006.
195. MIS TKA: Selecting The Best Approach + Navigation. Lunch Symposia. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 21, 2006.
196. Implant Choices in Revision TKA. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 21, 2006.
197. Exposures in MIS TKA. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 21, 2006.
198. What's On The Horizon: MIS TKA. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 20, 2006.
199. Infection in TKA. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 20, 2006.
200. Patient Selection For Osteotomy Vs. UKA Vs TKA. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 20, 2006.

201. Early Treatment Options Knee OA. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 20, 2006.
202. Selecting The Best Approach. ASEAN / OA / AAOS ICL Program. Pattaya, Thailand. October 20, 2006.
203. MIS TKA With Computer Navigation: Nuisance or Necessity. 19<sup>th</sup> Annual Symposium, International Society For Technology In Arthroplasty. New York, NY. October 8, 2006.
204. Complications of Minimally Invasive TKA: Management & Prevention. 4<sup>th</sup> Congress of Asia-Pacific Knee Society. Seoul, Korea. September 22, 2006.
205. Minimally Invasive TKA: Selecting the Best Approach. 4<sup>th</sup> Congress of Asia-Pacific Knee Society. Seoul, Korea. September 22, 2006.
206. How to Avoid Patellofemoral Complications in TKA. Contemporary Challenges & Techniques In Total Hip & Knee Arthroplasty. Xian, China. September 22, 2006.
207. Exposure in Revision TKA. Contemporary Challenges & Techniques In Total Hip & Knee Arthroplasty. Xian, China. September 16, 2006.
208. MIS Pitfalls & Complications. Contemporary Challenges & Techniques In Total Hip & Knee Arthroplasty. Xian, China. September 16, 2006.
209. MIS TKA: An Update. Contemporary Challenges & Techniques In Total Hip & Knee Arthroplasty. Xian, China. September 16, 2006.
210. Mobile Bearings: Are They Worth It? Contemporary Challenges & Techniques In Total Hip & Knee Arthroplasty. Xian, China. September 16, 2006.
211. MIS TKA: Selecting the Best Approach. University of Arkansas. Little Rock, Arkansas. August 22, 2006.
212. Selecting The Best Approach for Less Invasive TKA. JOSKAS 2006 Combined Congress of the Japanese Orthopedic Society of Knee Arthroscopy & Sports Medicine. Okinawa, Japan. June 8, 2006.
213. MIS TKA with Computer Navigation – Nuisance or Necessity? JOSKAS 2006 Combined Congress of the Japanese Orthopedic Society of Knee Arthroscopy & Sports Medicine. Okinawa, Japan. June 8, 2006.
214. Total Knee Arthroplasty – Subvastus Approach. Visiting Professor – Kobe Univeristy. Osaka Japan. June 6, 2006.
215. Mini Midvastus. AAOS Minimally Invasive Hip and Knee Replacement: Surgical Techniques and Computer Navigation Course. Rosemont, IL. May 5, 2006.
216. MIS TKA: Technique / Results. AAOS/AAHKS Impact on Evolving Technology on Hip & Knee Arthritis & Reconstruction. Ponte Verda Beach, FL. April 22, 2006.
217. High Flex TKA: Do They Make A Difference? AAOS?AAHKS Impact on Evolving Technology on Hip & Knee Arthritis & Reconstruction. Ponte Verda Beach, FL. April 21, 2006.
218. Polyethylene Bearing Surfaces in TKA: Contemporary Clinical Issues. AAOS/AAHKS Impact on Evolving Technology on Hip & Knee Arthritis & Reconstruction. Ponte Verda Beach, FL. April 21, 2006.
219. Minimally Invasive Total Knee Arthroplasty: Pitfalls & Complications. Paper Presentation. AAOS Annual Meeting, Chicago, IL. March 23, 2006.
220. Ceramic On Ceramic Hip Arthroplasties: Effects of Cup Inclination on Revision Rates. Poster

Exhibit. AAOS Annual Meeting, Chicago, IL. March 22-25, 2006.

221. Arthroscopic Assisted Total Knee Arthroplasty. Poster Exhibit. AAOS Annual Meeting, Chicago, IL. March 22-25, 2006.
222. Limitations & Complications in Minimally Invasive Surgery. XV International Course on Osteoarticular Reconstructive Surgery. Madrid, Spain. March 3, 2006.
223. The Future of MIS. Where Are We Heading? XV International Course on Osteoarticular Reconstructive Surgery. Madrid, Spain. March 3, 2006.
224. MIS TKA: How I Do It. Controversies in Primary Knee Arthroplasty. State of the Art in Orthopedics. Snowmass, CO. February 17, 2006.
225. Early Treatment Options. Controversies in Primary Knee Arthroplasty. State of the Art in Orthopedics. Snowmass, CO. February 17, 2006.
226. Mobile Bearings: Are They Worth It? Controversies in Primary Knee Arthroplasty. State of the Art in Orthopedics. Snowmass, CO. February 16, 2006.
227. MIS TKA My Experience. Innovations on TKA MIS & Navigation Meeting. Aviles, Spain. February 10, 2006.
228. MIS TKA Approaches. Innovations on TKA MIS & Navigation Meeting. Aviles, Spain. February 10, 2006.
229. Minimally Invasive TKA. Stryker National Sales Meeting. Phoenix, AZ. January 21, 2006.
230. What Are We Missing? New Hip / Knee Recon. Stryker Inventor Consultant Meeting. New York, NY. January 13, 2006.
231. Patient Selection for Osteotomy Versus Unicompartmental TKA. AAOS Knee Arthroplasty Insight & Evaluation of New Techniques Course. Rosemont, IL. December 2, 2005.
232. Minimally Invasive Total Knee Replacement. Center for Medicare & Medicaid Services. Members of the Acute Care Division. Mahwah, New Jersey. November 15, 2005.
233. MIS TKA: What is on the Horizon. Australian Orthopedic Association, 65<sup>th</sup> Annual Scientific Meeting. Melbourne, Australia. October 14, 2005.
234. Pitfalls & Complications of MIS TKA. Australian Orthopedic Association, 65<sup>th</sup> Annual Scientific Meeting. Melbourne, Australia. October 13, 2005.
235. Arthroscopic Guided Knee Replacement Surgery: Outcomes and Challenges. Australian Orthopedic Association, 65<sup>th</sup> Annual Scientific Meeting. Melbourne, Australia. October 13, 2005.
236. Minimal Incision TKA with Suspended Leg Technique. Australian Orthopedic Association, 65<sup>th</sup> Annual Scientific Meeting. Melbourne, Australia. October 13, 2005.
237. Selecting The Best Approach. 35<sup>th</sup> Annual Arthroplasty Course. Harvard Medical School. Cambridge, MA. September 30, 2005.
238. Polyethylene: A New Technology to Eliminate Tradeoffs. 35<sup>th</sup> Annual Arthroplasty Course. Harvard Medical School. Cambridge, MA. September 28, 2005.
239. Navigation: Pros And Cons. Surgical Decisions & Advancements in Primary Hip & Knee Reconstruction. Chicago, IL. September 15, 2005.
240. Selecting The Best Approach - MIS. Surgical Decisions & Advancements in Primary Hip & Knee Reconstruction. Chicago, IL. September 15, 2005.

241. MIS TKA: How I Do It. 5<sup>th</sup> Annual Arthroplasty Course: Hip & Knee. Minneapolis, MN. June 4, 2005.
242. Pitfalls & Complications of Mini & Quad Sparring: Top 10 Mistakes. MIS Meets CAOS. Indianapolis, IN. May 21, 2005.
243. How to Classify Approaches of the Knee. MIS Meets CAOS. Indianapolis, IN. May 21, 2005.
244. MIS TKA. Slovenian World Congress. Nova Mesto, Slovenia. May 19, 2005.
245. Lateral Approach. High Performance Knee Meeting. Seville, Spain. May 14, 2005.
246. Will Navigation Improve Performance? High Performance Knee Meeting. Seville, Spain. May 14, 2005.
247. Do We Need to Navigate TKA With MIS Procedure? 4<sup>th</sup> International Congress. Rome. May 13, 2005.
248. Arthroscopy + Arthroplasty. Endo Assisted TKA & THA Lab. San Jose, CA. April 13, 2005.
249. Complications of MIS TKA. 5<sup>th</sup> Biennial ISAKOS Congress. Hollywood, FL. April 6, 2005.
250. My Experience with MIS. State of the Art in Orthopaedics. Snowmass, CO. March 15, 2005.
251. Workup of the Painful Knee. State of the Art in Orthopaedics. Snowmass, CO. March 15, 2005.
252. Face Off: Clinical Counterpoints - New Techniques and Controversies in Orthopedic Surgery and Pain Management. Stryker / Pfizer CME Program. Washington, DC. February 24, 2005.
253. Less & Minimally Invasive Joint Replacement: Fact & Fiction. Instructional Course. AAOS, Washington, DC. February 24, 2005.
254. MIS for Knee Reconstruction: Pitfalls & Complications. Instructional Course. AAOS Annual Meeting, Washington, DC. February 24, 2005.
255. Minimally Invasive Lateral Approach to Total Knee Arthroplasty. Paper Presentation. Co-Author. AAOS Annual Meeting, Washington, DC. February 24, 2005.
256. The Use of The Suspended Leg Minimally Invasive Technique for Total Knee Arthroplasty. Paper Presentation. AAOS Annual Meeting, Washington, DC. February 23, 2005.
257. Multi Center Study - Comparison of Standard to Minimally Invasive Total Knee Arthroplasty. Paper Presentation. AAOS Annual Meeting, Washington, DC. February 23, 2005.
258. Limited Approach Total Knee Arthroplasty: A Comparison Study. Poster Presentation. AAOS Annual Meeting, Washington, DC. February 23-26, 2005.
259. MIS TKA And Its Complications. Current Advances In Surgery. Cancun, Mexico. December 9, 2004.
260. MIS THA - Posterior Approach. Current Advances In Surgery. Cancun, Mexico. December 9, 2004.
261. Bearing Surface in THA - Ceramic on Ceramic. Current Advances In Surgery. Cancun, Mexico. December 9, 2004.
262. Restoring Wrist Flexion / Extension Using Principles of Stress Relaxation / Static Progressive Stretch. Current Advances In Surgery. Cancun, Mexico. December 7, 2004.
263. A Midvastus Approach to Total Knee Arthroplasty. An Evening with Dr. Rothman and Dr. Bonutti. Fort Lauderdale, Florida. November 18, 2004.

264. Minimally Invasive Total Knee Arthroplasty Utilizing the Suspended Leg Technique. 48<sup>th</sup> Annual Edward T Smith Orthopedic Lectureship Meeting. Houston, Texas. November 5, 2004.
265. Minimally Invasive Total Knee Arthroplasty: Pitfalls and Complications. Ontario Orthopaedic Association. Toronto, Ontario. October 30, 2004.
266. MIS for Total Knee Arthroplasty: Technique and Results. Ontario Orthopaedic Association. Toronto, Ontario. October 29, 2004.
267. How Does the Individual Surgeon Interact with Industry? ISAKOS Global Leadership Retreat. Tyngsboro, Massachusetts. October 8, 2004.
268. The Midvastus Approach and MIS TKA. Advances in Arthroplasty. The Battle of the Bearing Surfaces and Surgical Techniques. Harvard Medical School. Cambridge, Massachusetts. October 1, 2004.
269. Minimally Invasive Arthroplasty: Current Concepts. University of Arkansas. Little Rock, Arkansas. September 28, 2004.
270. Minimally Invasive Total Knee Arthroplasty. First Orthopaedic Alumni Conference. Cleveland, Ohio. September 23, 2004.
271. Advantages & Risks of Rapid Rehabilitation Following Minimally Invasive THA. Minimally Invasive Joint Replacement: State of the Art. Houston, Texas. September 18, 2004.
272. MIS Surgical Approaches to the Knee: What Are They? Minimally Invasive Joint Replacement: State of the Art. Houston, Texas. September 17, 2004.
273. Complications of Minimally Invasive TKA: Management & Prevention. Minimally Invasive Joint Replacement: State of the Art. Houston, Texas. September 17, 2004.
274. My Experience With Minimally Invasive Surgery. Emmanuel Hospital. Berlin, Germany. June 23, 2004.
275. The Ten Steps Procedure Development. Scorpio - Navigation - MIS Surgeon Debate / Discussion. London, England. June 21, 2004.
276. Conventional MIS. Scorpio - Navigation - MIS Surgeon Debate / Discussion. London, England. June 21, 2004.
277. Potential Advantages of MIS TKA & Experience. An Evening of Minimally Invasive Total Knee Arthroplasty. Toronto, Ontario. May 20, 2004.
278. Mediates MIS Approach. An Evening of Minimally Invasive Total Knee Arthroplasty. Toronto, Ontario. May 20, 2004.
279. Mini Incision TKR - Pearls. The Knee: Ligament and Arthritis Surgery. Minneapolis, MN. May 15, 2004.
280. Minimally Invasive Total Hip and Total Knee Arthroplasty. Instructional Course Lecture. Mid America Orthopaedic Association. La Quinta, California. April 17, 2004.
281. The Use of the Suspended Leg, Minimally Invasive Techniques for Total Knee Arthroplasty: A Comparison Study. Paper Presentation. Mid America Orthopaedic Association. La Quinta, California. April 16, 2004.
282. Minimally Invasive Total Knee Arthroplasty - Two Year Followup. Poster Presentation. Mid America Orthopaedic Association. La Quinta, California. April 14-17, 2004.
283. Minimally Invasive Total Knee Arthroplasty. Louisville Orthopedic Association. Louisville Orthopaedic Association. Louisville, Kentucky. March 23, 2004.

284. Minimally Invasive Total Knee Arthroplasty - Two Year Followup. Paper Presentation. AAOS Annual Meeting, San Francisco, California. March 14, 2004.
285. MIS For Knee Reconstruction: Pitfalls and Complications. Instructional Course Lecture. AAOS Annual Meeting, San Francisco, California. March 12, 2004.
286. Minimally Invasive Total Knee Arthroplasty. Symposium. AAOS Annual Meeting, San Francisco, California. March 10, 2004.
287. Minimally Invasive Total Knee Arthroplasty. Science Exhibit. AAOS Annual Meeting, San Francisco, California. March 10-14, 2004.
288. Restoring Pronation / Supination Using Principles of Static Progressive Stretch / Stress Relaxation. Poster Exhibit. AAOS Annual Meeting, San Francisco, California. March 10-14, 2004.
289. Five Year Results of a Second Generation Hydroxyapatite Coated Acetabular Implant. Poster Exhibit. AAOS Annual Meeting, San Francisco, California. March 10-14, 2004.
290. Surgical Approach: LIS. State of the Art in Orthopedics, Snowbird, Utah. February 12, 2004.
291. MIS TKA: Avoiding Pitfalls & Complications. State of the Art in Orthopedics. Snowbird, Utah. February 11, 2004.
292. Management of the Postoperative Stiff Shoulder. AAOS: Open & Arthroscopic Techniques in Shoulder Surgery Course. Rosemont, IL. February 8, 2004.
293. The MIS Knee. Contemporary & Future Concepts of Total Hip and Knee Arthroplasty. Whistler, B.C. Canada. January 31, 2004.
294. I Prefer Uni. Contemporary & Future Concepts of Total Hip and Knee Arthroplasty. Whistler, B.C. Canada. January 30, 2004.
295. Crosslinked Polyethylene Is A Major Advance. Contemporary & Future Concepts of Total Hip and Knee Arthroplasty. Whistler, B.C. Canada. January 29, 2004.
296. The Minimal Invasive / Small Incision Total Knee Replacement. Live Surgery Symposium Hip and Knee Reconstruction at Beth Israel Medical Center. New York, New York. December 5, 2003.
297. Do We Need HA Coating in Revision Surgery. Live Surgery Symposium Hip and Knee Reconstruction at Beth Israel Medical Center. New York, New York. December 5, 2003.
298. Management of the Revision Hip: How Are We Doing? Live Surgery Symposium Hip and Knee Reconstruction at Beth Israel Medical Center. New York, New York. December 5, 2003.
299. Minimally Invasive Total Knee Arthroplasty. XXXIII Annual Meeting of the Portuguese Society of Orthopedics and Traumatology. Vilamoura, Portugal. November 28, 2003.
300. Mini Total Knee. 2<sup>nd</sup> Annual Impact Emerging Techniques. Hip and Knee Arthritis and Reconstruction. Phoenix, Arizona. November 16, 2003.
301. Minimally Invasive Total Joint Surgery. 2<sup>nd</sup> Annual Impact Emerging Techniques. Hip and Knee Arthritis and Reconstruction. Phoenix, Arizona. November 15, 2003.
302. The Need for Peer Review. 2<sup>nd</sup> Annual Impact Emerging Techniques. Hip and Knee Arthritis and Reconstruction. Phoenix, Arizona. November 15, 2003.
303. Minimally Invasive TKA - Discussion and Video. Advanced Technologies in Total Knee Surgery. Boston, Massachusetts. October 24, 2003.
304. CAOS for MIS TKA. Fall Symposium on Less and Minimally Invasive Surgery (L/MIS) for Joint Arthroplasty. Pittsburgh, Pennsylvania. October 17, 2003.

305. MIS TKA - Pitfalls and Complications: Learn From Your Mistakes. Fall Symposium on Less and Minimally Invasive Surgery (L/MIS) for Joint Arthroplasty. Pittsburgh, Pennsylvania. October 17, 2003.
306. What's The Deal with MIS TKA & THA. Fall Symposium on Less and Minimally Invasive Surgery (L/MIS) for Joint Arthroplasty. Pittsburgh, Pennsylvania. October 17, 2003.
307. How to Transition to MIS TKA. Fall Symposium on Less and Minimally Invasive Surgery (L/MIS) for Joint Arthroplasty. Pittsburgh, Pennsylvania. October 17, 2003.
308. MINI / MIS TKA (Video). Fall Symposium on Less and Minimally Invasive Surgery (L/MIS) for Joint Arthroplasty. Pittsburgh, Pennsylvania. October 17, 2003.
309. MIN TKA. Grand Rounds - University of Alberta Hospital. Edmonton, Alberta, Canada. September 26, 2003
310. The Lateral Knee Approach. Business Advisory Council Meeting. Indianapolis, Indiana. September 19, 2003.
311. Total Hip Arthroplasty Utilizing Cementless HA Coated Hip Arthroplasty, 2-10 Year Followup. SICOT / SIROT, Second International Conference. Cairo, Egypt, September 13, 2003.
312. 5 Year Result with Second Generation Hydroxy Coated Acetabulum Implant in THA. SICOT / SIROT, Second International Conference. Cairo, Egypt, September 13, 2003.
313. Suture Seat, A Biodegradable Fastener Eliminating Knot Tying in Arthroscopic Rotator Cuff Repair. SICOT / SIROT, Second International Conference. Cairo, Egypt, September 13, 2003.
314. Restoring Pronation / Supination Using Principles of Static Progressive Stretch / Stress Relaxation. Poster Exhibit. SICOT / SIROT, Second International Conference. Cairo, Egypt, September 12, 2003.
315. Restoring Wrist Flexion / Extension Using Principles of Stress Relaxation / Static Progressive Stretch. Poster Exhibit. SICOT / SIROT, Second International Conference. Cairo, Egypt, September 12, 2003.
316. Using An SPS (Static Progressive Stretch) / SR (Stress Relaxation) Orthosis for Treatment of Adhesive Capsulitis of the Shoulder. Poster Exhibit. SICOT / SIROT, Second International Conference. Cairo, Egypt, September 12, 2003.
317. Results with an Epicondylar Based Total Knee Arthroplasty With Epicondylar Based Rotational Alignment. SICOT / SIROT, Second International Conference. Cairo, Egypt, September 12, 2003.
318. Minimally Invasive Total Knee Arthroplasty. SICOT / SIROT, Second International Conference. Cairo, Egypt, September 12, 2003.
319. Patient Demands and Expectations: Are They Changing. Ortho Pacific Meeting. Auckland, New Zealand. September 2, 2003.
320. Less Invasive TKA - What Are The Options. Ortho Pacific Meeting. Auckland, New Zealand. September 2, 2003.
321. Thermal Capsulorrhaphy: Indications and Techniques. Ortho Pacific Meeting. Auckland, New Zealand. September 1, 2003.
322. Overview of TER: The Theory Behind the Design. New Frontiers in Shoulder and Elbow Surgery. Napa, California. August 2, 2003.
323. TissueMend: A New Biologic Scaffold. New Frontiers in Shoulder and Elbow Surgery. Napa, California. August 2, 2003.



324. Arthroscopic Acromioplasty: Indications & Techniques. New Frontiers in Shoulder and Elbow Surgery. Napa, California. August 1, 2003
325. Total Knee Arthroplasty. Symposium on Less and Minimally Invasive Surgery (L/MIS) for Joint Arthroplasty. Pittsburgh, Pennsylvania. June 1, 2003.
326. What's the Deal with MIN-TKA? Symposium on Less and Minimally Invasive Surgery (L/MIS) for Joint Arthroplasty. Pittsburgh, Pennsylvania. May 31, 2003.
327. MIS-TKA. Symposium on Less and Minimally Invasive Surgery (L/MIS) for Joint Arthroplasty. Pittsburgh, Pennsylvania. May 31, 2003.
328. Limited Incision Total Knee Arthroplasty. Grand Rounds – University of British Columbia. Vancouver, British Columbia. May 21, 2003.
329. Minimally Invasive Total Knee Arthroplasty. University of Arkansas. Little Rock, Arkansas. May 13, 2003.
330. Limited Incision Total Knee Arthroplasty. Indiana Orthopaedic Society Annual Meeting. French Lic, Indiana. May 10, 2003.
331. Evaluation of a Suture Seat: A Biodegradable Suture Fastener to Eliminate Knot Tying with Arthroscopic Rotator Cuff Repair. Electronic Poster. Arthroscopy Association of North America. Phoenix, Arizona, April 23-26, 2003.
332. Limited Incision Total Knee Arthroplasty. Grand Rounds – Beth Israel Medical Center. New York, New York. April 17, 2003.
333. Long Term Results of Total Elbow Arthroplasty. State of the Art in Orthopaedics 2003. Snowbird, Utah. March 14, 2003.
334. Arthroscopy in DJD: Does it Have a Role? State of the Art in Orthopaedics 2003. Snowbird, Utah. March 13, 2003.
335. Limited Incision (LIS). State of the Art in Orthopaedics 2003. Snowbird, Utah. March 12, 2003.
336. Alternative Exposures in Primary TKR - The MIS Approach. The State of the Art in Orthopaedics 2003. Whistler, B.C. Canada. February 21, 2003.
337. The Case for Cementless Sockets. The State of the Art in Orthopaedics 2003. Whistler, B.C. Canada. February 20, 2003.
338. Restoring Wrist Flexion / Extension Using Principles of Stress Relaxation / Static Progressive Stretch. Paper Presentation – AAOS Annual Meeting. New Orleans, Louisiana, February 6, 2003.
339. Different Surgical Options for Monocompartmental Osteoarthritis of the Knee – High Tibial Osteotomy vs Unicompartmental Knee Arthroplasty: Indications, Techniques, Results and Co. Symposium – AAOS Annual Meeting. New Orleans, Louisiana, February 5, 2003.
340. Evaluation of a Suture Seat, A Biodegradable Suture Fastener, To Eliminate Knot Tying With Arthroscopic Rotator Cuff Repair. Science Exhibit. AAOS Annual Meeting. New Orleans, Louisiana, February 5 - 8, 2003.
341. Unicompartmental Knees: Patient Selection, Expectations & Rehabilitation. Knee Arthroplasty Contemporary Challenges & The Future. New York, New York, December 6, 2002.
342. Minimally Invasive Total Knee Arthroplasty. Knee Arthroplasty Contemporary Challenges & The Future. New York, New York, December 6, 2002.
343. Minimally Invasive Total Knee Arthroplasty. AAOS Less Invasive Total Knee Procedure Workshop. Rosemont, Illinois, November 18, 2002.

344. Minimally Invasive Total Knee Arthroplasty. Grand Rounds - Department of Orthopedic Surgery, Northwestern University. Chicago, Illinois, November 1, 2002.
345. Glenohumeral Instability Thermal Capsulorrhaphy Current Thoughts. Current Concepts in Shoulder Reconstructions Surgery. Rye, New York, October 24, 2002
346. Indications and Techniques for Subacromial Decompression and AC Resection. Current Concepts in Shoulder Reconstructions Surgery. Rye, New York, October 24, 2002.
347. Total Shoulder Arthroplasty. Shoulder Reconstruction Program. Guadalajara, Mexico, October 22, 2002.
348. Arthroscopy in DJD: Does it Have a Role? Surgical Decision Making & Technological Advancements in Hip and Knee Reconstruction. Scottsdale, Arizona, October 19, 2002.
349. Autogenous Cartilage Replacement. Surgical Decision Making & Technological Advancements in Hip and Knee Reconstruction. Scottsdale, Arizona, October 18, 2002.
350. Minimally Invasive Total Knee Arthroplasty. Surgical Decision Making & Technological Advancements in Hip and Knee Reconstruction. Scottsdale, Arizona, October 18, 2002.
351. The Use of HA in Revisions. Surgical Decision Making & Technological Advancements in Hip and Knee Reconstruction. Scottsdale, Arizona, October 17, 2002.
352. Minimally Invasive Total Knee Arthroplasty. Team Howmedica Osteonics Meeting. Kohler, Wisconsin. September 7, 2002.
353. HA Hips in the Elderly Population. Team Howmedica Osteonics Meeting. Kohler, Wisconsin. September 6, 2002.
354. Three to Five Year Results With a Textured Titanium HA Coated Acetabular Component. Poster Exhibit, SICOT / SIROT Annual Meeting. San Diego, California, August 26-30, 2002.
355. Limited Incision Total Knee Replacement - New Technique in Surgical Positioning. Poster Exhibit, SICOT / SIROT Annual Meeting. San Diego, California, August 26-30, 2002.
356. Use of a Self Introducing Allograft Bone Button For Rotator Cuff Repair. Poster Exhibit, SICOT / SIROT Annual Meeting. San Diego, California, August 26-30, 2002.
357. Results with an Epicondylar Axis Based TKA and Epi Based Alignment. Poster Exhibit, SICOT / SIROT Annual Meeting. San Diego, California, August 26-30, 2002.
358. Unmet Needs in Knee Surgery. Scorpio Board Meeting. Chicago, Illinois. August 16, 2002.
359. Minimally Invasive Total Knee Arthroplasty. University of Arkansas. Little Rock, Arkansas. August 6, 2002
360. New Approaches to the Knee: "MIN - TKA". Inventor Consultant Meeting. Tarrytown, New York. July 26, 2002.
361. Thermal Capsulorrhaphy: Indications, Technique. AAOS The Shoulder: Current Practice in Open and Arthroscopic Techniques Course. Rosemont, Illinois, May 3, 2002.
362. Minimal Incision TKA with Suspended Leg Technique. Current Issues in Orthopaedic Surgery. Illinois Association of Orthopaedic Surgeons Meeting. Springfield, Illinois, April 12, 2002.
363. HA in the Elderly Population Can it Match Cement. State of the Art in Orthopedics. Vancouver, Canada, March 20, 2002.
364. Minimally Invasive TKA. State of the Art in Orthopedics. Vancouver, Canada, March 18, 2002.

365. Humeral Nonunions. State of the Art in Orthopedics. Vancouver, Canada, March 17, 2002.
366. Elbow Arthroscopy General Technique. State of the Art in Orthopedics. Vancouver, Canada, March 17, 2002.
367. Total Elbow is Rheumatoid Arthritis. State of the Art in Orthopedics. Vancouver, Canada, March 17, 2002.
368. Evaluation of a 30 Minute Protocol to Restore ROM via Stress Relaxation & Static Progressive Stretch. AAOS Annual Meeting. Dallas, Texas, February 14, 2002.
369. Use of a Self-Introducing Allograft Bone Button for Rotator Cuff Repairs. Science Exhibit, AAOS Annual Meeting. Dallas, Texas, February 13-16, 2002.
370. Thermal Capsular Shrinkage Laser Vs. Electrothermal Technique and Results. University of Arkansas. Little Rock, Arkansas. November 13, 2001.
371. Minimally Invasive TKR. Strategies to Improve Outcomes in Joint Replacement. La Quinta, California, October 20, 2001.
372. Trends in the Shoulder and Elbow Marketplace. Strategies to Improve Outcomes in Joint Replacement. La Quinta, California, October 20, 2001.
373. Humeral Nonunions. Strategies to Improve Outcomes in Joint Replacement. La Quinta, California, October 20, 2001.
374. Thermal Capsular Shrinkage. Strategies to Improve Outcomes in Joint Replacement. La Quinta, California, October 20, 2001.
375. TER: Results and Complications. Strategies to Improve Outcomes in Joint Replacement. La Quinta, California, October 20, 2001.
376. HA in the Elderly Population. Strategies to Improve Outcomes in Joint Replacement. La Quinta, California, October 18, 2001.
377. Current Concepts in Knee Arthroplasty. Current Concepts in Cartilage Repair: Joint Replacement, Spinal Surgery, Shock Wave Therapy. Ankara, Turkey, August 31, 2001.
378. Current Concepts in Knee Arthroplasty: Revision. Current Concepts in Cartilage Repair: Joint Replacement, Spinal Surgery, Shock Wave Therapy. Ankara, Turkey, August 31, 2001.
379. Current Concepts in Hip Arthroplasty. Current Concepts in Cartilage Repair: Joint Replacement, Spinal Surgery, Shock Wave Therapy. Ankara, Turkey, August 30, 2001.
380. Current Concepts in Hip Arthroplasty: Revision. Current Concepts in Cartilage Repair: Joint Replacement, Spinal Surgery, Shock Wave Therapy. Ankara, Turkey, August 30, 2001.
381. Arthroscopic Stabilization: Laser Versus Electrothermal Shrinkage Technique and Results. AAOS The Shoulder in 2001: An Open and Arthroscopic Surgical Odyssey Course. Chicago, Illinois, July 13, 2001.
382. Use of a Conical Tip Allograft Bone Button for Rotator Cuff Repairs. University of Arkansas. Little Rock, Arkansas. June 19, 2001.
383. Total Elbow Replacement Long Term Results in Rheumatoid Arthritis. University of Arkansas. Little Rock, Arkansas. June 19, 2001.
384. Hydroxyapatite in Patients Over 65. Total Hip and Knee Meeting. Techniques and Controversies. Chicago, Illinois, May 5, 2001.
385. Hydroxyapatite in Femoral Revisions. Total Hip and Knee Meeting. Techniques and Controversies.

Chicago, Illinois, May 5, 2001.

386. Determining Tibial Rotation in Total Knee Arthroplasty. Total Hip and Knee Meeting. Tools, Techniques and Controversies. Chicago, Illinois, May 4, 2001.
387. Osteotomy Versus Unicompartmental Versus Total Knee Arthroplasty. Total Hip and Knee Meeting. Techniques and Controversies. Chicago, Illinois, May 4, 2001.
388. Using Static Progressive Stretch and Stress Relaxation in the Treatment of Glenohumeral Joint Adhesive Capsulitis. International Congress Surgery of the Shoulder. Capetown, South Africa, April 24, 2001.
389. Use of a Conical Tip Allograft Bone Button For Rotator Cuff Repairs. International Congress Surgery of the Shoulder. Capetown, South Africa, April 23, 2001.
390. Use of an Allograft Bone Button for Rotator Cuff Repairs. Electronic Poster Exhibit, Arthroscopy Association of North America. Seattle, Washington, April 19-22, 2001.
391. A Contemporary Treatment for ROM Deficits and Joint Stiffness. Fact or Fiction? Campbell Clinic, Memphis, Tennessee. April 16, 2001.
392. Bearing Surfaces In Joint Replacement. Annual Glen Edwards Day. Calgary, Canada, March 30, 2001.
393. Hydroxyapatite Coated Stems. Annual Glen Edwards Day. Calgary, Canada, March 30, 2001.
394. Early Results with an Epicondylar Axis-Based Total Knee Replacement. State of the Art in Orthopedics 2001. Whistler, B.C. Canada, March 21, 2001.
395. HA in the Elderly Population: Can it Match Cement? State of the Art in Orthopedics 2001. Whistler, B.C. Canada, March 19, 2001.
396. Humeral Non-Unions. State of the Art in Orthopedics 2001. Whistler, B.C. Canada, March 17, 2001.
397. Longer Term Result of Total Elbow Replacement in Rheumatoid Arthritis. State of the Art in Orthopedics 2001. Whistler, B.C. Canada, March 17, 2001.
398. Determining Tibial Rotation. Total Hip & Knee Replacement. Miami, Florida, November 11, 2000.
399. Maquet Osteotomies. Total Hip & Knee Replacement. Miami, Florida, November 10, 2000.
400. Cartilage Transplants. Total Hip & Knee Replacement. Miami, Florida, November 10, 2000.
401. Osteotomy. Total Hip & Knee Replacement. Miami, Florida, November 10, 2000.
402. HA Hip Arthroplasty in Patients Over 65: 7.5 Year Follow Up. Total Hip & Knee Replacement. Miami, Florida, November 9, 2000.
403. Intermediate Term Results of Cementless Hydroxyapatite Coated Total Hip Arthroplasty in Patients Over the Age of 65. ISTA Meeting. Berlin, Germany, September 21, 2000.
404. Omnifit HA. Inventor Consultant Meeting. West Point, New York. July 21, 2000.
405. Cuff Arthropathy: A Treatment Dilemma. Advanced Concepts in Shoulder & Elbow Arthroplasty & Arthroscopy. Seabrook Island, South Carolina, May 20, 2000.
406. Arthroscopy of the Elbow: An Introduction. Advanced Concepts in Shoulder & Elbow Arthroplasty & Arthroscopy. Seabrook Island, South Carolina, May 20, 2000.
407. Humeral Nonunions. Advanced Concepts in Shoulder & Elbow Arthroplasty & Arthroscopy.

Seabrook Island, South Carolina, May 19, 2000.

408. Use of an Allograft Bone Button for Rotator Cuff Repairs. Poster Exhibit, Mid-America Orthopaedic Association. Scottsdale, Arizona, April 26-30, 2000.
409. Use of an Allograft Bone Button for Rotator Cuff Repairs. Arthroscopy Association of North America. Miami Beach, Florida, April 16, 2000.
410. Intermediate Term Results of Cementless Hydroxyapatite Coated Total Hip Arthroplasty in Patients Over the Age of 65. Poster Exhibit, AAOS Annual Meeting. Orlando, Florida, March 14-18, 2000.
411. Use of an Allograft Bone Button for Rotator Cuff Repair. Science Exhibit. AAOS Annual Meeting. Orlando, Florida, March 14-18, 2000.
412. Using Static Progressive Stretch and Stress Relaxation in the Treatment of Glenohumeral Joint Adhesive Capsulitis. Poster Exhibit, Orthopaedic Research Society. Orlando, Florida, March 14-18, 2000.
413. Osteotomy Vs. Uni Vs. Total?. State of Art in Orthopaedics 2000. Whistler, B.C. Canada, February 15, 2000.
414. Elbow Arthroscopy: Technique and Applications. State of Art in Orthopaedics 2000. Whistler, B.C. Canada, February 12, 2000.
415. Total Elbow Replacement: Long Term Results in Rheumatoid Arthritis. State of Art in Orthopaedics 2000. Whistler, B.C. Canada, February 12, 2000.
416. Humeral Nonunions. State of Art in Orthopaedics 2000. Whistler, B.C. Canada, February 12, 2000.
417. Total Shoulder Arthroplasty: Cementless Glenoid. State of Art in Orthopaedics 2000. Whistler, B.C. Canada, February 12, 2000.
418. Use of Static Progressive Stretch Orthosis to Restore Range of Motion. Chicago Hand Society Meeting. Chicago, Illinois, January 29, 2000.
419. Biologic Fixation of Rotator Cuff Tears: CurvTek / Multitak. Arthroscopy and Reconstructive Surgery 2000. Scottsdale, Arizona, January 13, 2000.
420. 10 Most Common Mistakes in Total Knee Replacement. Advances in Knee Replacement Seminar. Mondelieu, France, October 8, 1999.
421. Cemented Versus Cementless Fixation of Shoulder Prosthetic Components. 12<sup>th</sup> Annual International Symposium for Technology in Arthroplasty. Chicago, IL, September 25, 1999.
422. The Benefits of a Single Flexion Extension Axis in Total Knee Design. 12<sup>th</sup> Annual International Symposium for Technology in Arthroplasty. Chicago, IL, September 23, 1999.
423. Use of Suture Anchors & Bone Buttons. University of Arkansas. Little Rock, Arkansas. July 20, 1999.
424. Arthroscopic Acromioplasty: Indications and Techniques. Challenges in Upper Extremity Replacement Meeting. Miami, FL, May 15, 1999.
425. Elbow Arthroscopy: Technique and Applications. Challenges in Upper Extremity Replacement Meeting. Miami, FL, May 15, 1999.
426. Using Static Progressive Stretch and Stress Relaxation in the Treatment of Glenohumeral Joint Adhesive Capsulitis. Mid-America Orthopaedic Association Annual Meeting. Bermuda, April 15, 1999.

427. Unstable Malaligned Total Knee Replacement. State of the Art in Orthopaedics 1999 Meeting. Lake Tahoe, NV, March 12, 1999.
428. Alternatives to Total Knee Replacement – Osteotomy. State of the Art in Orthopaedics 1999 Meeting. Lake Tahoe, NV, March 11, 1999.
429. The Glenoid Made Easy: My Tricks. State of the Art in Orthopaedics 1999 Meeting. Lake Tahoe, NV, March 8, 1999.
430. Long Term Results of Total Elbow Replacement in Rheumatoid Arthritis. State of the Art in Orthopaedics 1999 Meeting. Lake Tahoe, NV, March 8, 1999.
431. Using Static Progressive Stretch and Stress Relaxation in the Treatment of Glenohumeral Joint Adhesive Capsulitis. Steadman Hawkins Annual Fellowship Meeting. Vail, Colorado. December 11, 1998.
432. Total Knee Arthroplasty. Pusan Korea University. Pusan Korea. December 4, 1998.
433. Total Knee Arthroplasty – Surgical Technique. Visiting Professor, Ji Shui Tan Hospital. Beijing China. December 3, 1998.
434. Total Knee Replacement Using An Epicondylar Based Implant. Visiting Professor, People's University Hospital. Beijing China. December 2, 1998.
435. Total Elbow Arthroplasty Current Indications and Techniques. Visiting Professor, People's University Hospital. Beijing China. December 2, 1998.
436. Shoulder Stabilization Using Laser Assisted Capsular Shift. University of Arkansas. Little Rock, Arkansas. June 30, 1998.
437. Rotator Cuff: Instability / Impingement. Orthopaedic Assessments and the Primary Care Physicians. Searle Pharmaceuticals. Effingham, Illinois. May 27, 1998.
438. Osteonecrosis after Laser Assisted Knee Arthroscopy. National Association of Operating Room Nurses. San Francisco, California, May 20, 1998.
439. Shoulder Stabilization Using Laser Assisted Capsular Shift. National Association of Operating Room Nurses. San Francisco, California, May 19, 1998.
440. Evaluation of Intraosseous Patellar Blood Supply after Medial Parapatellar Arthrotomy. Arthroscopy Association of North America Annual Meeting. Orlando, Florida, May 3, 1998.
441. Total Elbow Replacement: Indications and Technique. Challenges & Management Strategies in Hip & Knee Reconstruction. Hilton Head, South Carolina, April 30, 1998.
442. Osteonecrosis & Chondrolysis After Arthroscopic Laser Chondroplasty of the Knee. Mid-America Orthopaedic Association Annual Meeting. Acapulco, Mexico, April 24, 1998.
443. Patellar Blood Flow: Evaluation of the Intraosseous Blood Supply after Medial Parapatellar Arthrotomy. Mid-America Orthopaedic Association Annual Meeting. Acapulco, Mexico, April 23, 1998.
444. Effects of Machining on the Structure of Ultra Molecular Weight Polyethylene (UHMWPE) for Total Joint Replacements. Paper Presentation. AAOS Annual Meeting. New Orleans, March 19, 1998.
445. Joint Contracture Rehabilitation: Static Progressive Stretch. Poster Presentation. AAOS Annual Meeting. New Orleans, March 18-21, 1998.
446. Indications and Techniques of ASD. State of the Art in Orthopaedics 1998. Squaw Valley, California, February 19, 1998.

447. Elbow Arthroscopy: Technique and Applications. State of the Art in Orthopaedics 1998. Squaw Valley, California, February 19, 1998.
448. Management of the Unstable and Malaligned TKA. State of the Art in Orthopaedics 1998. Squaw Valley, California, February 17, 1998.
449. Practicing Outside the Managed Care Environment. State of the Art in Orthopaedics 1998. Squaw Valley, California, February 15, 1998.
450. Indications & Technique of Arthroscopic Acromioplasty. Current Perspectives & Techniques in Knee, Hip & Upper Extremity Replacement. Ponte Vedra Beach, Florida, September 20, 1997.
451. Surgical Interruption of the Patellar Blood Supply During Patellar Component Fixation in TKA. Current Perspectives & Techniques in Knee, Hip & Upper Extremity Replacement. Ponte Vedra Beach, Florida, September 18, 1997.
452. Total Elbow Arthroplasty. University of Arkansas. Little Rock, Arkansas. September 16, 1997.
453. Complications of Laser and Knee Arthroscopy. University of Arkansas. Little Rock, Arkansas. June 17, 1997.
454. Osteonecrosis & Chondrolysis After Arthroscopic Laser Chondroplasty of the Knee. The International Society of Arthroscopy, Knee Surgery, and Sports Medicine. Buenos Aires, Argentina, May 14, 1997.
455. Osteonecrosis & Chondrolysis After Arthroscopic Laser Chondroplasty of the Knee. Arthroscopy Association of North America. San Diego, California, April 25, 1997.
456. Polymers in Medical Applications. Graduate Forum on Polymers and Composites. Eastern Illinois University, Charleston, Illinois. March 28, 1997.
457. The Role of Uni Knees for AVN of the Knee. State of the Art in Hip and Knee Replacement 1997. Banff, Canada, March 19, 1997.
458. Indications and Techniques of Total Elbow Arthroplasty. State of the Art in Hip and Knee Replacement 1997. Banff, Canada, March 16, 1997.
459. CINE MRI: A Non-Invasive Technique for the Evaluation for the Evaluation of Shoulder Instability. Paper Presentation. AAOS Annual Meeting. San Francisco, California, February 14, 1997.
460. Osteonecrosis and Chondrolysis after Arthroscopic Laser Chondroplasty of the Knee. Paper Presentation. AAOS Annual Meeting. San Francisco, California, February 13, 1997.
461. Patellar Blood Flow - Evaluation of Interosseous Blood Supply. Science Exhibit. AAOS Annual Meeting. San Francisco, California, February 12-15, 1997.
462. Joint replacements, Overview and New Technology. Lake Tahoe, Nevada. December 21, 1996.
463. Elbow Maladies. University of Arkansas. Little Rock, Arkansas. October 8, 1996.
464. Patella Blood Supply Implications for Total Knee Arthroplasty. Orthopaedic Surgery and Trauma Society. Casirez, St. Lucia, June 20, 1996.
465. Compression Bone Grafting Techniques. Orthopaedic Surgery and Trauma Society. Casirez, St. Lucia, June 17, 1996.
466. Treatment Options for Acute Traumatic Shoulder Dislocations. University of Arkansas. Little Rock, Arkansas. June 11, 1996.
467. Comparisons & Evaluations of Current Joint Contracture Rehabilitation Approaches. Mid-America Orthopaedic Association. San Antonio, Texas, April 27, 1996.

468. Utilization of the Scale Effect to Maximize Implant Fixation Via PMMA. Mid-America Orthopaedic Association. San Antonio, Texas, April 27, 1996.
469. Open Bankart Repair for Traumatic Anterior Instability, Technique, Results, Complications. AAOS - Strategic Approaches to Shoulder Instability Fractures & Reconstruction Course. Rosemont, Illinois, April 19, 1996.
470. Cine MRI: A Non-Invasive Technique for Evaluation of Shoulder Instability. Arthroscopy Association of North America. Washington, DC, April 14, 1996.
471. Unicompartmental Knee Replacement. State of the Art in Hip & Knee Replacement Seminar. Banff, Canada, March 21, 1996.
472. How Orthopaedic Surgeon Practices will be Modified by Managed Care. State of the Art in Hip & Knee Replacement Seminar. Banff, Canada, March 20, 1996.
473. Formation of Structural Grafts from Cancellous Bone Fragments. Paper Presentation. AAOS Annual Meeting. Atlanta, Georgia, February 24, 1996.
474. Surgical Interruption of the Patellar Blood Supply During Patellar Component Fixation in Total Knee Arthroplasty. Science Exhibit. AAOS Annual Meeting. Atlanta, Georgia, February 22-25, 1996.
475. Laser Assisted Capsular Shift Stabilization for Anterior Inferior Shoulder Instability. Australian Orthopaedic Association Conference, Sydney, Australia, November 10, 1995.
476. Arthroscopic Management of Shoulder Problems. Sydney, Australia. November 7, 1995.
477. Treatment Options for Uni-Compartmental Knee Disease. Joint Replacement Symposium, Palm Beach, Florida, November 3, 1995.
478. Scale Effect - Utilization of Design Geometry for PMMA Fixated Knee Arthroplasty. Joint Replacement Symposium, Palm Beach, Florida, November 3, 1995.
479. Treatment Options for Unicompartmental Arthritis. University of Arkansas. Little Rock, Arkansas. October 17, 1995.
480. Alternatives to Total Knee Arthroplasty. Total Hip & Knee Arthroplasty Seminar, Pinehurst, North Carolina, September 30, 1995.
481. How Orthopaedic Surgeon Practices Will Be Modified By Managed Care. Total Hip & Knee Arthroplasty Seminar. Pinehurst, North Carolina, September 29, 1995.
482. Diagnosis of Shoulder Instability Via CINE MRI. 6th International Congress on Surgery of the Shoulder, Helsinki, Finland, July 29, 1995.
483. Traumatic Anterior Dislocation of the Shoulder. University of Arkansas. Little Rock, Arkansas. June 6, 1995.
484. Progressive Techniques. Joint Active Systems Seminar, Baltimore, Maryland. May 12, 1995.
485. Management of Joint Contracture: Theory Vs Science. American Academy of Orthotists & Prosthetists, St. Louis, Missouri, May 12, 1995.
486. Scale Effect of Polymethyl Methacrylate. Science Exhibit. AAOS Annual Meeting. Orlando, Florida, February 15-19, 1995.
487. Surgical Treatment of Unicompartmental Knee Arthritis. Current Issues and Techniques in Total Joint Replacement. Hilton Head, South Carolina, October 20, 1994.
488. Shoulder Dislocations and Subluxations. University of Arkansas. Little Rock, Arkansas. October 18, 1994.



489. Shoulder Review Course - Orthopaedics. Chicago, Illinois. July 26, 1994.
490. Kinematic MRI of the Shoulder. Ussepa Island, Florida. June 8, 1994.
491. Limited Incision Unicompartmental Arthroplasty. Ussepa Island, Florida. June 7, 1994.
492. DRG Reimbursement for Arthroplasty. Ussepa Island, Florida. June 6, 1994.
493. Opportunity for Intuitiveness in Orthopaedic Surgery. University of Arkansas. Little Rock, Arkansas. May 31, 1994.
494. CINE MRI of the Shoulder for Shoulder Instability and Labral Pathology. Hilton Head, South Carolina, May 14, 1994.
495. Diagnosis of Shoulder Instability Via CINE MRI. Mid America Orthopaedic Association, South Hampton, Bermuda, April 29, 1994.
496. Evaluation of The Glenoid Labrum with CINE MRI. Science Exhibit. AAOS Annual Meeting. New Orleans, Louisiana, February 23-27, 1994.
497. Diagnosis of Shoulder Instability Via CINE MRI. Science Exhibit. AAOS Annual Meeting. New Orleans, Louisiana, February 23-27, 1994.
498. Future of Unicompartmental Knee Replacement. Keynote Speaker: Japanese Arthritis Research Association, Osaka, Japan, January 27, 1994.
499. Clinical Results with Primary Unicompartmental Knee Arthroplasty. Visiting Professor – Kobe University. Osaka Japan. January 27, 1994.
500. Shoulder Arthroplasty. University of Arkansas. Little Rock, Arkansas. October 12, 1993.
501. Posterior Cruciate: Salvage or Sacrifice. Hip & Knee Symposium. Hilton Head, South Carolina, October 8, 1993.
502. Future Trends In Uni Compartmental Knees. Hip & Knee Symposium. Hilton Head, South Carolina, October 8, 1993.
503. Arthritis of Shoulder and Elbow. Springfield, Illinois. September 7, 1993.
504. Joint Fibrosis, Diagnosis and Treatment. University of Arkansas. Little Rock, Arkansas. June 29, 1993.
505. Arthroscopic Surgery. St. Anthony Memorial Hospital, Effingham, Illinois. June 10, 1993.
506. Evaluation of Glenoid Labrum Morphology Using CINE MRI. Mid America Orthopaedic Association. Hilton Head, SC. May 1, 1993.
507. Arthroscopic Assessment of Glenoid Component Loosening Following Total Shoulder Arthroplasty. Paper Presentation. AAOS Annual Meeting. San Francisco, CA, February 22, 1993.
508. Evaluation of Glenoid Labrum Morphology Using "CINE" Magnetic Resonance Imaging. Paper Presentation. AAOS Annual Meeting. San Francisco, CA. February 20, 1993.
509. Full Thickness Rotator Cuff Tears in Patients Less Than 40: Etiology and Results of Surgical Treatment. Paper Presentation. AAOS Annual Meeting. San Francisco, CA. February 20, 1993.
510. Future of Knee Arthroplasty. Hip & Knee Symposium. Hilton Head, South Carolina, Oct. 29, 1992.
511. Rotator Cuff Disorders. University of Arkansas. Little Rock, Arkansas. October 27, 1992.
512. Evaluation of the Knee. Champaign, Illinois. September 15, 1992.

513. Surgical Management of Arthritis. Arthritis Support Group, Effingham, Illinois. September 8, 1992.
514. Shoulder Instability and CINE Magnetic Resonance Imaging. University of Arkansas. Little Rock, Arkansas. July 28, 1992.
515. Evaluation of the Knee. Union Hospital, Terre Haute, Indiana. June 11, 1992.
516. Evaluation and Clinical Correlation. CINE M.R.I. of the Shoulder. American Shoulder and Elbow Society. Specialty Day. Washington D.C. February 22, 1992.
517. Correlation of CINE M.R.I. and Arthroscopy of the Shoulder. Paper Presentation. AAOS Annual Meeting. Washington D.C. February 20, 1992.
518. Orthopaedic Problems in the Geriatric Patient. Illinois Academy of Family Physicians, Carbondale, Illinois, February 19, 1992.
519. Comparison of Cementless Total Knee Replacements. Allendale, New Jersey. December 13, 1991.
520. CINE MRI of the Shoulder. Radiology Society of North America. Chicago, Illinois, December 4, 1991.
521. Elbow Arthritis. University of Arkansas. Little Rock, Arkansas. October 22, 1991.
522. Current Concepts in Knee Arthroplasty. Allendale, New Jersey. October 12, 1991.
523. Common Problems with Diagnosis and Treatment of Back and Shoulder Pain. Danville, Illinois. September 28, 1991.
524. Total Shoulder Arthroplasty. Revision Shoulder Arthroplasty. Springfield, Illinois. May 18, 1991.
525. Arthroscopic Assessment of Glenoid Component Loosening Following Total Shoulder Arthroplasty. Arthroscopy Association of North America. San Diego, California, April 26, 1991.
526. Arthroscopy of Shoulder Arthroplasty: Arthroscopic Assessment of Component Loosening. Arthroscopy Association of North America, San Diego, CA. April 26, 1991.
527. Shoulder Pain in the Throwing Athlete. Great Lakes Athletic Trainers Association, Chicago, Illinois, March 14, 1991.
528. Component Loosening and Revision Following Total Shoulder Arthroplasty. Paper Presentation. AAOS Annual Meeting. Anaheim, CA. March 7, 1991.
529. The Shoulder Diagnosis and Treatment. Illinois Academy of Family Physicians. Belleville, Illinois, February 28, 1991.
530. Rotator Cuff Disorders, Shoulder Instability. University of Arkansas. Little Rock, Arkansas. September 18, 1990.
531. Rotator Cuff Disorders & Fractures Proximal Humerus. University of Kentucky - Visiting Professor. Lexington, Kentucky, June 1990.
532. Revision Hemiarthroplasty Shoulder. AAOS Annual Meeting. New Orleans, February 1990.
533. Component Revision Following Total Shoulder Arthroplasty. American Shoulder and Elbow Society. Specialty Day. New Orleans, LA. February 1990.
534. Comparison of Suture, Fibrin Adhesive Cyanoacrylates for Soft Tissue Repair. Mid America Orthopaedics Association. Bermuda, April 1989.
535. Evaluation of Techniques for Human Dural Leaks: In Vitro Study in Human Dura. Mid America Orthopaedics Association. Bermuda, April 1989.

536. Comparison of Various Techniques for Dural Repair of Dural Leaks, An In Vitro Study in the Human Dura. AAOS Annual Meeting. Las Vegas, NV. February 1989.
537. Comparison of Fibrin Adhesives and Cyanoacrylates for Soft Tissue and Hard Tissue Repair. Society for Biomaterials. New York, NY. 1989.
538. MRI for the Diagnosis of Tuberculous Spondylitis. AAOS Annual Meeting. Atlanta, Georgia. February 1988.
539. Techniques: Surgical Techniques for Acromioplasty, Rotator Cuff Repair and Total Shoulder Arthroplasty. AAOS Meeting. Summer Institute, AAOS Meeting, San Diego, CA. 1988.
540. MRI for the Diagnosis of Tuberculous Spondylitis. International Society for the Study of the Lumbar Spine, Rome, Italy. 1987.
541. Musculoskeletal Neoplasms in the Sports Medicine Patient. A.O.A. Residents Conference. Salt Lake City, Utah. 1987.
542. Cyanoacrylate as a Soft Tissue Adhesive
- International Biomaterials Society. Kyoto, Japan, April 1988.
  - American Academy of Orthopaedic Surgeons. Atlanta, Georgia, February 1988.
  - Biointeractions. London England, July 1987.
  - Society for Biomaterials. New York, June 1987.
  - Western Australia Orthopaedics. Perth, Australia, 1987.
  - Mid America Orthopaedics. San Diego, California, March 1987.
  - American Academy of Orthopaedic Surgeons. San Francisco, CA, 1987.
  - A.O.A. Residents Conference. Los Angeles, 1986.
  - American Orthopaedic Society for Sports Medicine. Sun Valley, Idaho, 1986.
  - Cleveland Clinic, Orthopaedics, 1986.

#### Sports Medicine - Lecture Series

- Illinois Teacher Association, Mt. Vernon, Illinois. October 1993.  
 Teachers Conference, Vandalia, Illinois. October 1992.  
 Illinois Teachers Association, Mt. Vernon, Illinois. October 1992.  
 St. Anthony's Memorial Hospital, Effingham, Illinois. September 1992.

#### Painful Shoulder - Lecture Series

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|--|---------------------------------------|
| Effingham, Illinois, April 1997.       | Covington, Indiana, May 1992.         |
| Decatur, Illinois, December 1996.      | Evansville, Indiana, October 1991.    |
| Decatur, Illinois, October 1995.       | Bloomington, Indiana, August 1991.    |
| Pana, Illinois, September 1995.        | French Lic, Indiana, August 1991.     |
| Jacksonville, Illinois, November 1994. | Bloomington, Illinois, June 1991.     |
| Collinsville, Illinois, May 1994.      | Springfield, Illinois, April 1991.    |
| St. Joseph, Missouri, September 1993.  | Terre Haute, Indiana, April 1991.     |
| St. Joseph, Missouri, September 1993.  | Champaign, Illinois, April 1991.      |
| Haubstaudt, Indiana, August 1993.      | Libertyville, Illinois, April 1991.   |
| Evansville, Indiana, August 1993.      | Lake Forest, Illinois, April 1991.    |
| Pana, Illinois, August 1993.           | Peoria, Illinois, February 1991.      |
| Dalton City, Illinois, August 1993.    | Rock Island, Illinois, February 1991. |
| West Frankfort, Illinois, June 1993.   | Kankakee, Illinois, February 1991.    |
| West Frankfort, Illinois, June 1993.   | French Lic, Indiana, January 1991.    |
| Popular Bluff, Missouri, May 1993.     | St. Louis, Missouri, November 1990.   |
| Sikeston, Missouri, April 1993.        | Peoria, Illinois, November 1990.      |
| Cedar Rapids, Iowa, February 1993.     | Decatur, Illinois, October 1990.      |
| Carbondale, Illinois, September 1992.  | Champaign, Illinois, October 1990     |
| Kankakee, Illinois, June 1992.         |                                       |

## **HONORS AND AWARDS:**

- Illinois Rural Health Association "Rural Physician of Excellence Award". September 2009.
- Featured in 2003 Stryker Annual Report for MIS TKA.
- Assisting Effingham to Become 5 Out Of Top 100 US Small Towns
- Prolific Independent Inventor - United States Patent and Trademark Office, March 2003
- Distinguished Service Award - Lake Land College, May 2000.
- Award of Excellence - Eastern Illinois University. April 2000.
- Glen Hesler Award - Eastern Illinois University. 1999.
- 1999 Philanthropy Award - Eastern Illinois University Foundation.
- Effingham Chamber of Commerce Excel Award. Effingham, Illinois, 1993.
- Effingham County Community Appreciation Award. Effingham, Illinois, 1990.
- A.O.A Bristol Meyer-Zimmer Award. A Comparison of Suture Versus Cyanoacrylates for Soft Tissue Repair - A Biomechanical and Histological Evaluation. Hot Springs, Virginia, 1988.
- George and Grace Crile Traveling Fellowship for Exceptional Surgical Ability, Cleveland Clinic, June 1988.
- International Traveling Fellowship for Outstanding Performance in Clinical Practice, Educational Programs and Research. Cleveland Clinic, 1988.
- Young Investigators Award. Society for Biomaterials. Cyanoacrylates as Soft Tissue Adhesives. New York, New York 1987.

## **LIVE SURGERY BROADCAST:**

1. Minimally Invasive Total Knee Arthroplasty – Subvastus Approach. Kobe University Hospital. June 6, 2006
2. St. Anthony's Memorial Hospital, Effingham IL. Triathlon MIS Knee Live Surgery Webcast. May 23, 2006.
3. Houston, Texas. MIS TKA. Minimally Invasive Joint Replacement: State of the Art. September 18, 2004
4. New York, New York. MIS TKA
  - CNN Interview. MIS TKA, Beth Israel Hospital with Dr. Steven Harwin, March 23, 2004.
5. Webcast Sponsored by University Of Medicine & Dentistry Of New Jersey. Minimally Invasive Primary Total Knee Replacement Surgery-Using A Single Radius Knee Design. Moderator Anthony K. Hedley, MD, FRCS.
  - Webcast from St. Anthony's Memorial Hospital, November 24, 2003.
6. Tucson, Arizona. Surgical Decision Making & Technological Advancement.
  - Live Surgery Broadcast from St. Anthony's Memorial Hospital, October 18, 2003
7. Auckland, New Zealand. Ortho Pacific Meeting. Ascot Hospital, Greelane
  - MIS TKA Surgery, August 29, 2003
8. Aventura, Florida. Health Stream/Education Design - New Frontiers in Shoulder Surgery.
  - Total Shoulder Arthroplasty Live Surgery Broadcast, May 30, 2002
9. Beijing, China, at Beijing Medical University Affiliated People's Hospital
  - Total Elbow Replacement Surgery, December 2, 1998 - Broadcast
  - Total Knee Arthroplasty Surgery, December 4, 1998

## **MEDIA PRESENTATIONS:**

- MIS TKA - MedCenter Live - WCIA TV 3 - June 25, 2008.
- Limited Approach Total Knee Arthroplasty: A Comparison Study. AAOS Media Day, February 2005
- MIS Web Publication. Trends-in-Medicine. April 2004
- Debating The Benefits Of Minimally Invasive Surgery On Hips And Knees. AAOS Media Day. March 2004
- MIS TKA - CNN Medical Report - 2004
- MIS TKA - 59 Major US Markets - 2004
- Ceramic on Ceramic THA - Champaign, IL
- Bonutti Research - Terre Haute, IN

## **NEWSPAPER / MAGAZINE ARTICLES:**

- Three Years Later, She Has Knees Made for Dancing. *Herald Tribune, Sarasota, FL.* June 10, 2008.rere
- Three Years Later, Knees Are Made for Dancing. *The St. Louis Post-Dispatch.* June 9, 2008.
- Three Years Later, Knees Made for Dancing. *The New York Times.* June 3, 2008.

- The First Step May Be the Hardest. *AARP Bulletin*. March 2006.
- Surgeon As Entrepreneur. *Orthopaedic Product News*. January/February 2006.
- The Medical Breakthroughs That Matter to You. *Health Magazine*. February 2005.
- Trading In Old Knees, Then Getting to Work. *The New York Times*. June 21, 2004.
- Less Invasive Knee Surgery. *Effingham Daily News*. January 9, 2004.
- A Man of Firsts. *Decatur Herald*. March 26, 2003.
- Total Joint Replacement Surgery in the 21<sup>st</sup> Century. *Effingham Daily News*. March 29, 2002.

## **INTERNET PUBLICATIONS**

### **ORTHOPEDIC KNOWLEDGE ONLINE:**

- Minimally Invasive Total Knee Arthroplasty CME. OKO 2008;6(9), September 25, 2008.  
[http://www5.aaos.org/oko/cme/templates/template\\_2/information.cfm?topic=CME073](http://www5.aaos.org/oko/cme/templates/template_2/information.cfm?topic=CME073).

### **ORTHOPEDIC HYPERGUIDES:**

- Exposure in Revision TKA, February 2007
- Femoral and Tibial Alignment with MIS in TKR, November 2006
- Hip Kinematics with Navigation, November 2006
- MIS TKA: How I Do It, February 2006
- Hydroxyapatite Coating in Revision Surgery, May 2004
- Arthroscopy in Degenerative Joint Disease: Does it Have a Role?, July 2003
- Autogenous Cartilage Replacement, July 2003
- Humeral Nonunions, September 2002
- Hydroxyapatite in the Elderly Population, September 2002
- Minimally Invasive Total Knee Arthroplasty, September 2002
- Determining Tibial Rotation, July 2001
- Cartilage Transplantation, July 2001

### **MEDSCAPE**

- Improving Patient Satisfaction Through Technique: Minimally Invasive TKA, April 2006
- Clinical Counterpoints: New Techniques in Total Knee Arthroplasty and Pain Management, April 2005

### **MUSICIAN:** Founder & Songwriter "The Clinic"

- CD - *the Clinic* - 2000
- CD - *Every Dog Has Its Day* - 1998
  - Song - *Morning Rain* - National Airplay 220 Stations