

CURRICULUM VITAE
The Johns Hopkins University School of Medicine

Lew Charles Schon, M.D.

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DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointments

University

2003-2014	Assistant Professor of Orthopaedic Surgery, Part-time, Johns Hopkins University School of Medicine, Baltimore, MD
2005-Present	Clinical Associate Professor of Orthopaedic Surgery, Georgetown University School of Medicine, Washington, DC
2009-2014	Assistant Professor of Biomedical Engineering, Part-time, Johns Hopkins University School of Medicine, Baltimore, MD
2014-Present	Associate Professor of Orthopaedic Surgery and Biomedical Engineering, Part-time, Johns Hopkins University School of Medicine, Baltimore, MD
2015-Present	Fischell Literati Faculty, University of Maryland Fischell Department of Bioengineering

Hospital

1990-Present	Attending Orthopaedic Surgeon, Subspecialty in Foot and Ankle, Orthopaedic Residency Teaching Staff, Director of Dance Science Externship with Goucher College, Medstar Union Memorial Hospital, Baltimore, MD
1991-Present	Attending Orthopaedic Surgeon, Medstar Good Samaritan Hospital, Baltimore, MD
1999-Present	Attending Orthopaedic Surgeon, Greater Chesapeake Surgery Center, Lutherville, MD
2001-Present	Director of Foot & Ankle Division, Director of Foot & Ankle Fellowship, Medstar Union Memorial Hospital, Baltimore, MD
2003-Present	Active Staff Part-Time, Department of Orthopaedic Surgery, Johns Hopkins Medical Institutions, Baltimore, MD
2005-Present	Orthobiologics Laboratory Founder & Director, Medstar Union Memorial Hospital, Baltimore, MD

Education and Training

1982	BS, Biology Major/History Minor; Union College, Schenectady, NY
1984	Doctor of Medicine, Albany Medical College, Albany, NY

Postdoctoral

1984-1985	Internship, General Surgery, Mount Sinai Medical Center, New York, NY
1985-1989	Residency, Orthopaedic Surgery, Hospital for Joint Disease Orthopaedic Institute, New York, NY
1988	American Orthopaedics Scholar, Foot and Ankle Surgery, University of Washington Harborview Medical Center, Seattle, WA
1989-1990	Fellowship, Foot and Ankle Orthopaedic Surgery, University of Texas Health Science, Houston, TX

Professional Experience

1988-1989	Instructor, Touro College, New York, NY
1989- 1999	Clinical Instructor of Orthopaedics, Clinical Instructor of Family Medicine, University of Texas Medical School, Houston, TX
1990-Present	Attending Orthopaedic Surgeon, Medstar Union Memorial Hospital, Baltimore, MD
1990-2002	Associate Director, Foot and Ankle Orthopaedic Division, Medstar Union Memorial Hospital, Baltimore, MD
1990-2002	Associate Director, Foot and Ankle Fellowship, Medstar Union Memorial Hospital, Baltimore, MD
2002- Present	Director, Foot and Ankle Orthopaedic Division, Medstar Union Memorial Hospital, Baltimore, MD
2002 -Present	Director, Foot and Ankle Fellowship, Medstar Union Memorial Hospital, Baltimore, MD
1990-Present	Teaching Staff, Orthopaedic Residency, Medstar Union Memorial Hospital, Baltimore, MD
1990-Present	Director, Dance Science Externship, Goucher College, Baltimore, MD
1991-Present	Attending Orthopaedic Surgeon, Medstar Good Samaritan Hospital, Baltimore, MD
1999-2008	Member of the Board of Directors, Greater Chesapeake Surgery Center, Baltimore, MD
2000-2005	Attending Orthopaedic Surgeon, Hospital for Joint Diseases Orthopaedic Institute, New York, NY
2003-Present	Active Staff, Part-Time, Department of Orthopaedic Surgery, Johns Hopkins Medical Institutions, Baltimore, MD
2003- 2005	Assistant Professor of Orthopaedic Surgery, Part-Time, Johns Hopkins University, Baltimore, MD
2005-Present	Clinical Associate Professor of Orthopaedics Surgery, Georgetown University Medical Center, Washington, DC
2009-2014	Assistant Professor of Biomedical Engineering, Part-time, Johns Hopkins University School of Medicine, Baltimore, MD
2014-Present	Associate Professor of Orthopaedic Surgery and Biomedical Engineering, Part-time, Johns Hopkins University School of Medicine, Baltimore, MD

RESEARCH ACTIVITIES

Publications: Peer-reviewed Original Science Research

Review Articles

1. **Schon LC**, Zuckerman JD. Hip pain in the elderly: Evaluation and diagnosis. *Geriatrics*. 1988; 43:48-62.
2. **Schon LC**, Baxter DE. Neuropathies of the foot and ankle in athletes. *Clin Sports Med*. 1990; 9(2): 489-509.
3. Clanton TO, **Schon LC**, Baxter DE. An overview of subtalar instability and its treatment. *Perspective*

- OrthopSurg. 1990; 1:103-113.
4. Saxby T, Myerson M, **Schon L**. Compartment syndrome of the foot following calcaneus fracture. *Foot/Ankle*. 1992; 2:157-161.
 5. **Schon LC**, Glennon TP, Baxter DE. Heel pain syndrome: Electrodiagnostic support for nerve entrapment. *Foot/Ankle*. 1993; 14:129-135.
 6. Skalley TC, **Schon LC**, Hinton RY, Myerson MS. Clinical results following revision tibial nerve release. *Foot/ Ankle Internat*. 1994; 15(7):360-367.
 7. **Schon LC**, Biddinger KR, Greenwood P. Dance screen programs and development of dance clinics. *Clin Sports Med*. 1994; 13:865-882.
 8. **Schon LC**. Nerve entrapment, neuropathy, and nerve dysfunction in athletes. *Orthop Clinics of North America*. 1994; 25:47-59.
 9. Myerson MS, Corrigan J, Thompson F, **Schon LC**. Tendon transfer combined with calcaneal osteotomy for the treatment of posterior tibial tendon insufficiency: A radiological investigation. *Foot/Ankle Int*. 1995; 16:712-718.
 10. **Schon LC**, Marks RM. The management of neuroarthropathic fracture-dislocations in the diabetic patient. *OrthopClin of North America*. 1995; 26:375-392.
 11. Davis TJ, **Schon LC**. Branches of the tibial nerve: Anatomic variations. *Foot/Ankle Int*. 1995; 16:21-29; [OR].
 12. Weinfeld SB, **Schon LC**, Myerson MS. Controversies and perils: Fusions of the foot and ankle in patients with rheumatoid arthritis. *Tech in Ortho*. 1996; 11:224-235.
 13. **Schon LC**, Weinfeld SB. Lower extremity musculoskeletal problems in dancers. *Current Opinion Rheum*. 1996; 8:130-142.
 14. **Schon LC**, Bell W. Tips and pearls: Crush-plasty of the calcaneus. *Tech in Ortho*. 1996; 11:222-223.
 15. **Schon LC**, Bell W. Fusions of the transverse tarsal and midtarsal joints. *Foot Ankle Clin*. 1996; 1:93-108.
 16. **Schon LC**. Tips and pearls: derotational triple arthrodesis for severe pes plano valgus correction. *Tech in Ortho*. 1996; 11:294-295.
 17. Mont MA, **Schon LC**, Hungerford MW, Hungerford DS. Avascular necrosis of the talus treated by core decompression. *Journ of Bone/Joint Surg*. 1996; 78B:827-830.
 18. Bell W, **Schon LC**. Tendon lacerations in the toes and foot. *Foot Ankle Clin*. 1996; 1:355-372.
 19. Levine SE, Myerson MS, Lucas P, **Schon LC**. Salvage of pseudoarthrosis after tibiotalar arthrodesis. *Foot/Ankle Int*. 1997; 18:580-585.
 20. Haddad SL, Myerson MS, Pell RFIV, **Schon LC**. The clinical and radiographic outcome of revision surgery for failed triple arthrodesis. *Foot/Ankle Int*. 1997; 18:489-499.
 21. **Schon LC**, Bell W. Fusion of the transverse tarsal and midtarsal joints. *Foot Ankle Clin*. 1998; 1:93-108.
 22. **Schon LC**, Weinfeld SB. Hallux metatarsophalangeal joint. *Clin Ortho*. 1998; 349:9-19.
 23. **Schon LC**, Weinfeld SB, Horton GA, Resch S. Radiographic and clinical classification of acquired midtarsus deformities. *Foot/Ankle Int*. 1998; 19(6):394-404.
 24. **Schon LC**, Easley ME, Weinfeld SB. Charcot neuroarthropathy of the foot and ankle. *Clin Ortho*. 1998; 349:116-131.
 25. Mizel MS, Temple HT, Michelson JD, et al. Thromboembolism after foot and ankle surgery: A multicenter study. *Clin Ortho*. 1998; 348:180-185.
 26. McGarvey WC, Trevino SG, Baxter DE, Noble PC, **Schon LC**. Tibiotalocalcaneal arthrodesis: Anatomic and technical considerations. *Foot/Ankle Int*. 1998; 19(6):363-369.
 27. Marks RM, **Schon LC**. Posttraumatic posterior tibialis tendon insertional elongation with functional incompetency: A case report. *Foot/Ankle Int*. 1998; 19(3):80-183.
 28. Marks RM, Parks B, **Schon LC**. Assessment and management of the rocker-bottom foot. Part II: A new neuropathic midfoot fusion technique for neuropathic feet: Biomechanical analysis and rationale. *Foot/Ankle Int*. 1998; 19(8):507-510.
 29. Cunningham BW, DiStefano AF, Kirjanov NA, Levine SE, **Schon LC**. A comparative biomechanical

- analysis of the pointe shoe toe box: An in-vitro study. *American Journal of Sports Med.* 1998; 26(4): 555-561.
30. Campbell JT, **Schon LC**, Parks BG, Wang Y, Berger BI. Mechanical comparison of biplanar proximal closing wedge osteotomy with plantar plate fixation versus crescentic osteotomy with screw fixation for the correction of metatarsus primus varus. *Foot/Ankle Int.* 1998; 19:293-299.
 31. Campbell JT, **Schon LC**, Burkhardt LD. Histopathologic findings in autogenous saphenous vein graft wrapping for recurrent tarsal tunnel syndrome: A case report. *Foot/Ankle Int.* 1998; 19(1):766-769.
 32. Biddinger KR, Komenda GA, **Schon LC**, Myerson MS. A new modified technique for harvest of calcaneal bone grafts in surgery on the foot and ankle. *Foot/Ankle Int.* 1998; 19(5):322-326.
 33. Mann MR, Acevedo JI, Easley ME, **Schon LC**. Seven-year review illuminates Charcot management. *BioMech.* 1999; 6:39-49.
 34. Weinfeld SB, **Schon LC**. Amputations of the perimeters of the foot. Resections of toes, metatarsals, rays, and calcaneus. *Foot Ankle Clin.* 1999; 4:17-37.
 35. **Schon LC**, DiStefano AF. Evaluation and treatment of posterior tibialis tendinitis: A case report and treatment protocol. *Journal of Dance Med and Science.* 1999; 3:24-27.
 36. **Schon LC**, Acevedo JI, Mann MR. Technique tip: The sliding wedge local bone graft for midfoot arthrodesis. *Foot/Ankle Int.* 1999; 20:340-341.
 37. Melamed EA, **Schon LC**. Lower limb amputation as a salvage for severe trauma. *Foot Ankle Clin.* 1999; 4:77-96.
 38. Kann JN, Parks BG, **Schon LC**. Biomechanical evaluation of two different screw positions for fusion of the calcaneocuboid joint. *Foot/Ankle Int.* 1999; 20:33-36.
 39. Trnka H-J, Parks BG, Ivanic G, Chu I-T, Easley ME, **Schon LC**, Myerson MS. Six first metatarsal shaft osteotomies: Mechanical and immobilization comparisons. *Clin Orthop.* 2000; 381:256-265.
 40. Pell RFIV, **Schon LC**, Myerson MS. Clinical outcome after primary triple arthrodesis. *Journal of Bone/Joint Surg.* 2000; 82A:47-57.
 41. Myerson MS, **Schon LC**, McGuigan FX, Ozgur A. Result of arthrodesis of the hallux metatarsophalangeal joint using bone graft for restoration of length. *Foot/Ankle Int.* 2000; 21:297-306.
 42. Melamed EA, Myerson MS, **Schon LC**. A review of tendon passing techniques and introduction of a new method using a suction tip. *Foot/Ankle Int.* 2000; 21:693-696.
 43. **Schon LC**, Cohen I, Horton GA. Treatment of the diabetic neuropathic flatfoot. *Techniques of Orthopaedics.* 2000; 15:277-289.
 44. Easley ME, Trnka H-J, **Schon LC**, Myerson MS. Isolated subtalar arthrodesis. *Journal of Bone/Joint Surg.* 2000; 82-A:613-624.
 45. Easley ME, **Schon LC**. Peripheral nerve vein wrapping for intractable lower extremity pain. *Foot/Ankle Int.* 2000; 21:492-500.
 46. Kleeman TJ, Chiodo CP, Lam PWC, Levin GB, **Schon LC**. A prospective analysis of peripheral nerve stimulation for lower extremity nerve pain. *Intern Functional Electrical Stim Soc.* 2000;
 47. Raikin SM, **Schon LC**. Nerve entrapments of the foot and ankle of an athlete. *Sports Med and Arthroscopy Rev.* 2000; 8:387-394.
 48. Trnka H-J, Easley ME, Lam PWC, Anderson CD, **Schon LC**, Myerson MS. Subtalar distraction bone block arthrodesis. *Journal of Bone/Joint Surg.* 2001; 83B:849-854.
 49. **Schon LC**, Lam PWC, Easley ME, Anderson CD, Lumsden DB, Shanker J, Levin GB. Complex salvage procedures for severe lower extremity neuropathic pain. *Clin Orthop.* 2001; 391:171-180.
 50. **Schon LC**, Anderson CD, Easley ME, Lam PWC, Trnka H-J, Lumsden DB, Levin G, Shanker J. Surgical treatment of chronic lower extremity neuropathic pain. *Clin Orthop.* 2001; 389:156-164.
 51. Raikin SM, Parks BG, **Schon LC**, Noll KH. Biomechanical evaluation of the ability of casts and braces to immobilize ankle and hindfoot. *Foot/Ankle Int.* 2001; 22:214-219.
 52. **Schon LC**, Short KW, Soupiou O, Noll K, Rheinstein J. Benefits of early prosthetic management of transtibial amputees: A prospective clinical study of a prefabricated prosthesis. *Foot/Ankle Int.* 2002;

- 23:509-514.
53. **Schon LC**, Edwards WHB, McGuigan FX, Hoffman J. Pedobarographic and musculoskeletal examination of collegiate dancers in releve. *Foot/Ankle Int.* 2002; 23:641-646.
 54. **Schon LC**, Easley ME, Cohen I, Lam PWC, Badekas A, Anderson CD. The acquired midtarsus deformity classification system: Interobserver reliability and intraobserver reproducibility. *Foot/Ankle Int.* 2002; 23:30-36.
 55. Neufeld SK, Parks BG, Naseef G, Melamed EA, **Schon LC**. Arthrodesis of the first metatarsophalangeal joint: A biomechanical study comparing memory compression staples, cannulated screws, and a dorsal plate. *Foot/Ankle Int.* 2002; 23:97-101.
 56. Melamed EA, **Schon LC**, Myerson MS, Parks BG. Two modifications of the Weil osteotomy: Analysis on sawbone models. *Foot/Ankle Int.* 2002; 23:400-405.
 57. Boucher HR, Parks BG, Kleeman TJ, Dunn WR, Badekas A, Melamed EA, Noll KH, **Schon LC**. A biomechanical study of two postoperative prostheses for transtibial amputees: A custom molded and prefabricated adjustable pneumatic prosthesis. *Foot/Ankle Int.* 2002; 23:451-456.
 58. Acevedo JI, Sammarco VJ, Boucher HR, Parks BG, **Schon LC**, Myerson MS. Mechanical comparison of cyclic loading in five different first metatarsal shaft osteotomies. *Foot/Ankle Int.* 2002; 23:711-716.
 59. Raikin SM, **Schon LC**. Arthrodesis of the fourth and fifth tarsometatarsal joints of the midfoot. *Foot/Ankle Int.* 2003; 24:584-590.
 60. Lumsden DB, **Schon LC**, Easley M, Duouguih, WA, Anderson CD, Miller SD, Ottry DK. Topography of the distal tibial nerve and its branches. *Foot/Ankle Int.* 2003; 24:696-700.
 61. Chiodo CP, Acevedo J, Sammarco VJ, Prks BG, Boucher HR, Myerson MS, **Schon LC**. Intramedullary rod fixation compared with blade-plate-and-screw fixation for tibiototalcalcaneal arthrodesis: A biomechanical investigation. *Journal of Bone/Joint Surg.* 2003; 85A:2425-2428.
 62. Pinzur MS, Pinto MA, **Schon LC**, Smith DG. Controversies in amputation surgery. *Instr Course Lect.* 2003; 52:445-451.
 63. Vora AM, **Schon LC**. Revision peripheral nerve surgery. *Foot Ankle Clin.* 2004 Jun; 9(2):305-318.
 64. **Schon LC**, Short KW, Parks BG, Kleeman TJ, Mroczek KJ. Efficacy of a new pressure-sensitive alarm for clinical use in orthopaedics. *Clin Orthop.* 2004 Jun; 423:235-239.
 65. **Schon LC**. Salvage of failed heel pain surgery. In: Nunley JA, Pfeffer GB, Sanders RW, Trepman E, (eds). *Advanced Reconstruction: Foot and Ankle.* Rosemont, IL: AAOS; 2004: 349-352.
 66. Myerson MS, Badekas A, **Schon LC**. Treatment of stage II posterior tibial tendon deficiency with flexor digitorum longus tendon transfer and calcaneal osteotomy. *Foot/Ankle Int.* 2004 Jul; 25(7):445-50.
 67. Lau JTC, Stamatis ED, Parks BG, **Schon LC**. Modifications of the Weil osteotomy have no effect on plantar pressure. *Clin Orthop.* 2004 Apr; 421:194-198.
 68. Dunn WR, Easley ME, Parks BG, Trnka H-J, **Schon LC**. An augmented fixation method for distal fibular fractures in elderly patients: A biomechanical evaluation. *Foot/Ankle Int.* 2004 Mar; 25(3):128-131.
 69. Chiodo CP, **Schon LC**, Myerson MS. Clinical results with the Ludloff osteotomy for correction of adult hallux valgus. *Foot/Ankle Int.* 2004 Aug; 25(8):532-536.
 70. Title CI, Jung H-G, Parks BG, **Schon LC**. The peroneal groove deepening procedure: A biomechanical study of pressure reduction. *Foot/Ankle Int.* 2005 Jun; 26(6):442-448.
 71. Sharma KM, Parks BG, Nguyen A, **Schon LC**. Plantar-to-dorsal compared to dorsal-to-plantar screw fixation for proximal chevron osteotomy: A biomechanical analysis. *Foot/Ankle Int.* 2005 Oct; 26(10):854-858.
 72. **Schon LC**, Dom KJ, Jung H-G. Clinical tip: Stabilization of the proximal Ludloff osteotomy. *Foot/Ankle Int.* 2005 Jul; 26(7):579-581.
 73. Sanders AP, Weijers RE, Snijders CJ, **Schon LC**. Three-dimensional reconstruction of magnetic resonance images of a displaced flexor hallucis longus tendon in hallux valgus. *Journal of American Podiatric Med Ass.* 2005 Jul; 95(4):401-404.

74. Rosenfeld JF, Parks BG, **Schon LC**. Biomechanical investigation of optimal fixation of isolated talonavicular joint fusion. Winner of Resident Writer's Award. *American Journal of Orthop*. 2005 Sep; 34(5):445-448.
75. Lau JTC, Mahomed NN, **Schon LC**. Results of an Internet survey determining the most frequently used ankle scores by AOFAS members. *Foot/Ankle Int*. 2005 Jun; 26(6):479-482.
76. Jung H-G, Zaret D, Parks BG, **Schon LC**. Effect of first metatarsal shortenings and dorsiflexion osteotomies on forefoot plantar pressure in a cadaveric model. *Foot/Ankle Int*. 2005 Sep; 26(9):748-753.
77. Jung H-G, Guyton GP, Parks BG, Title CI, Dom KJ, Nguyen A, et al. Supplementary axial Kirschner wire fixation for crescentic and Ludloff proximal metatarsal osteotomies: A biomechanical study. *Foot/Ankle Int*. 2005 Aug; 26(8):620-626.
78. Cohen DA, Parks BG, **Schon LC**. Screw fixation compared to H-locking plate fixation for first metatarsocuneiform arthrodesis: a biomechanical study. *Foot/Ankle Int*. 2005 Nov; 26(11):984-989.
79. Vora AM, Tien TR, Parks BG, **Schon LC**. Correction of moderate and severe acquired flexible flatfoot with medializing calcaneal osteotomy and flexor digitorum longus transfer. *Journal of Bone/Joint Surg*. 2006 Aug; 88(8):1726-1734.
80. Van Aman SE, **Schon LC**. Subtalar arthroereisis as adjunct treatment for type II posterior tibial tendon deficiency. *Tech of Foot/Ankle Surg*. 2006; 5(2):117-125.
81. Chodos MC, **Schon LC**. Osteochondral lesions of the talus: Current treatment modalities and future possibilities. *Current Opinion in Orthop*. 2006 Mar; 17:111-116.
82. Miller SD, **Schon LC**. Clinical tip: Late medial ankle pain as indicator of syndesmotic instability. *Foot/Ankle Int*. 2006 Sep; 27(9):746-747.
83. Means KR, Jr. Parks BG, Nguyen A, **Schon LC**. Intramedullary nail fixation with posterior-to-anterior compared to transverse distal screw placement for tibiotalar calcaneal arthrodesis: A biomechanical investigation. *Foot/Ankle Int*. 2006 Dec; 27(12):1137-1142.
84. Baumhauer JF, O'Keefe RJ, **Schon LC**, Pinzur MS. Cytokine-induced osteoclastic bone resorption in Charcot arthropathy: An immunohistochemical study. *Foot/Ankle Int*. 2006 Oct; 27(10):797-800.
85. Benthien RA, Parks BG, Guyton GP, **Schon LC**. Lateral column calcaneal lengthening, flexor digitorum longus transfer, and opening wedge medial cuneiform osteotomy for flexible flatfoot: A biomechanical study. *Foot/Ankle Int*. 2007 Jan; 28(1):70-77.
86. Jung H-G, Parks BG, Nguyen A, **Schon LC**. Effect of tibiotalar joint arthrodesis on adjacent tarsal joint pressure in a cadaveric model. *Foot/Ankle Int*. 2007 Jan; 28(1):103-108.
87. Bae S-Y, **Schon LC**. Surgical strategies: Ludloff first metatarsal osteotomy. *Foot/Ankle Int*. 2007 Jan; 28(1):137-144.
88. Jung HG, Myerson MS, **Schon LC**. Spectrum of operative treatments and clinical outcomes for atraumatic osteoarthritis of the tarsometatarsal joints. *Foot/Ankle Int*. 2007 Apr; 28(4):482-489.
89. Logel KJ, Parks BG, **Schon LC**. Calcaneocuboid distraction arthrodesis and first metatarsocuneiform arthrodesis for correction of acquired flatfoot deformity in a cadaver model. *Foot/Ankle Int*. 2007 Apr; 28(4):435-440.
90. Keeling JJ, **Schon LC**. Risk to neurovascular structures using posterolateral percutaneous ankle screw placement: A cadaver study. *Foot/Ankle Int*. 2007 May; 28(5):614-616.
91. O'Neill PJ, Parks BG, Walsh R, Simmons LM, **Schon LC**. Biomechanical analysis of screw-augmented intramedullary fixation for tibiotalar calcaneal arthrodesis. *Foot/Ankle Int*. 2007 Jul; 28(7):804-809.
92. **Schon, LC**. Subtalar arthroereisis: A new exploration of an old concept. *Foot Ankle Clin North America*. 2007; 12(2):329-339.
93. Van Aman SE, Rivera VR, Khazen GE, **Schon LC**. Preliminary findings using subtalar arthroereisis as adjunct treatment for correction of acquired flexible flatfoot: Short-term radiographic results. *Revista ABTPé*. 2007 Dec; 1(2):13-17.
94. League AC, Parks BG, Ozgur A, **Schon LC**. Transarticular versus extraarticular ankle pin fixation: A biomechanical study. *Foot/Ankle Int*. 2008 Jan; 29(1):62-65.

95. Kirk KL, **Schon LC**. Technique tip: Periosteal flap augmentation of the Brostrom lateral ankle reconstruction. *Foot/Ankle Int.* 2008 Feb; 29(2):254-255.
96. Chodos MD, Parks BG, **Schon LC**, Guyton GP, Campbell JT. Blade plate compared with locking plate fixation for tibiototalcalcaneal arthrodesis: A cadaver study. *Foot/Ankle Int.* 2008 Feb; 29(2):219-224.
97. O'Neill PJ, Logel KJ, Parks BG, **Schon LC**. Rigidity comparison of locking plate and intramedullary fixation for tibiototalcalcaneal arthrodesis. *Foot/Ankle Int.* 2008 Jun; 29(6):581-586.
98. Title CI, **Schon LC**. Morton neuroma: Primary and secondary neurectomy. *Journal of AAOS.* 2008 Sep; 16(9):550-557.
99. Gruber FW, Sinkov VS, Bae S-Y, Parks BG, **Schon LC**. Crossed screws versus dorsomedial locking plate with compression screw for first metatarsocuneiform arthrodesis: A cadaver study. *Foot/ Ankle Intern.* 2008 Sep; 29(9):927-930.
100. League AC, Parks BG, **Schon LC**. Radiographic and pedobarographic comparison of femoral head allograft versus block plate with dorsal opening wedge medial cuneiform osteotomy: A biomechanical study. *Foot/ Ankle Intern.* 2008 Sep; 29(9):922-926.
101. Kirk KL, Campbell JT, Guyton GP, Parks BG, **Schon LC**. ATFL elongation after Brostrom procedure: A biomechanical investigation. *Foot/ Ankle Intern.* 2008 Nov; 29(11):1126-1130.
102. Kirk KL, Campbell JT, Guyton GP, **Schon LC**. Accuracy of posterior subtalar joint injection without fluoroscopy. *Clin Orthop and Related Research.* 2008 Nov; 466(11):2856-2860.
103. Scherb MB, Han S-H, Courneya J-P, Guyton GP, **Schon LC**. Effect of bupivacaine on cultured tenocytes. *Orthop.* 2009 Jan; 32(1):26.
104. Han S-H, Lee JW, Parks BG, Courneya J-P, Guyton GP, **Schon LC**. The effect of extracorporeal shock wave therapy on cultured tenocytes. *Foot/Ankle Int.* 2009 Feb; 30(2):93-98.
105. **Schon LC**. Assessment of the foot and ankle in elite athletes. *Sports Med Arthroscopy Rev.* 2009 June; 17(2):82-86.
106. Allen PG, **Schon LC**. Hallux varus: Correction with the abductor hallucis tendon transfer and suture button construct insertion. *Tech of Foot/Ankle Surg.* 2009 Dec; 8(4):194-199.
107. Groth AT, Guyton GP, **Schon LC**. Lateral ankle ligament injuries in athletes: Diagnosis and treatment. *Op Tech in Sports Med.* 2010 Mar; 18(1):18-26.
108. Courneya JP, Luzina IG, Zeller CB, Rasmussen JF, Bocharov A, **Schon LC**, Atamas SP. Interleukins 4 and 13 modulate gene expression and promote proliferation of primary human tenocytes. *Fibrogenesis & Tissue Repair.* 2010;
109. Nadaud JP, **Schon LC**. Chronic Charcot midfoot reconstruction. *Tech of Foot/Ankle Surg.* 2010 Sep; 9(3):123-133.
110. Ohlson BL, Shatby MW, Parks BG, White KL, **Schon LC**. Periarticular locking plate versus intramedullary nail for tibiototalcalcaneal arthrodesis: A biomechanical investigation. *American Journal of Orthop (Belle Mead NJ).* 2011 Feb; 40(2):78-83.
111. Yan AY, Mesfin A, **Schon LC**. Lateral process talus fracture in a kayaking sports injury: A case report and review. *Orthop.* 2011 Apr; 34(4):296-299.
112. Chhabra A, Soldatos T, Chalian M, Faridian-Aragh N, Fritz J, Fayad LM, Carrino JA, **Schon LC**. 3-Tesla magnetic resonance imaging evaluation of posterior tibial tendon dysfunction with relevance to clinical staging. *The Journal of Foot/Ankle Surg.* 2011 May-Jun; 50(3):320-328.
113. Peters PG, Adams SB Jr, **Schon LC**. Interdigital neuralgia. *Foot Ankle Clin.* 2011 Jun; 16(2):305-315.
114. Adams SB Jr, Peters PG, **Schon LC**. Persistent or recurrent interdigital neuromas. *Foot Ankle Clin.* 2011 Jun; 16(2):317-325.
115. Adams SB, Jr., Yao JQ, **Schon LC**. Particulated juvenile articular cartilage allograft transplantation for osteochondral lesions of the talus. *Tech of Foot/Ankle Surg.* 2011 Jun; 10(2):92-98.
116. Myers SH, **Schon LC**. Forefoot tendon transfers. *Foot Ankle Clin.* 2011 Sep; 16(3):471-488.
117. **Schon LC**, Peters PG, Jai X. The use of platelet-rich plasma in the management of foot and ankle conditions. *Op Tech in Sports Med.* 2011 Sep; 19(3):177-184.

118. Nadaud JP, Parks BG, **Schon LC**. Plantar and calcaneocuboid joint pressure after isolated medial column fusion versus medial and lateral column fusion: A biomechanical study. *Foot/Ankle Int.* 2011 Nov; 32:1069-1074.
119. Chhabra A, Soldatos T, Chalian M, Carrino JA, **Schon LC**. Current concepts review: 3T magnetic resonance imaging of the ankle and foot. *Foot/Ankle Int.* 2012 Feb; 33(2):164-171.
120. Wisbeck JM, Parks BG, **Schon LC**. Xenograft scaffold full-wrap reinforcement of Krackow Achilles tendon repair. *Orthop.* 2012 Mar 7; 35(3):e331-e334.
121. Peters PG, Parks BG, **Schon LC**. Anterior distal tibia plafondplasty for exposure of the talar dome. *Foot/Ankle Int.* 2012 Mar; 33(3):231-235.
122. Park JS, **Schon LC**. Acquired adult flatfoot deformity. In: Saxena A, (ed). *International Advances in Foot and Ankle Surgery*. Springer-Verlag; 2012:377-390
123. Miller SD, **Schon LC**. Arthroscopic filling of talar osteochondral defects with stem cell-rich collagen paste. *Tech of Foot/Ankle Surg.* 2012 Sep; 11(3):135-139.
124. Humbyrd C, **Schon LC**. Arthroereisis for correction of flexible flatfoot in children and adolescents. *AAOS Orthop Know Online [serial online]* 2012 Jan; 10(1).
125. Adams SB, Jr., Lewis J, Gupta A, Parekh SG, **Schon LC**. Cannulated screw delivery of bone marrow aspirate concentrate to a stress fracture nonunion: Technique tip. *Foot/Ankle Int.* 2013; 34:740-4.
126. **Schon LC**, Saltzman CL, Lofgren L. Editorial. *Foot & Ankle International* 01/2013; 34(1):1.
127. **Schon LC**, Shores JL, Faro FD, Vora AM, Camire LM, Guyton GP. Flexor hallucis longus tendon transfer in treatment of Achilles tendinosis. *The Jour of Bone/Joint Surgery.* 2013 Jan; 95(1):54-60.
128. Coetzee JC, Giza E, **Schon LC**, Berlet GC, Neufeld S, Stone RM, Wilson EL. Treatment of osteochondral lesions in the ankle with a particulated juvenile cartilage allograft: Outcomes in a challenging clinical population. *Foot/Ankle Int.* 2013 March;
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131. Molligan J, **Schon LC**, Zhang Z. A stereologic study of the plantar fat pad in young and aged rats. *Jour of Anatomy.* 2013 May; 223:537-45.
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140. Molligan J, **Schon LC**, Zhang Z. Dissection of the osteogenic and angiogenic signal pathways in bone development and regeneration with biochips. *Biochips & Tissue Chips.* 2014; 4:109.
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- gene expression in normal and degenerative human tendon cells: Effect of cyclic strain. *Foot/Ankle Int.* 2014 June; 35:1045-56.
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 146. **Schon LC**. Should patients with Morton neuroma be treated with cortisone injection? *J Bone Joint Surg Am* 2014; 96:334.
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 151. Lee CA, Tan EW, Giza E, **Schon LC**. Particulate juvenile cartilage allograft transplantation for osteochondral lesions of the talus. In: Alexander IJ, Bluman EM, Greisberg JK, editors. *Advanced Reconstruction: Foot and Ankle 2*. 2 ed. Rosemont, IL: American Academy of Orthopaedic Surgeons; 2015. p. 315-9.
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163. Tan EW, Maccario C, Talusan PG, **Schon LC**. Early complications and secondary procedures in transfibular total ankle replacement. *Foot Ankle Int* 2016; 37:835-41.
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166. Molligan J, Mitchell R, **Schon L**, Achilefu S, Zahoor T, Cho Y, Loube J, Zhang Z. Influence of Bone and Muscle Injuries on the Osteogenic Potential of Muscle Progenitors: Contribution of Tissue Environment to Heterotopic Ossification. *Stem Cells Transl Med*. 2016; 5(6):745-53
167. Kumar NM, de Cesar NC, **Schon LC**, Fritz J. Metal artifact reduction magnetic resonance imaging around arthroplasty implants: the negative effect of long echo trains on the implant-related artifact. *Invest Radiol* 2017; 52:310-6.
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169. de Cesar Netto C, da Fonseca LF, Nascimento FS, O'Daley AE, Tan EW, Dein EJ, Godoy-Santos AL, **Schon LC**. Diagnostic and therapeutic injections of the foot and ankle: an overview. *Foot Ankle Surg* 2017; In press
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171. Bischoff JE, **Schon LC**, Saltzman CL. Influence of geometry and depth of resections on bone support for total ankle replacement. *Foot Ankle Int* 2017; 38:1026-34.

Inventions, Patents, Copyrights

- | | |
|-----------|---|
| 4/9/2002 | Airlimb; immediate or early pneumatic leg prosthesis; Designed with Aircast and DFW; US Patent No: 6368357 |
| 6/3/2003 | Internal Fixation Device, Modular blade-rod, intramedullary fixation device; Designed with Concepts in Medicine, US Patent No: 6572620 |
| 1/1/2004 | Flex Four Lead; Fabricated and implanted, no intellectual property; Designed with Medtronic; |
| 9/3/2004 | Surgical apparatus to allow replacement of degenerative ankle tissue; Ankle Cutting Jig; Designed with Concepts in Medicine, US Patent No: 2004/0193169 |
| 1/6/2005 | Ankle Joint Prosthesis and its Method for Implantation; Designed with Zimmer and Concepts in Medicine, US Patent Application: US Patent No: 20050004676 |
| 4/11/2006 | Ankle Joint Prosthesis and its Method of Implantation; Total Ankle Replacement; Mobile ankle joint prosthesis and its method of implementation; US Patent No: 7025790 |
| 8/10/2006 | Airlift; Devices and methods for adjustable foot correction; Designed with Aircast/DJ Orthopaedics and Concepts in Medicine; US Patent Application No: 2006/0178606; Patent Awarded |
| 8/24/2006 | ProStop Subtalar Arthroereisis implant; Prosthesis for correction for flat foot deformity; Designed with Arthrex and Concepts in Medicine; US Patent Application No: 2006/0190088; Patent Awarded |
| 7/3/2007 | Surgical apparatus to allow replacement of degenerative ankle tissue; Ankle Cutting Jig; Designed by Concepts in Medicine; US Patent No: 7238190 |

- 7/27/2007 Foot Pressure Detection Device; Compliance Monitor; In-cast monitor that records patient weight bearing; Designed with Concepts in Medicine; Publication No. 2007/0161920 WO/2006/091715 ; International Application No: Pct/US2006/006371; Patent No: 7506563
- 11/8/2007 Pneumatic Night Splint; Device and method for treating foot with adjustable bladder; Designed with Darco and Concepts in Medicine; US Patent Application No: 2007/0260164; Patent pending
- 6/19/2008 Toe Protector; Detachable post-operative protective device for the toes and forefoot; Designed with Darco, Concepts in Medicine and David Rini; US Patent No: 20080141565
- 9/25/2008 Adjustable Pneumatic Cell Foot Arthrosis; Air Orthotic Device; Designed with Concepts in Medicine; US Patent Application No: 2008/0229611 [OLD]
- 9/25/2008 Foot specific plates/screws; Nexa Orthopaedics product line of internal fixation devices; Sold to Tornier; Patent pending
- 2/24/2009 Minimally invasive calcaneal fracture plate; Plate and system for lateral treatment of a fracture of the calcaneus; Wave Plate ; Designed with Tornier; Provisional Patent No: 61/155021; French Patent No: 0935233; Patent No: 2010/0217327;
- 3/3/2009 Modular Blade Rod; Intermedullary fixation device; Designed with Concepts in Medicine; Doc No: 20090062796
- 3/24/2009 Foot Pressure Detection Device Compliance Monitor; In-cast monitor that records patient weight bearing; Designed with Concepts in Medicine; Publication No. 2007/0161920 WO/2006/091715 ; International Application No: Pct/us2006/006371; Patent No: 7506563
- 11/5/2009 ProStop Subtalar Arthroereisis Implant; Prosthesis for correction for flat foot deformity Designed with Arthrex and Concepts in Medicine; US Patent Application No: 2009/0276046; Patent awarded
- 11/16/2010 Pneumatic Night Splint; Device and method for treating foot with adjustable bladder; Designed with Darco and Concepts in Medicine; US Patent Application No: 2007/0260164; Patent No: 7833184
- 12/24/2009 Surgical Sutures; Incorporated with stem cells or other bioactive materials; Designed with Bioactive Surgical LLC; US patent No: 2009/0318962
- 5/20/2010 Transplug; Therapeutic materials delivery system for tissue voids and cannulated implants; Designed with Bioactive Surgical Inc.; US Patent No: 2010/0125240
- 7/14/2010 Patch Augmentation of Achilles Tendon Repair; Designed with Tornier; US Patent Application No: 61/144332
- 11/16/2010 Patch Augmentation of Achilles Tendon Repair; Designed with Tornier; US Patent No: 2010/0179591
- 11/1/2011 Prosthesis; Disigned with Vancelette, Lew Schon, Litke andTornier; Document No: D648027
- 7/2011 Device for Correcting Hallux Valgus; Designed with BoneFix; Patent Pending [OLD]
- 7/3/2012 Modular Blade-Rod Intermedullary Fixation Device; Designed with Concepts in Medicine; US Patent No: 8211107
- 11/27/2012 Therapeutic Material Delivery Sykstem for Tissue Voids and Cannulated Implants; Designed with Bioactive Surgical, Inc., US Patent No 8317799
- 4/4/2013 Talonavicular Joint Prosthesis and its Method of Implantation; Designed with Concepts in Medicine VI, LLC; Application No: 10856791.8-1654; Patent No: PCT/US2010002429
- 4/19/2013 Talonavicular Joint Prosthesis and its Method of Implantation; Designed with Concepts in Medicine VI, LLC; US Patent No: PCT/US2010002429
- 11/26/2013 Devices and Methods for Adjustable Foot Correction; Designed with DJO, LLC; US Patent No. 8591440
- 11/4/2014 Surgical Sutures Incorporated with Stem Cells or Other Bioactive Materials; Designed with Bioactive Surgical, Inc., US Patent No. 8876864
- 2/17/2015 Detachable Post-Operative Protective Device for the Toes and Forefoot; Designed with _____, US Patent No. 8955237

2/19/2015	Subtalar Joint Prosthesis and Its Method of Implantation; Designed with Concepts in Medicine; US Patent No: 20150051706
4/26/2016	Semi-Constrained Ankle Joint Prosthesis and Its Method of Implantation; Designed with _____, US Patent No 9320609
5/24/2016	Orthopedic Implant for Treatment of Bone Deformities; Device for Correcting Hallux Valgus; Designed with BoneFix; US Patent No: 9345514
9/6/2016	Therapeutic Material Delivery System for Tissue Voids and Cannulated Implants; Designed with Bioactive Surgical, Inc., US Patent No 9433436
9/20/2016	Surgical Suture Incorporated with Stem Cells or Other Bioactive Materials; Designed with Bioactive Surgical, Inc., US Patent No 9446164
10/25/2016	Talonavicular Joint Prosthesis and Its Method of Implantation; Designed with _____; US Patent No 9474620
9/19/2017	Intramedullary Fixation Device; Device for use in fixating, after an osteotomy or fracture, segments of a long, tubular bone; Designed with _____ US Patent No 9763708

Extramural Funding

Grants:

CURRENT

2012-2013	Smith Nephew Endoscopy Fellowship Grant \$25,000 Role: PI:
2013-2014	Stem Cell Bearing Suture for Tendon/Ligament Reconstruction in Healing Impaired Patients Pre Clinical Grant Award \$500,000 Maryland Stem Cell Research Fund Role: PI: 60%
2013-2014	Adipogenesis of Adipose Tissue Derived Stem Cells in Foot Fat Pad American Orthopaedic Foot & Ankle Society \$20,000 Role: Co-PI
2013-2014	Arthrex Fellowship Grant Arthrex \$30,000 Role: PI
2014	Omega Fellowship Grant \$7,000 Role: PI
2014-2015	Application of Pulsed Low-Intensity Ultrasound for Prevention of Posttraumatic Osteoarthritis Bioventus \$12,000 Role: Co-PI
2014-2016	Enhancing the Revitalization and Incorporation of Bone Allograft with Circulating Mesenchymal Stem Cells Maryland Stem Cell Research Fund \$223,779 Role: Co-PI

PREVIOUS

- 1990s The Immediate Postoperative Prosthesis for Below-Knee Amputees: Biomechanical and Prospective Studies
99-466 & 99-670
Aircast
\$20,000/2 years
Role: PI: 60%; Notes: Unrestricted research grant. Published in Foot/Ankle Int.
- 1990s Efficacy of a New Pressure-Sensitive Alarm for Clinical Use in Orthopaedics
99-628
Aircast
\$20,000
Role: PI: 20 %;
- 1998 Pneumatic Achilles Wrap
Aircast
\$2,000
Role: PI: 60%; Notes: Poster presentation
- 1998-2001 Peripheral Nerve Stimulator Prospective Study
IRB 1999-461/462
Medtronic
\$60,000/3 years
Role: PI: 70%; Notes: Unrestricted research grant
- 1998-2002 Comparative Biomechanical Analysis of Fusion Techniques for Tibiocalcaneal Arthrodesis
AOFAS
\$10,000
Role: PI: 30%; Notes: Grant award for research proposal. Published in Jour of Bone/ Joint Surg.
- 2000s Screw Pullout Study
DePuy
\$8,000
Role: PI: 20%
- 9/20/2000 Biomechanical Talonavicular Stability
Synthes
\$5,000
PI: Jonathan Rosenfeld, M.D.; Role: 30%; Notes: Unrestricted research Grant. Winner of the Am Jour of Ortho a Synthes Sponsored Research Award 2006.
- 2000-2003 Comparison of Aircell-Lined and Foam-Lined Walking Braces in Managing Plantar Neuropathic Foot Ulceration
Aircast
\$24,000
Role: PI: 20%
- 2000 – 2005 Cytokine Induced Osteoclastic Bone Resorption in Charcot Arthropathy: An Immunohistochemical Study in Charcot Joints or Identification of Inflammatory Mediators Present in Neuropathic Joints
2000-382
University of Rochester
Material and shipping costs
Role: Co-investigator; PI: Judith Baumhauer, M.D.; 15%; Notes: Published by Baumhauer. Winner of the Goldner Research Award
- 1/8/2004-1/5/2006 Evaluation of the KMI MBA Arthroereisis Implant
2003-252
KMI

\$20,500
 Role: PI: 60%
 8/2005-1/2006 Determination of the Loads Arthroeresis Plugs are Subjected to when Placed in the Sinus Tarsi
 ORC 402
 Arthrex
 \$10,150
 Role: PI: Brent Parks, M.D.; 10%; Notes: Equipment cost
 11/09/2005 Blade Plate Compared to Locking Plate Fixation for Tibiototalcaneal Arthrodesis: A Biomechanical Study
 ORC 0513
 Synthes
 \$58,000
 Role: PI: Marc Chodos, M.D.; 10%; Notes: Equipment
 2/1/2006 Cotton Osteotomy: A Comparison of Pressure and Angular Changes and Fixation Strength with Allograft or Plate Fixation
 ORC 0515
 Arthrex
 \$6,000
 Role: PI: Alan League, M.D.; 10%; Notes: Equipment
 5/1/2006-5/1/2007 Inflammatory Cytokine Expression Degenerative Tendinosis: Quantitative Description and Relation to Whole-Tendon Mechanical Stimuli
 IRB 2005-154/ORC 0421
 AOFAS
 \$10,000
 Role: PI: 10%
 2007 In-Vitro Response of Normal and Diseased Tenocytes to PDGF-BB
 102N46321100
 Biomimetic Therapeutics
 \$39,000
 Role: PI: 20%
 4/5/2007 -5/1/2008 Quantitative and Qualitative Description: Effects of Bone Marrow Derived Growth Factors and Cytokines on Autogenous Mesenchymal Stem Cells of Various Aspiration Sites
 IRB 2006-268
 AOFAS
 \$10,000
 Role: PI: 20%
 2008-2010 Bone and Tendon Healing Mechanisms of Mesenchymal Stem Cells and Hematopoetic Progenitors Derived from Human Adult Bone Marrow
 Maryland Stem Cell Research Fund
 \$115,000/ 2 years
 Role: PI: Sergei Atamas, M.D., PhD, University of Maryland; 10%; Notes: Paper published: Courneya JP, Luzina IG, Zeller CB, Rasmussen JF, Bocharov A, **Schon LC**, Atamas SP. Interleukins 4 and 13 modulate gene expression and promote proliferation of primary human tenocytes. Fibrogenesis Tissue Repair. 2010;3:90.
 2008-2010 Retrospective Review of 50 Cases for Safety and Efficacy: Bone Marrow Aspiration for Complex Foot and Ankle Cases
 Biomet
 \$35,000-40,000
 Role: PI: 40%

- 2009 High-Density Nanofilms for Orthopaedic Therapies
Maryland Nanobiotechnology Research and Industry Competition Grant, Maryland Technology Development Corporation (TEDCO) & Maryland Biotechnology Center, Department of Business and Economic Development (DBED)
\$250,000
Role: Co-Investigator; PI: Margaret Thorpe; Notes: The objective is to create a device for isolation, concentration, and delivery of stem cells or other therapeutic cells in conjunction with metallic, synthetic, autogenous, allogenic, or xenographic implants.
- 2010 Metabolic Profiling and Cytokine Analysis of Synovial Fluid in Healthy and End-Stage Post-Traumatic Ankle Joints
OEF/AOFAS
\$20,000
Role: Co- Investigator; PI: Samuel B. Adams, M.D.;
- 2010-2012 Fellowship Grant
Omega Grant
\$30,000
Role: PI: 50%

Industry- Sponsored Studies:

CURRENT

- 2009-2013 A Prospective, Randomized, Controlled, Multi-Center, Pivotal Human Clinical Trial to Evaluate the Safety and Effectiveness of GEM OS1 Bone Graft Compared to Autologous Bone Graft as a Bone Regeneration Device in Foot and Ankle Fusions
Biomimetic Therapeutics
Role: PI: Notes: Funded study under contract based on per patient enrollment.
- 2009-2013 A Prospective, Randomized, Controlled, Multi-Center, Injectable Bone Graft Biomimetic Therapeutics
PI: Role: Notes: Funded study under contract based on per patient enrollment.
- 2009-2013 Juvenile Particulate Cartilage Allograft Study: Multi-Center, Retrospective Studies
Zimmer Biologics
Role: PI: Notes: Funded study under contract based on per patient enrollment.

Intramural Funding:

PREVIOUS

- 1998-2002 Clinical Use of Pressure Alarm in Postoperative Patients
MedStar Research Institute
\$13,000
Role: PI: 20%; Notes: Unrestricted Research Grant. A CORR study.
- 7/1/2006-6/30/2007 Inflammatory Cytokine Expression in Degenerative Tendinosis: Quantitative Description and Relation to Whole-Tendon Mechanical Stimuli
FY2007IRGA-26/ORC 0421/ IRB 2005-154
Medstar Research Institute
\$35,000
Role: PI: 10%
- 7/1/2006-6/30/2007 Inflammatory Cytokine Expression in Degenerative Tendinosis: Quantitative Description and Relation to Whole-Tendon Mechanical Stimuli
FY2007IRGA-26/ORC 0421/ IRB 2005-154
Medstar Research Institute

\$15,000

Role: PI:

Departmental Funded Studies:

PREVIOUS

- 9/20/2000 Biomechanical Talonavicular Stability
ORC 9933
Union Memorial Hospital Orthopedic Research
\$7,320
Role: PI: Jonathan Rosenfeld, M.D.; 30%; Notes: Published in the Am Jour of Ortho, 2005.
- 9/3/2003 A Subtalar Implant (arthroereisis) as Adjunct Treatment for Posterior Tibial Tendon Dysfunction: Short-Term Radio-Graphic Results
ORC 0305
Union Memorial Hospital Orthopedic Research
\$1,000
Role: PI: Scott Van Aman, M.D.; 60%; Notes: Presented to the American Orthopaedic Foot and Ankle Society, July 2006.
- 11/19/2003 Osteochondral Ankle Allograft Trans-Plantation: The State of the Art and Early Results of 12 Cases of Bipolar Osteochondral Shell Resurfacing of the Ankle Joint with a Custom Jig
ORC 307
Union Memorial Hospital Orthopedic Research
\$500
Role: PI: Anand Vora, M.D.; 60 %
- 11/19/2003 Pes Planus Deformity: A Cadaveric Model and Analysis of Surgical Correction
ORC 309
Union Memorial Hospital Orthopedic Research
\$5,000
Role: PI: Anad Vora, M.D.; 15%; Notes: Presented to the American Orthopaedic Foot and Ankle Society, July 2004. Winner of the AOFAS Fellow Research Award. Submitted to the Jour of Bone/Joint Surg. Published in the Jour of Bone/Joint Surge in 2006.
- 5/12/2004 Biomechanical Testing of Four Constructs for Tibiotalocalcaneal Fusion
ORC 316
Union Memorial Hospital Orthopedic Research
\$2,000
Role: PI: Patrick O'Neill, M.D.; 15%; Notes: Published in Foot/Ankle Int, 7/07
- 7/1/2004 Biomechanical Testing of Four Constructs for Tibiotalocalcaneal Fusion
ORC 316
Union Memorial Hospital Orthopedic Research
\$2,000
Role: PI: Patrick O'Neill, M.D.; 15%; Notes: Published in Foot/Ankle Int, 7/07.
- 11/17/2004 Correction of Acquired Flatfoot Deformity with Calcaneocuboid Distraction Fusion and First Metatarsal-Cuneiform Fusion: A Biomechanical Study
ORC 408
Union Memorial Hospital Orthopedic Research
\$1100
Role: PI: Kevin Logel, M.D.; 15%; Notes: Submitted to Foot/Ankle Int, 6/06. Published in Foot/Ankle Int, 4/07.
- 11/17/2004 Biomechanical Evaluation of Calcaneal Avulsion Fractures in a Cadaveric Model

- Using Screws With and Without Anchors
 ORC 409
 Union Memorial Hospital Orthopedic Research
 \$3808
 Role: PI: Adam Wilson, M.D.; 15%; Notes: Poster presentation at IFAC, 5/05.
 Submitted to Foot/Ankle Int.
- 05/4/2005 Biomechanical Evaluation of a Circular Wire External Fixation Device Vs. a
 Retrograde Intramedullary Nail for TCC Arthrodesis
 ORC 419
 Union Memorial Hospital Orthopedic Research
 \$2700
 Role: PI: Adam Wilson, M.D.; 15%
- 05/4/2005 New Flatfoot Model
 ORC 420
 Union Memorial Hospital Orthopedic Research
 \$23,734
 Role: PI: Brent Parks, McS; 10%
- 9/14/2005 Evaluation of Sinus Tarsi Volume and Implant Movement with Simulated Weight Bear
 ORC 0504
 Union Memorial Hospital Orthopedic Research
 \$200
 Role: PI: Scott Van Aman, M.D.; 10%; Notes: Presented at the AOFAS, 7/06.
- 9/14/2005 Gene Expression in Degenerative Tendinosis: Quantitative Description of Expression
 mRNA by Microarray Analysis
 ORC 0507
 Union Memorial Hospital Orthopedic Research
 \$4,500
 Role: PI: 10%
- 11/9/2005 Ankle Fusion's Home Run Screw: A Cadaveric Study
 ORC 0509
 Union Memorial Hospital Orthopedic Research
 \$1,250 Role: PI: Johns Keeling, M.D.; 10%; Notes: Published in Foot/Ankle Int, 5/07.
- 11/9/2005 Blade Plate Compared to Locking Plate Fixation for Tibiotalocalcaneal Arthrodesis: A
 Biomechanical Study
 ORC 0513
 Union Memorial Hospital Orthopedic Research
 \$381.25
 Role: PI: Marc Chodos, M.D.; 10%; Notes: Published in Foot/Ankle Intl, 5/07.
- 2/1/2006 Effects of Autologous Mesenchymal Stem Cells on Interpositional Bone Block
 Arthrodesis of the First Metatarsophalangeal Joint
 ORC 0520
 Union Memorial Hospital Orthopedic Research
 Role: PI: Marc Chodos, M.D.; 10%
- 2/1/2006 Cotton Osteotomy: A Comparison of Pressure and Angular Changes and Fixation
 Strength with Allograft or Plate Fixation
 ORC 0515
 Union Memorial Hospital Orthopedic Research
 \$840
 Role: PI: Alan League, M.D.; 10%
- 2/1/2006 Transarticular vs. Extra-Articular Ankle Stabilization: A Biomechanical and Anatomic
 Study

- ORC 0516
 Union Memorial Hospital Orthopedic Research
 \$504
 Role: PI: Alan League, M.D.; 10%
 2/1/2006 Comparisons of Fixation Stability and Angle Correction Capacity of the Modified
 Mau Osteotomy with Original Mau and Ludloff Metatarsal Osteotomies: A
 Biomechanical Study
 ORC 0518
 Union Memorial Hospital Orthopedic Research
 \$2,080
 Role: PI: Su-Young Bae, M.D, Ph.D; 10%
 8/31/2006 Tendon Allograft with Bioabsorbable Inerference Screws and One Suture-Endobutton
 Fixation of Ankle Distal Tibiofibular Syndesmosis Diastasis: A Cadaver Study
 ORC 0609
 Union Memorial Hospital Orthopedic Research
 \$3,500
 Role: PI: Seung Han, M.D.; 10%
 8/31/2006 Proximal Medial Opening Wedge Osteotomy of the First Metatarsal Bone as
 Treatment of Hallux Valgus: Analysis of Metatarsal Head Movement after Proximal
 Metatarsal Opening Wedge Osteotomy Depending on the Orientation of the
 Osteotomy. A 3-D Digitizer Study with Sawbone Models of the First Metatarsal Bone
 and Chevron Osteotomy: A 3-D Digitizer Analysis of Metatarsal Head Movement in
 the Frontal and Transversal Plane Depending on the Orientation of the Osteotomy
 (determined with a guide wire) with Saw bone Models of the First Metatarsal.
 ORC 0610
 Union Memorial Hospital Orthopedic Research
 \$1,540
 Role: PI: Florian Gruber, M.D.; 10%
 11/15/2006 The Effects of Bupivacaine on Cultured Tenocytes
 ORC 0618
 Union Memorial Hospital Orthopedic Research
 \$3,600
 Role: Specimen collection and project supervision; PI: Scherb, M.D.; 10%
 8/2006-10/2006 Shockwave Effect on Cultured Tenocytes (Effect on Inflammatory Cytokines and
 MMPs)
 ORC 0611/0621
 Union Memorial Hospital Orthopedic Research
 \$900
 Role: Specimen collection and project supervision; PI: Florian Gruber, M.D.; 10%
 8/2006-11/2006 Mechanical Response of the Lateral Ankle Ligaments after Modified Brostrom
 Procedure
 ORC 0605
 Union Memorial Hospital Orthopedic Research
 \$2,624
 Role: Design study and supervision of techniques and data; PI: Kevin Kirk, M.D.;
 20%
 11/15/2006 Shockwave Effect on Cultured Tenocytes (Effect on Inflammatory Cytokines and
 MMPs)
 ORC 0619
 Union Memorial Hospital Orthopedic Research
 \$4,000

- 2/7/2007 Role: PI: 60; Notes: On-going study
Effect of BMP-2 on Human Tenocyte - Preliminary Study
ORC 0623
Union Memorial Hospital Orthopedic Research
\$4,050
- 2/7/2007 Role: PI: 10%; Notes: On-going study
Tendon Specific Responses to PDGF
ORC 0625
Union Memorial Hospital Orthopedic Research
\$4,800
Role: PI: 10%

Research Program Building/Leadership

- 2005-present Founder and Director, Orthobiologics Laboratory, Union Memorial Hospital
- 2002-present Co-creator of Program Information Form (PIF), Union Memorial Hospital Foot and Ankle Fellowship for the Accreditation Council for Graduate Medical Education (ACGME) Program Information Form, Two 5-year Accreditation
- 2007-present Co-creator of Program Information Form (PIF), Union Memorial Hospital Orthopedic Residency Foot and Ankle Division for the Accreditation Council for Graduate Medical Education (ACGME) Program Information Form

EDUCATIONAL ACTIVITIES

Educational Publications

Books, Textbooks:

1. Zuckerman JD, **Schon LC**. Hip fractures. In Zuckerman JD, ed. Comprehensive Care of Orthopaedic Injuries in the Elderly. Baltimore, MD: Urban & Schwarzenberg; 1990:23-111.
2. **Schon LC**, Ouzounian TJ. The ankle. In: Jahss MH, (ed). Disorders of the Foot and Ankle. 2nd ed. Philadelphia, PA: WB Saunders; 1991:1417-1460.
3. **Schon LC**, Clanton TO, Baxter DE. Reconstruction for subtalar instability: A review. Foot/Ankle.1991; 11(5):319-325.
4. **Schon LC**. Heel pain. In: Mizel MS, Pfeffer GB, eds. Selected Biography of the Foot and Ankle with Commentary. Pack Ridge, IL: AAOS; 1992:203-215
5. Clanton TO, **Schon LC**. Athletic injuries to the soft tissues of the foot and ankle. In: Mann RA, Coughlin MJ, eds. Surgery of the Foot and Ankle. 6th ed. St. Louis, MI: Mosby- Year Book Inc; 1993:1095-1224.
6. **Schon LC**. Plantar fascia and Baxter's nerve release. In: Myerson M, ed. Current Therapy in Foot and Ankle Surgery. St. Louis, MI: Mosby Year Book Inc; 1993:177-182.
7. **Schon LC**. Tarsal tunnel release. In: Myerson M, ed. Current Therapy in Foot and Ankle Surgery. St. Louis, MI: Mosby Year Book Inc; 1993:173-176.
8. **Schon LC**. Plantar fasciitis/heel pain. In: Pfeffer GB, Frey CC, ed. Current Practice in Foot and Ankle Surgery. New York, NY: McGraw Hill Inc; 1993:243-261.
9. **Schon LC**, Baxter DE. Heel pain syndrome and entrapment neuropathies About the foot and ankle. In: Gould JS, ed. Operative Foot Surgery. Philadelphia, PA: WB Saunders Co; 1994:192-208.
10. Skalley TC, **Schon LC**. Rehabilitation following Arthrodesis in the foot and ankle. In: Sammarco GJ, ed. Rehabilitation of the Foot and Ankle. St. Louis, MI: Mosby- Year Book Inc; 1995:373-387.
11. **Schon LC**, Clanton TO. Chronic leg pain. In: Baxter DE, ed. The Foot and Ankle in Sports. St. Louis, MI: CV Mosby Co; 1995:265-283.
12. **Schon LC**, Miller SD, Weinfeld SB. The ankle and foot. In: O'Young B, Young MA, Steins SA, eds.

- Physical Medicine & Rehabilitation Secrets. Philadelphia, PA: Hanley & Belfus, Inc; 1997:295-301.
13. **Schon LC**, Easley Mark E, Lam PC, Anderson CD. The acquired midtarsus deformity classification system. Interobserver Reliability and Intraobserver Reproducibility. Mt Royal Printing Company; 1998.
 14. Campbell JT, **Schon LC**. Foot and ankle trauma. In: Baratz ME, Watson AD, Imbriglia JE, eds. Orthopaedic Surgery: The Essentials. New York, NY: Thieme; 1999:591-613.
 15. Sammarco VJ, **Schon LC**. Nerve injuries of the lateral leg and ankle. In: Pfeffer GB, ed. Chronic Ankle Pain in the Athlete. Rosemont, IL: AAOS (Monograph); 2000:71-84.
 16. **Schon, LC**. Decision-making for the athlete: The leg, ankle, and foot in sports. In: Myerson MS, ed. Foot and Ankle Disorders. Philadelphia, PA: WB Saunders Co; 2000:1435-1476.
 17. **Schon LC**, Easley ME. Chronic pain. In: Myerson MS, ed. Foot and Ankle Disorders. Philadelphia, PA: WB Saunders Co; 2000:851-881.
 18. **Schon LC**, Anderson CD. Tendon injuries in acute ankle sprains. In: Nyska M, Mann G, eds. The Unstable Ankle. Champaign, IL: Human Kinetics; 2002:121-138.
 19. **Schon LC**, Cohen I, Easley ME. Nerve problems of the foot and ankle. In: Fitzgerald RH, Jr., Kaufer H, Malkani AI, eds. Orthopaedics. 1st ed. St. Louis, MI: CV Mosby; 2002:1681-1698.
 20. **Schon LC**, Myerson MS. Cuneiform-metatarsal arthrodesis for hallux valgus. In: Kitaoka HB, ed. Master Techniques in Orthopaedic Surgery: The Foot and Ankle. 2nd Ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2002:99-117.
 21. Stroud CC, **Schon LC**. The ankle and foot: Anatomy, pathology, and diagnosis. In: O'Young B, Young MA, Stiens SA, eds. Physical Medicine and Rehabilitation Secrets. 2nd ed. Philadelphia, PA: Hanley & Belfus, Inc.; 2002:297-300.
 22. Pinzur MS, Guedes de Souza Pinto MA, **Schon LC**, Smith DG. Controversies in amputation surgery. Instructional Course Lecture. Vol 52. 2003:445-451.
 23. Marks RM, **Schon LC**, Mroczek KJ. The diabetic foot. In: Thordarson DB, ed. Foot and Ankle. Philadelphia, PA: Lippincott Williams & Wilkins; 2004:98-112.
 24. **Schon LC**. Chronic midfoot Charcot rocker-bottom reconstruction. In: Nunley JA, Pfeffer GB, Sanders RW, Trepman E, eds. Advanced Reconstruction: Foot and Ankle. Rosemont, IL: American Association of Orthopaedic Surgeons; 2004: 411-416.
 25. **Schon LC**, Haddad SL, Campbell JT. Examination and differential diagnosis of the foot and ankle for arthroscopic-endoscopic surgery. In: Guhl JF, Parisien JS, Boynton MD, eds. Foot and Ankle Arthroscopy. 3rd ed. New York, NY: Springer-Verlag; 2004:39-62.
 26. **Schon LC**. Midfoot Charcot reconstruction: Chronic rockerbottom reconstruction. In: Nunley JA, Pfeffer GB, Sanders RW, Trepman E, eds. Advanced Reconstruction: Foot and Ankle. Rosemont, IL: American Association of Orthopaedic Surgeons; 2004:411-416.
 27. **Schon LC**. Salvage of failed heel pain surgery. In: Nunley JA, Pfeffer GB, Sanders RW, Trepman E, eds. Advanced Reconstruction: Foot and Ankle, Rosemont, IL: American Association of Orthopaedic Surgeons; 2004:349-352.
 28. Davies P, **Schon LC**. Peripheral nerve stimulation. In: Wallace MS, Staats PS, eds. Pain Medicine and Management: Just the Facts. New York, NY: McGraw-Hill, Health Professions Divisions; 2004:315-317.
 29. **Schon LC**, Herbst SA. Tendon ruptures and lacerations. In: Calhoun JH, Laughlin RT, eds. Fractures of the Foot and Ankle: Diagnosis and Treatment of Injury and Disease. Boca Raton, FL: Taylor & Francis; 2005:319-344.
 30. **Schon LC**, Mann RA. Diseases of the nerves. In: Coughlin MJ, Mann RA, Saltzman CL, eds. Surgery of the Foot and Ankle. 8th ed. Philadelphia, PA: Elsevier; 2007:613-685.
 31. Coughlin MJ, **Schon LC**. Disorders of tendons. In: Coughlin MJ, Mann RA, Saltzman CL, eds. Surgery of the Foot and Ankle. 8th ed. Philadelphia, PA: Mosby; 2007:1149-1277.
 32. **Schon LC**, Logel KJ. Rheumatoid arthritis and inflammatory disorders. In: DiGiovanni CW, Greisberg J, eds. Foot and Ankle: Core Knowledge in Orthopaedics. Philadelphia, PA: Elsevier; 2007:90-103.

33. Baxter D, **Schon LC**. Assessment and treatment of the elite athlete: Helpful hints and pertinent pearls. In: Porter DA, **Schon LC**, eds. *Baxter's The Foot and Ankle in Sports*. 2nd ed. 2008:3-25.
34. **Schon LC**, Gruber F, Pfeiffer GB. Plantar heel pain. In Porter DA, **Schon LC**, eds. *Baxter's The Foot and Ankle in Sports*. 2nd ed. 2008:226-239.
35. Title CI, **Schon LC**. Achilles tendon disorders including tendinosis and tears. In: Porter DA, **Schon LC**, eds. *Baxter's The Foot and Ankle in Sports*. 2nd ed. 2008:147-181.
36. **Schon LC**, Shatby M. What is the best treatment for a Charcot foot and ankle? In: Questions. Philadelphia, PA: Elsevier; 2008:494-499.
37. **Schon LC**, Shatby M. What is the best treatment for a Charcot foot and ankle? In: Wright JG, ed. *Evidence-Based Orthopaedics: The Best Answers to Clinical Questions*. Philadelphia, PA: Elsevier; 2009:494-499.
38. **Schon LC**, Bae S-Y. Charcot neuroarthropathy of the midfoot/hindfoot: Midfoot osteotomy and arthrodesis using internal fixation and external fixation. In: Pfeiffer GB, Hintermann B, Frey C, Easley ME, Sands AK, eds. *Operative Techniques: Foot and Ankle Surgery*. Philadelphia, PA: Saunders; 2010:217-235.
39. Allen PG, **Schon LC**. The ankle and foot. In: Hochberg MC, Silman AJ, Smolen JS, Weinblatt ME, Weisman MH, eds. *Rheumatology*. 5th ed. Mosby; 2010.
40. Nadaud JP, **Schon LC**. Chronic Charcot midfoot reconstruction. In: *Tech of Foot/Ankle Surg*. 2010; 9(3):123-33.
41. Parks JS, **Schon LC**. Adult flatfoot surgery. In: Saxena A, ed. *International Advances in Foot and Ankle Surgery*. New York, NY: Springer; 2011.
42. Carrino J, Machado A, **Schon LC**. Musculoskeletal clinical applications of stem cells: Stem cell labeling for delivery and tracking. Series in: *Medical Physics and Biomedical Engineering*. London; Institute of Physics Publishing; 2011.
43. **Schon LC**, Groth AT. Pes cavus. In: Hurwitz SR, Parekh SG, eds. *Musculoskeletal Examination of the Foot and Ankle: Making the Complex Simple*. Thorofare, NJ; 2012: 124-144.
44. Machado AJ, Carrino JA, **Schon LC**. Musculoskeletal clinical applications of stem cell. In: Kraitchman DL, Wu JC, eds. *Stem Cell Labeling for Delivery and Tracking Using Non-invasive Imaging*. CRC Press Taylor & Francis Group, LLC; 2012:405-424.
45. Oji D, **Schon LC**. The diabetic foot orthopaedic surgery essentials. In: Thordarson, ed. *Foot and Ankle*. Philadelphia, PA; Lippincott Williams & Wilkins; 2012.
46. Coughlin MJ, **Schon LC**. Disorders of the tendons. In: Coughlin MJ, Saltzman CL, Anderson RB, editors. *Mann's Surgery of the Foot and Ankle*. 9th ed. Philadelphia: Elsevier; 2013. p. 1188-291.
47. **Schon LC**, Adams SB, Jr. Lapidus procedure for hallux valgus deformity. In: Kitaoka HB, editor. *Master Techniques in Orthopaedic Surgery: The Foot and Ankle*. 3rd ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2013. p. 103-18.
48. **Schon LC**, Reed MA. Disorders of the nerves. In: Coughlin MJ, Saltzman CL, Anderson RB, editors. *Mann's Surgery of the Foot and Ankle*. 9th ed. Philadelphia: Elsevier; 2013. p. 621-84.
49. Myers SH, **Schon LC**. The Zimmer trabecular metal total ankle system: features and techniques. In: DeOrto JK, Parekh SG, editors. *Total Ankle Replacement: An Operative Manual*. Philadelphia: Lippincott Williams & Wilkins; 2014.
50. Stein BE, **Schon LC**. Posterior tibial tendon dysfunction in the adult: current concepts. In: Della CJ, Valle MD, editors. *Instructional Course Lecture, Volume 64*. American Academy of Orthopaedic Surgeons; 2015.
51. Yan AY, Adams SB, **Schon LC**. Minimally invasive operative treatment of displaced intra-articular calcaneal fractures via the sinus tarsi approach. In: Bluman EM, Chiodo CP (eds). *Minimally Invasive Surgery of the Foot and Ankle*. Philadelphia, PA: Lippincott Williams & Wilkins; In Press
52. Giza E, **Schon LC**. Allograft cartilage transplantation for osteochondral lesions of the talus in pediatric patients. In: Alexander I, Bluman E, Greisberg J, editors. *Advanced Reconstruction: Foot and Ankle 2*. Am Acad Orth Surg / Am Orth Foot Ankle Soc publication; 2015

53. Lee CA, Tan EW, Giza E, **Schon LC**. Particulate juvenile cartilage allograft transplantation for osteochondral lesions of the talus. In: Alexander IJ, Bluman EM, Greisberg JK, editors. *Advanced Reconstruction: Foot and Ankle 2*. 2 ed. Rosemont, IL: American Academy of Orthopaedic Surgeons; 2015. p. 315-9.
54. **Schon LC**, Herbst SA. The trabecular metal ankle prosthesis: why we designed it this way. In: Haddad SL, editor. *Total Ankle Arthroplasty*. Rosemont, IL: American Academy of Orthopaedic Surgeons; 2015. p. 181-8.
55. Myers SH, **Schon LC**. Brisement and related procedures. In: Bluman E, Chiodo CP, editors. *Minimally Invasive Foot and Ankle Surgery*. Philadelphia: Lippincott Williams & Wilkins; 2016. p. 1-4.
56. **Schon LC**, Adams SB, Jr., Yan A. Minimally invasive operative treatment of displaced intra-articular calcaneal fractures via the sinus tarsi approach. *Minimally Invasive Surgery of the Foot and Ankle*. Philadelphia: Lippincott Williams & Wilkins; 2016. p. 194-200.
57. Tan EW, **Schon LC**. Plate fixation techniques for midfoot and forefoot Charcot arthropathy. In: Herscovici D, Jr., editor. *The Surgical Management of the Diabetic Foot and Ankle*. New York: Springer; 2016. p. 117-32.
58. Talusan PG, Schon LC. Open technique for calcified insertional Achilles tendinopathy. In: Thermann H, Becher C, Carmont MR, Karlsson J, Maffulli N, Calder J, et al., editors. *The Achilles Tendon: An Atlas of Surgical Procedures*. Berlin: Springer-Verlag; 2017. p. 69-72.

Non-Peer Reviewed Scientific Articles

1. **Schon LC**, Baxter DE, Clayton TO. Chronic exercise induced leg pain in active people: More than just shin splints. *Physicians in Sports Medicine*. 1992; 100.
2. **Schon LC**. Foot and ankle problems in dancers. *Maryland Medical Journal*. 1993; 42(3):267-269.
3. **Schon LC**. Preface for March 1999 issue. *Foot Ankle Clin*. 1999;4.
4. **Schon LC**. Technique for application of the standard ACE Fischer foot and ankle frame. DePuy Ace Medical Company, 1999.
5. **Schon LC**. Technique for application of tibiocalcaneal ACE Fischer external fixator using the U-ring. DePuy Ace Medical Company, 1999.
6. **Schon LC**. Technique for application of the ACE Fisher fixator for complex reconstruction of the foot: The foot fixator. DePuy Ace Medical Company, 1999.
7. Raikin SM, **Schon LC**. Nerve injuries in athletes. *Foot and Ankle: Sports Medicine Update* 2001.
8. Adams SB, Yao JQ, **Schon LC**. Particulated juvenile articular cartilage allograft transplantation for osteochondral lesions of the talus. *Tech of Foot/Ankle Surg*, 2011.
9. Jia X, Peters PG, **Schon LC**. The use of platelet-rich plasma in the management of foot and ankle conditions. *Op Tech in Sports Med*. 2011; 19:177-184.

Other Media:

1. FDL tendon transfer with calcaneal slide, opening wedge and cotton osteotomies. In: Philbin T, ed. *Surgical Techniques in Orthopaedics: Achilles Tendon Disorders [DVD-Video]*.
2. Chevron osteotomy. In: Campbell J, ed. *Surgical Techniques in Orthopaedics: Hallux Valgus [DVD-Video]*.
3. The application of a ring fixator onto the foot for treatment of an infected Charcot rocker-bottom foot [video].
4. The application of a ring fixator onto the ankle for treatment of an infected Charcot ankle [video]
5. Recurrent interdigital neuroma release. In: *Comprehensive Foot and Ankle Course [video]*. 1996-1999.
6. Tarsal tunnel release [video]. Learnware; 1996.

7. Calcaneus fracture: Open reduction internal fixation. In: Comprehensive Foot and Ankle Course [video]. 1996-1999.
8. Physical exam of the lower extremity [video]. Learnware; 1997.
9. AIRLIMB: The next step [video]. Learnware; 1999.
10. New technique for PNS [video]. Centrimed; 2000.
11. Reconstructive surgery aids for prosthetics patients [interview]. O&P Business News 38-54; 09/00.
12. Achilles tendon reconstruction for insertional tendinopathy [video]. Learnware; 2001.
13. Subtalar arthrodesis after talus fracture video]. Centrimed; 2000.
14. Revision hindfoot fusion [video]. Centrimed; 2000.
15. Techniques in below knee amputation [video]. Reno, NV: Hanger Educational Fair; 2004.
16. Proximal crescentic osteotomy for hallux valgus [video].
17. Ludloff osteotomy for hallux valgus [video].
18. Distal closing wedge osteotomy for halux valgus [video]. 2006.
19. Akin osteotomy for hallux valgus [video]. 2006.
20. Calcaneal fracture open reduction internal fixation subtalar approach [video].
21. Faro FD, **Schon LC**. Hallux valgus. Orthopaedia – Online Collaborative Orthopaedic Knowledgebase, 2011. (Created 11/09/09. Last modified 01/26/11).
22. Title CI, **Schon LC**. Morton's neuroma. American Academy of Orthopedic Surgeons. Orthopaedic Knowledge Online, 2006 September 26 [cited 2007 Feb 1].
23. Metatarsal osteotomies for metatarsalgia [webinar]. AOFAS; November, 2012.
24. Stein B, **Schon LC** 2014. Adult flat foot reconstruction surgical technique, Instructional Course Lectures Volume 64 Video Supplement.

Teaching

Classroom Instruction:

- | | |
|-----------|--|
| 2009-2014 | Lectures for Biomedical Engineering Students and Design Class Students at Johns Hopkins University undergraduate campus <ol style="list-style-type: none"> a. The Lower Extremity Anatomy and Biomechanics class b. Biomechanics and inventions Design class |
| 2009-2013 | Lectures for Anatomy and Kinesiology Course at Goucher College undergraduate campus <ol style="list-style-type: none"> a. Lower Extremity Musculoskeletal Perspective on Dance |
| 2009-2013 | Lectures for Didactic Dance Program at Towson University undergraduate campus <ol style="list-style-type: none"> a. Lower Extremity Musculoskeletal Perspective on Dance |

CME Instruction: *Unless otherwise specified, role is lecturer

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|------------|--|
| 11/09/1988 | Anatomic reconstruction of the lateral ligaments of the ankle using plantaris tendon: The modified Kelikian procedure. AAOS Comprehensive Foot and Ankle Course; Chicago, IL |
| 2/11/1990 | Neuropathies of the foot and ankle. AAOS Symposium on Injuries of the Foot and Ankle in Athletes; New Orleans, LA |
| 4/1990 | Nerve entrapment about the foot and ankle in athletes. AAOS Course: Sports Injuries of the Foot and Ankle; Chicago, IL |
| 4/1990 | Bunions in athletes. AAOS Course: Sports Injuries of the Foot and Ankle; Chicago, IL |
| 3/10/1991 | Heel pain syndrome: Electrodiagnostic studies and double crush. HUMANA Award Paper. AAOS Annual Meeting; Anaheim, CA |
| 07/1991 | The role of electrodiagnostic studies in evaluating heel pain. Symposium on Nerve Problems, American Orthopaedic Foot and Ankle Society; Boston, MA |
| 2/1992 | The treatment of claw toes. Foot and Ankle Symposium for Orthopedic Nurses, AAOS; Washington, DC |

- 5/15/1992 Achilles tendinitis and plantar fasciitis. Sports Symposium, Union Memorial Hospital; Baltimore, MD
- 5/15/1993 Plantar fasciitis. Current Concepts in Orthopaedics, Meeting of the Southern Orthopaedic Association; Baltimore, MD
- 11/13/1993 Arthritis of the foot and ankle. Common Problems of the Legs and Feet: Advances in Care, Union Memorial Hospital; Baltimore, MD
- 7/1993 Tibial nerve anatomic variations. Summer Meeting, American Orthopaedic Foot and Ankle Society; Ashville, NC
- 07/1993 Revision tarsal tunnel surgery. Summer Meeting, American Orthopaedic Foot and Ankle Society; Ashville, NC
- 1/27/1994 The rheumatoid foot. Maryland Society for the Rheumatic Diseases Meeting; Baltimore, MD
- 2/27/1994 Subtalar instability. Winter Meeting, American Orthopaedic Foot and Ankle Society; New Orleans, LA
- 5/6/1994 Anatomy and biomechanics of the foot and ankle. Heel pain and plantar fasciitis. Stress fractures and fifth metatarsal fractures. Spring Sports Symposium, Union Memorial Hospital; Baltimore, MD
- 5/20/1994 Advances in rheumatoid arthritis surgery. Fourth Annual Conference, Southern Medical Association; Baltimore, MD
- 7/3/1994 Tendon transfer combined with calcaneal osteotomy for the treatment of posterior tibial tendon insufficiency: A radiological investigation. Summer Meeting of the American Orthopaedic Foot and Ankle Society; Cour d'Alene, ID
- 2/22/1995 Calcaneal bone graft: A new harvesting technique. Annual Specialty Day Meeting of the American Orthopaedic Foot and Ankle Society; Orlando, FL
- 4/1/1995 Profile of the collegiate dancer: Results of the dance screening evaluation. A conference presented by the Committee on Medicine and the Performing Arts of the Medical & Chirurgical Faculty of Maryland; Baltimore, MD
- 5/4-7/1995 Surgical techniques: Tarsal tunnel, plantar fasciitis recurrent Morton's neuroma. Surgical Skills Course: American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center Course; Chicago, IL
- 6/12-15/1995 Arthrodesis of midfoot neuropathic deformity using a plantar plate. Annual Meeting, The Joint American and British/European Foot and Ankle Society (AOFAS/EFAS); Dublin, Ireland
- 11/1995 Fusion of the hallux MTP joint. Comprehensive Foot & Ankle Course, AAOS; San Francisco, CA
- 1996 Plantar fascia release and FBLPN release (video). Foot & Ankle Surgical Hands-On Course; 1996 Tarsal tunnel release (video). Summer Institute; San Diego, CA
- 2/23-25/1996 Revision arthrodesis for the salvage of pseudoarthrosis of ankle fusions. AOFAS Scientific Program, Specialty Day at AAOS Annual Meeting; Atlanta, GA
- 1996-1998 Recurrent interdigital neuroma release (video). Comprehensive Foot & Ankle Course; 1996-1999 Calcaneus fracture: Open reduction internal fixation (video). Comprehensive Foot & Ankle Course;
- 6/27-30/1996 Anatomic analysis of tibiocalcaneal intramedullary nailing. AOFAS Summer Meeting; Hilton Head, SC
- 6/27-30/1996 Revision surgery for failed triple arthrodesis. Roger Mann Award Paper. AOFAS Summer Meeting; Hilton Head, SC
- 9/10-13/1996 Tarsal tunnel release, plantar fascia release, and revision interdigital neuroma. AAOS Summer Institute; San Diego, CA
- 10/31/1996 Chevron procedure: Basic technique and results. AAOS 9th Annual Comprehensive Foot and Ankle Course; Washington, DC
- 10/31/1996 Examination of the foot and ankle. AAOS 9th Annual Comprehensive Foot and Ankle Course Washington, DC

- 11/01/1996 Calcaneus fracture. AAOS 9th Annual Comprehensive Foot and Ankle Course; Washington, DC
- 11/02/1997 Tarsal tunnel and other nerve entrapment syndromes. AAOS 9th Comprehensive Foot and Ankle Course; Washington, DC
- 2/13/1997 A new neuroarthropathic midfoot fusion technique-biomechanical analysis and rationale (poster). AAOS 1997 Annual Meeting; San Francisco, CA
- 2/13/1997 A new neuroarthropathic midfoot fusion technique-biomechanical analysis and rationale. AAOS 1997 Annual Meeting; San Francisco, CA
- 2/13/1997 Radiograph classification of rocker-bottom feet. AAOS 1997 Annual Meeting; San Francisco, CA
- 2/14/1997 Foot and ankle fracture management in the elderly. Instructional course lecture on geriatric trauma. AAOS 1997 Annual Meeting; San Francisco, CA
- 5/1997 Physical examination of the lower extremity (video). Comprehensive Foot & Ankle Course;
- 5/1997 How to juggle: A practical method. Maryland Orthopaedic Association 1997 Annual Scientific Meeting; Baltimore, MD
- 5/1997 Mechanical comparison of biplanar proximal closing wedge osteotomy with plantar plate fixation vs. crescentic osteotomy with screw fixation for the correction of metatarsus primus varus. Maryland Orthopaedic Association 1997 Annual Scientific Meeting; Baltimore, MD
- 7/17/1997 Histopathologic findings in autogenous saphenous vein graft wrapping for recurrent tarsal tunnel syndrome-a case report (poster). AOFAS 13th Annual Summer Meeting; Monterey, CA
- 7/17/1997 Assessment and management of the rocker-bottom foot. The Roger Mann Award Paper AOFAS 13th Annual Summer Meeting; Monterey, CA
- 7/17/1997 Biplanar proximal closing wedge osteotomy with plantar plate fixation in correction of metatarsus primus varus. AOFAS 13th Annual Summer Meeting, Monterey, CA
- 9/3/1997 Treatment decision-making for hallux valgus: Osteotomy, arthroplasty, or arthrodesis. AAOS Summer Institute Course; Washington, DC
- 11/06/1997 Chevron procedure and Akin basic technique and results. AAOS 10th Annual Comprehensive Foot and Ankle Course; Chicago, IL
- 11/8/1997 Treatment of diabetic neuropathic arthropathy. AAOS 10th Annual Comprehensive Foot and Ankle Course; Chicago, IL
- 11/8/1997 Tarsal tunnel and other nerve entrapment syndromes. AAOS 10th Annual Comprehensive Foot and Ankle Course; Chicago, IL
- 11/14/1997 Transpedal multiplanar wedge osteotomies and fusion for complex midfoot and hindfoot deformities. Combined Meeting of the AOFAS and the Japanese Society for Surgery of the Foot; Waikoloa, Hawaii
- 11/15/1997 The clinical and radiographic outcome of revision surgery for failed triple arthrodesis. Combined Meeting of the AOFAS and the Japanese Society for Surgery of the Foot; Waikoloa, Hawaii; 11/15/97)
- 03/20/1998 Chronic Achilles tendon ruptures. Instructive Course Lecture AAOS Annual Meeting; New Orleans, LA
- 3/21/1998 Bone block fusion for 1st MTP arthritis. AAOS Annual Meeting Specialty Day; New Orleans, LA
- 6/24-26/1998 Charcot neuroarthropathy of the foot and ankle. AOFAS Summer Meeting; Boston, MA
- 6/24-28/1998 Clinical outcome after primary triple arthrodesis. AOFAS Summer Meeting; Boston, MA
- 6/24-28/1998 Peripheral nerve vein wrapping for intractable lower extremity pain. AOFAS Summer Meeting; Boston, MA
- 10/29/1998 Chevron, Akin and Keller procedures for hallux valgus. AAOS 11th Annual Comprehensive Foot & Ankle Course; San Francisco, CA
- 10/29/1998 Tarsal tunnel and other nerve syndromes. AAOS 11th Annual Comprehensive Foot & Ankle Course; San Francisco, CA

- 10/29/1998 Calcaneal fractures: Surgical technique. AAOS 11th Annual Comprehensive Foot and Ankle Course; San Francisco, CA
- 10/29/1998 Posterior tibial dysfunction. AAOS 11th Annual Comprehensive Foot & Ankle Course; San Francisco, CA
- 10/29/1998 Achilles tendinitis. AAOS 11th Annual Comprehensive Foot & Ankle Course; San Francisco, CA
- 10/29/1998 Treatment of diabetic ulcers and infections. AAOS 11th Annual Comprehensive Foot & Ankle Course; San Francisco, CA
- 2/4/1999 Treatment of chronic Achilles tendon ruptures. Instructional course lecture, The 66th Annual AAOS Meeting; Anaheim-Orange County, CA
- 2/5/1999 Isolated subtalar arthrodesis in adults. The 66th Annual AAOS Meeting; Anaheim-Orange County, CA
- 2/5/1999 Subtalar bone block arthrodesis. The 66th Annual AAOS Meeting; Anaheim-Orange County, CA
- 2/5/1999 The use of IPOP & EPOPs: The development of the Airlimb. Dinner Meeting Lecture, The 66th Annual AAOS Meeting; Anaheim-Orange County, CA
- 2/5/1999 Clinical outcome after primary triple arthrodesis. The 66th Annual AAOS Meeting; Anaheim-Orange County, CA
- 2/6/1999 The preliminary results of peripheral nerve stimulation. Evening presentation sponsored by Medtronic, The 66th Annual AAOS Meeting; Anaheim-Orange County, CA
- 2/7/1999 Isolated subtalar arthrodesis in adults. AOFAS Specialty Day; Anaheim-Orange County, CA
- 2/8/1999 Peripheral nerve stimulation (PNS) of chronic lower extremity neuralgia (video). The 66th Annual AAOS Meeting; Anaheim-Orange County, CA
- 7/9/1999 Chronic foot pain surgical management. Chronic Pain Symposium, AOFAS Summer Meeting; San Juan, Puerto Rico
- 7/11/1999 Surgical management of chronic lower extremity neuropathic pain. Retrospective Study of 147 cases. AOFAS Summer Meeting; San Juan, Puerto Rico
- 11/4-6/1999 Treatment of ulcers and infections. Comprehensive Foot & Ankle Course: Current Concepts and Practical Solutions, American Academy of Orthopaedic Surgeons; Tysons Corner, VA
- 11/4-6/1999 Treatment of nerve dysfunction. Comprehensive Foot & Ankle Course: Current Concepts and Practical Solutions, American Academy of Orthopaedic Surgeons; Tysons Corner, VA
- 11/4-6/1999 Treatment of Achilles tendinitis. Comprehensive Foot & Ankle Course: Current Concepts and Practical Solutions, American Academy of Orthopaedic Surgeons; Tysons Corner, VA
- 11/4-6/1999 Calcaneal fracture ORIF (a new surgical video). Comprehensive Foot & Ankle Course: Current Concepts and Practical Solutions. American Academy of Orthopaedic Surgeons; Tysons Corner, VA
- 11/4-6/1999 Treatment of adult acquired flat foot. Comprehensive Foot & Ankle Course: Current Concepts and Practical Solutions, American Academy of Orthopaedic Surgeons; Tysons Corner, VA
- 3/15-18/2000 Complex osteotomies and arthrodesis of the hindfoot and ankle. Instructional course lecture AAOS 67th Annual Meeting; Orlando, FL
- 3/18/2000 Arthrodesis of the fourth and fifth tarsometatarsal joints of the midfoot. AAOS 67th Annual Meeting; Orlando, FL
- 3/18/2000 The pros and cons of early prosthetic management for transtibial amputees. Symposium AOPA meeting; San Diego, CA
- 4/8/2000 A new fixation method for fibular fractures in elderly patients. The MOA 2000 Scientific Program (2nd Place MOA Award for Best Paper); Baltimore, MD
- 7/13-15/2000 A prospective analysis for peripheral nerve stimulation for intractable lower extremity nerve pain. American Orthopaedic Foot and Ankle Society Meeting; Vail, CO
- 7/13-15/2000 Update on plantar fasciitis. American Orthopaedic Foot and Ankle Society Meeting; Vail, CO
- 9/9/2000 Charcot foot deformities: Midfoot reconstruction. 10th Annual Baltimore Limb Deformity Course, Kernan Hospital; Baltimore, MD

- 3/3/2001 Intramedullary versus blade plate fixation for tibiocalcaneal arthrodesis: A biomechanical investigation. AAOS 68th Annual Meeting; San Francisco, CA
- 3/3/2001 Evaluation of a prefabricated pneumatic adjustable postoperative prosthesis and a rigid total contact prosthetic: A biomechanical assessment. AAOS 68th Annual Meeting; San Francisco, CA
- 3/3/2001 A prospective clinical study of transtibial amputees using a prefabricated adjustable postoperative prosthesis and early controlled ambulation. AAOS 68th Annual Meeting; San Francisco, CA
- 3/3/2001 Up close and personal: Common foot and ankle problems. Moderator and speaker, 68th Annual AAOS Meeting; San Francisco, CA
- 3/3/2001 Osteotomies and arthrodesis of the hindfoot and ankle. Instructional course lecture, 68th Annual AAOS Meeting; San Francisco, CA
- 3/3/2001 Chronic Achilles tendon reconstruction. Instructional course lecture, 68th Annual AAOS Meeting; San Francisco, CA
- 5/4/2001 Subluxation/dislocation of the MTP: MTP Resection (DuVries) vs. metatarsal osteotomy LODMO (Weil) (videos). AAOS Orthopaedic Learning Center Course; Rosemont, IL
- 5/4/2001 Midfoot salvage for Charcot (video). AAOS Orthopaedic Learning Center Course; Rosemont, IL
- 5/4/2001 Subluxation/dislocation of the MTP: Resection (DuVries) vs. LODMO (Weil). AAOS Orthopaedic Learning Center; Rosemont, IL
- 5/4/2001 Midfoot salvage for Charcot. AAOS Orthopaedic Learning Center; Rosemont, IL
- 7/19/2001 The surgical approach to the geriatric ankle. Symposium on the Aging Foot, 17th Annual AOFAS Summer Meeting; San Diego, CA
- 7/19/2001 Extensor digitorum brevis muscle pedicle bone graft. 17th Annual AOFAS Summer Meeting; San Diego, CA
- 11/7/2001 Surgery for chronic Achilles tendon injuries: Two techniques (video). AAOS and AOFAS, Comprehensive Foot and Ankle: Current Concepts and Practical Solutions; Marco Island, FL
- 11/9/2001 Evaluation and treatment of tarsal tunnel syndrome (video). American Academy of Orthopaedic Surgeons and the American Orthopaedic Foot and Ankle Society, Comprehensive Foot and Ankle: Current Concepts and Practical Solutions; Marco Island, FL
- 11/09/2001 Pilon, calcaneal, talar, Lisfranc injuries. American Academy of Orthopaedic Surgeons and the American Orthopaedic Foot and Ankle Society, Comprehensive Foot and Ankle: Current Concepts and Practical Solutions; Marco Island, FL
- 11/10/2001 Tarsal tunnel. American Academy of Orthopaedic Surgeons and the American Orthopaedic Foot and Ankle Society, Comprehensive Foot and Ankle: Current Concepts and Practical Solutions; Marco Island, FL
- 11/10/2001 Ulcers and amputations. American Academy of Orthopaedic Surgeons and the American Orthopaedic Foot and Ankle Society, Comprehensive Foot and Ankle: Current Concepts and Practical Solutions; Marco Island, FL
- 11/10/2001 Diabetic foot. American Academy of Orthopaedic Surgeons and the American Orthopaedic Foot and Ankle Society. Comprehensive Foot and Ankle: Current Concepts and Practical Solutions; Marco Island, FL
- 11/10/2001 Hallux valgus correction with proximal osteotomies: Techniques, results (video). American Academy of Orthopaedic Surgeons and the American Orthopaedic Foot and Ankle Society. Comprehensive Foot and Ankle: Current Concepts and Practical Solutions; Marco Island, FL
- 2/13/2002 Controversies in lower extremity amputation. Instructional course lecture, AAOS 69th Annual Meeting; Dallas, TX
- 2/14/2002 A critical review of the Ludloff osteotomy for correction of adult hallux valgus. American Academy of Orthopaedic Surgeons, 69th Annual Meeting, Dallas, TX
- 2/16/2002 A critical review of the Ludloff osteotomy for correction of adult hallux valgus. American Academy of Orthopaedic Surgeons, 69th Annual Meeting, Dallas, TX

- 2/17/2002 Osteotomies for primary and revision foot and ankle alignment disorders. Instructional course lecture, AAOS 69th Annual Meeting; Dallas, TX
- 3/21/2002 The turn down procedure for Achilles tendinitis. American Academy of Orthopaedic Surgeons OLC Course; Rosemont, IL
- 3/21/2002 Application of a ring external fixation of the foot and ankle. American Academy of Orthopaedic Surgeons OLC Course, Rosemont, IL
- 3/21/2002 The Ludloff Osteotomy (video). American Academy of Orthopaedic Surgeons OLC Course; Rosemont, IL
- 3/21/2002 The Lapidus procedure for severe hallux valgus correction (video). American Academy of Orthopaedic Surgeons OLC Course; Rosemont, IL
- 3/22/2002 Severe hallux valgus treatment with the Lapidus procedure. American Academy of Orthopaedic Surgeons OLC Course; Rosemont, IL
- 3/22/2002 Application of Tibiocalcaneal External Fixator. Videotaped surgical demonstration, American Academy of Orthopaedic Surgeons OLC Course; Rosemont, IL
- 3/22/2002 Turndown procedure for chronic Achilles tendon rupture. Videotaped surgical demonstration, American Academy of Orthopaedic Surgeons OLC Course; Rosemont, IL
- 7/12/2002 Midfoot and hindfoot Charcot deformities: The role of fusion. Diabetic Symposium, AOFAS 18th Annual Summer Meeting; Traverse City, MI
- 7/12/2002 CRPS: Early, effective triage. American Orthopaedic Foot and Ankle Society 2002 Summer Meeting; Traverse City, MI
- 7/13/2002 Celebrating Our Own – Mondays with Mel Jahss, MD. AOFAS 18th Annual Summer Meeting; Traverse City, MI
- 7/13/2002 Preliminary results with a pre-fabricated immediate postoperative prosthetic limb system for lower extremity amputees. AOFAS 18th Annual Summer Meeting; Traverse City, MI
- 7/13/2002 Outcome following transtibial amputation modified with a distal tibio-fibular synostosis. AOFAS 18th Annual Summer Meeting; Traverse City, MI
- 12/6/2002 Diabetes: Management of infections and amputations (no Charcot). Foot and Ankle: Current Concepts and Practical Solutions, AAOS; Washington, DC
- 12/6/2002 Evaluation and treatment alternatives of tarsal tunnel syndrome (video). Foot and Ankle: Current Concepts and Practical Solutions, American Academy Orthopaedic Surgeons; Washington, DC
- 2/7/2003 Advances in prosthetics (scientific exhibit). American Academy of Orthopaedic Surgeons, 70th Annual Meeting; New Orleans, LA
- 2/7/2003 Controversies In lower extremity amputation. Instructional course lecture, AAOS 70th Annual Meeting; New Orleans, LA
- 2/7/2003 Osteotomies for primary and revision foot and ankle alignment disorders. Instructional course lecture, AAOS 70th Annual Meeting; New Orleans, LA
- 2/7/2003 The diabetic foot. Instructional course lecture, AAOS 70th Annual Meeting; New Orleans, LA
- 2/7/2003 Treatment of Charcot foot and ankle. Instructional course lecture, AAOS 70th Annual Meeting; New Orleans, LA
- 2/7/2003 Osteotomies of the midfoot and hindfoot. Instructional course lecture, AAOS 70th Annual Meeting; New Orleans, LA
- 2/7/2003 Advances in postoperative management for transtibial amputations. Instructional course lecture, AAOS 70th Annual Meeting; New Orleans, LA
- 6/27/2003 The effect of different geometric configurations of the Weil osteotomy on plantar pressure in an in vitro cadaver model. AOFAS 19th Annual Summer Meeting; Hilton Head, SC
- 6/27/2003 Identification of the spectrum of surgical treatments for idiopathic osteoarthritis of the tarsometatarsal (TMT) joints and the clinical outcomes. AOFAS 19th Annual Summer Meeting; Hilton Head, SC
- 6/27/2003 The preliminary results of an internet survey determining the commonly used ankle scores. AOFAS 19th Annual Summer Meeting; Hilton Head, SC

- 10/4/2003 A retrospective analysis of using implantable DC bone stimulators in high risk and revision foot and ankle surgery. 58th Annual Meeting of the Canadian Orthopaedic Association; Winnipeg, MB
- 10/4/2003 The preliminary results of an Internet survey determining the commonly used ankle scores by AOFAS members. 58th Annual Meeting of the Canadian Orthopaedic Association; Winnipeg, MB
- 10/4/2003 The effect of different geometric configurations of the Weil osteotomy on plantar pressure in an in vitro cadaver model. 58th Annual Meeting of the Canadian Orthopaedic Association; Winnipeg, MB
- 10/10/2003 Lesser ray problems. Foot and Ankle: Trauma, Reconstruction and Sports-Controversies in Treatment; San Francisco, CA
- 10/10/2003 Acute sports trauma. Foot and Ankle: Trauma, Reconstruction and Sports-Controversies in Treatment; San Francisco, CA
- 10/11/2003 Charcot problems. Foot and Ankle: Trauma, Reconstruction and Sports-Controversies in Treatment; San Francisco, CA
- 10/11/2003 Flexible deformities. Foot and Ankle: Trauma, Reconstruction and Sports-Controversies in Treatment; San Francisco, CA
- 3/10/2004 Controversies in lower extremity amputation. AAOS 71st Annual Meeting; San Francisco, CA
- 3/11/2004 Update on tendon injuries of the foot and ankle. AAOS 71st Annual Meeting; San Francisco, CA
- 3/13/2004 The effect of first metatarsal shortening and dorsiflexion osteotomies on the forefoot plantar pressure in a cadaveric model. AAOS 71st Annual Meeting, Specialty Day Presentation; San Francisco, CA
- 4/15/2004 Surgical treatment of diabetic foot and ankle disorders. Update on Diabetes XXVII Seminar, Union Memorial Hospital; Baltimore, MD
- 4/23/2004 Salvage of the failed tarsal tunnel release (is re-operation indicated, how to prevent failures). Advanced Foot & Ankle Course; Baltimore, MD
- 4/23/2004 Management of the Charcot deformity. Advanced Foot & Ankle Course; Baltimore, MD
- 4/23/2004 Advances in lower extremity amputation. Advanced Foot & Ankle Course; Baltimore, MD
- 4/24/2004 Emerging “joint sparing” techniques for the treatment of ankle arthritis in the young patient. Advanced Foot & Ankle Course; Baltimore, MD
- 6/19/2004 Differential practice of treating ankle arthritis in a general and specialty orthopaedic society. 2nd Annual Canadian Orthopaedic Foot and Ankle Society Specialty Day; Calgary, AB
- 7/29-31/2004 Cytokine induced osteoclastic bone resorption in Charcot arthropathy: An immunohistochemical study. 20th Annual AOFAS Summer Meeting; Seattle WA
- 7/29-31/2004 The effect of tibio-talar joint Arthrodesis on the adjacent tarsal joint pressure (talo-navicular, subtalar, calcaneo-cuboid joints) in a cadaveric model. 20th Annual AOFAS Summer Meeting; Seattle, WA
- 7/29-31/2004 Spectrum of flexible adult flatfoot deformity: Correction with medializing calcaneal osteotomy and flexor digitorum longus transfer with subtalar arthroereisis. 20th Annual AOFAS Summer Meeting; Seattle, WA
- 7/29-31/2004 Changes in forefoot loading after lateral column lengthening: A cadaveric study comparing the Evans and the calcaneocuboid fusion techniques. 20th Annual AOFAS Summer Meeting; Seattle, WA
- 7/29-31/2004 Flexible adult flatfoot deformity: Mild and severe deformity experimental model. 20th Annual AOFAS Summer Meeting; Seattle, WA
- 7/29-31/2004 The peroneal groove deepening procedure: A biomechanical study of pressure reduction. 20th Annual AOFAS Summer Meeting (selected best poster from COMSS); Seattle, WA
- 9/4/2004 Neuropathic nonunions: Internal fixation. Nonunions: Advances and Controversies Pre-Course Symposium, Paley Limb Lengthening Course; Baltimore, MD

- 11/12/2004 Dance injuries: Prevention, diagnosis and management with patient demonstrations. The Performing Arts Medicine Committee of MedChi, the Maryland State Medical Society; Baltimore, MD
- 11/12/2004 The developing foot and ankle in dancers. Med Chi Annual Performance Arts and Medicine Meeting; Baltimore, MD
- 2/23-26/2005 Radiographic and pedobarographic evaluation of Evans lateral column lengthening and medial cuneiform osteotomy: A biomechanical study. 35th AOFAS Winter Meeting; Washington, DC
- 2/23-26/2005 Why did my bunion correction fail, and how do I fix it? Co-moderator, 35th AOFAS Winter Meeting; Washington, DC
- 2/23-26/2005 Biomechanical testing of four constructs for tibiototalcaneal fusion. 35th AOFAS Winter Meeting; Washington, DC
- 2/23-26/2005 Osteochondral ankle allograft transplantation: The state of the art of early results of 12 cases of bipolar osteochondral shell resurfacing of the ankle joint with a custom jig. AAOS 72nd Annual Winter Meeting; Washington, DC
- 2/23-26/2005 The peroneal groove deepening procedure: A biomechanical study of pressure reduction. (Poster). AAOS 72nd Annual Winter Meeting; Washington, DC
- 2/23-26/2005 Flexible flatfoot deformity: Mild and severe deformity experimental model (Poster). AAOS 72nd Annual Winter Meeting; Washington, DC
- 10/6/2005 Open reduction and internal fixation. Symposium on Foot and Ankle Charcot arthropathy: Treatment dilemmas, 36th Annual Meeting, Eastern Orthopaedic Association; Cambridge, MD
- 2/3/2006 Distal osteotomies/Akin lecture and video. Bunions and lesser toes. AAOS Advanced Techniques in Foot and Ankle Surgery, OLC; Rosemont, IL
- 2/3/2006 Plantar fasciitis/Tarsal tunnel release lecture and video. Nerves. AAOS Advanced Techniques in Foot and Ankle Surgery, OLC; Rosemont, IL
- 3/25/2006 Calcaneocuboid distraction arthrodesis and first metatarsal-cuneiform arthrodesis for correction of a flexible flatfoot deformity in a cadaveric model. Contributing author, AOFAS 36th Annual Winter Meeting; Chicago, IL
- 3/25/2006 Symposium II: Truth or consequences: An interactive symposium on surgical decision making. Moderator, AOFAS 36th Annual Winter Meeting; Chicago, IL
- 4/6/2006 Salvaging the diabetic foot. Update on Diabetes XXVIV, Union Memorial Hospital; Baltimore, MD
- 4/27-29/2006 Ankle DJD – Joint “Sparing”. Moderator, Advanced Foot and Ankle Course; Atlanta, GA
- 4/27-29/2006 Complications of treatment of foot and ankle problems: Why it happened/how I managed it. Panelist midfoot/hindfoot case. Advanced Foot and Ankle Course; Atlanta, GA
- 4/27-29/2006 Bunionettes: Why aren’t they all easy? Lesser Toe Problems Session, Advanced Foot and Ankle Course; Atlanta, GA
- 4/27-29/2006 The case not to fuse. First MTC: To fuse or not to fuse? Advanced Foot and Ankle Course; Atlanta, GA
- 4/27-29/2006 Entrapment neuropathies. Neurological problems session. Advanced Foot and Ankle Course; Atlanta, GA
- 2/14/2007 Thinking deeper inside and outside the box. Instructional course: Emerging Methods for Treating Ankle Arthritis, 2007 AAOS Annual Meeting; San Diego, CA
- 4/21/2007 Weil metatarsal osteotomy. The Latest Techniques in Foot and Ankle Surgery. Practical Anatomy and Surgical Education, Saint Louis University; St. Louis, MO
- 4/21/2007 Girdlestone Taylor flexor – extensor transfer. Weil metatarsal osteotomy. The Latest Techniques in Foot and Ankle Surgery. Practical Anatomy and Surgical Education, Saint Louis University; St. Louis, MO
- 4/21/2007 Collateral ligament reconstruction. Weil metatarsal osteotomy. The Latest Techniques in Foot and Ankle Surgery. Practical Anatomy and Surgical Education, Saint Louis University; St. Louis, MO

- 7/12/2007 Diabetic midfoot collapse. 23rd Annual Summer Meeting of the American Orthopaedic Foot & Ankle Society; Toronto, Ontario, Canada
- 7/14/2007 Symposium: From Imus to Oprah to Katie: Tips for interaction between media and orthopaedist. 23rd Annual Summer Meeting of the American Orthopaedic Foot & Ankle Society; Toronto, Ontario, Canada
- 3/5/2008 Thinking deeper inside and outside the box. Instructional course: Emerging Methods for Treating Ankle Arthritis. AAOS Annual Meeting; San Francisco, CA
- 4/12/2008 Advances in pes planus reconstruction: Extra-articular correction and arthroereisis. Keynote Speaker, The 8th Biennial Canadian Orthopaedic Foot & Ankle Symposium; Toronto, Ontario
- 4/12/2008 Advances in Charcot ankle/hindfoot/midfoot reconstruction: Internal and external fixation. The 8th Biennial Canadian Orthopaedic Foot & Ankle Symposium, Toronto, Ontario
- 4/13/2008 Management of acute diabetic and Charcot midfoot and hindfoot fractures. The 8th Biennial Canadian Orthopaedic Foot & Ankle Symposium; Toronto, Ontario
- 5/1/2008 Arthroereisis. Advanced Foot and Ankle Course: Reconstruction and Salvage of Complications; San Francisco, CA
- 5/2/2008 Bone healing adjuncts. Advanced Foot and Ankle Course: Reconstruction and Salvage of Complications; San Francisco, CA
- 5/2/2008 Charcot midfoot reconstruction: When to use plates or external fixation. Advanced Foot and Ankle Course: Reconstruction and Salvage of Complications; San Francisco, CA
- 5/9/2008 Supramalleolar osteotomy. The Latest Techniques in Foot and Ankle Surgery. Practical Anatomy & Surgical Education, Saint Louis University; St. Louis, MO
- 5/10/2008 Plantar neuroma resection. The Latest Techniques in Foot and Ankle Surgery. Practical Anatomy & Surgical Education, Saint Louis University; St. Louis, MO
- 5/10/2008 Weil metatarsal osteotomy. The Latest Techniques in Foot and Ankle Surgery. Practical Anatomy & Surgical Education, Saint Louis University; St. Louis, MO
- 5/10/2008 Girdlestone Taylor flexor-extensor transfer. The Latest Techniques in Foot and Ankle Surgery. Practical Anatomy & Surgical Education, Saint Louis University; St. Louis, MO
- 5/10/2008 Collateral ligament reconstruction. The Latest Techniques in Foot and Ankle Surgery. Practical Anatomy & Surgical Education, Saint Louis University; St. Louis, MO
- 6/27/2008 Elongation of anterior talofibular ligament with range of motion after modified Brostrom procedure: A biomechanical investigation. Presented by Dr. KL Kirk at the Annual Summer Meeting of the AOFAS; Denver, CO
- 6/28/2008 The effect of extracorporeal shock wave therapy on cultured tenocytes. Presented by Dr. SH Han at the Annual Summer Meeting of the AOFAS; Denver, CO
- 9/4/2008 Children's sports injuries in the foot. Pediatric Foot Deformities. 18th Annual Baltimore Limb Deformity Post-Course; Baltimore, MD
- 9/4/2008 Pediatric hallux valgus: Orthopaedic perspective. Pediatric Foot Deformities. 18th Annual Baltimore Limb Deformity Post-Course; Baltimore, MD
- 9/4/2008 Pediatric flatfoot: Arthroereisis from an orthopaedic perspective. Pediatric Foot Deformities. 18th Annual Baltimore Limb Deformity Post-Course; Baltimore, MD
- 9/4/2008 Osteochondroses: The child's foot. Pediatric Foot Deformities. 18th Annual Baltimore Limb Deformity Post-Course; Baltimore, MD
- 6/12/2009 The latest techniques in foot and ankle surgery: A hands-on cadaver workshop. Co-Course Director, Practical Anatomy & Surgical Education, Saint Louis University; St. Louis, MO
- 10/4/2010 Bone marrow stem cells heal tendon via secreted factors. World Stem Cell Summit in collaboration with the University of Maryland School of Medicine; Detroit, MI
- 10/5/2010 Development and in vitro analysis of novel human mesenchymal stem cell delivery textile scaffolds for Achilles tendon repair. World Stem Cell Summit in collaboration with the University Of Maryland School Of Medicine; Detroit, MI
- 7/7/2010 American Orthopaedic Foot & Ankle Society 2010 Summer Meeting; National Harbor Washington, DC

- 7/13/2011 The Treatment of Foot & Ankle Trauma American Orthopaedic Foot & Ankle Society 2011 Pre-Meeting Course; Keystone, CO
- 4/22/2010 Diabetes Case Presentations. Moderator, AOFAS Advanced Course; Philadelphia, PA
- 4/23/2010 External Fixators in Trauma. AOFAS Advanced Course; Philadelphia, PA
- 4/24/2010 Second MTP Instability. AOFAS Advanced Course; Philadelphia, PA
- 2/15/2011 Surgical treatment of hallux rigidus. Fab five of the foot and ankle. AAOS Instructional Course, Annual Meeting of the AAOS; San Diego, CA
- 2/16/2011 Bunionettes. Fab five of the foot and ankle. AAOS Instructional Course, Annual Meeting of the AAOS; San Diego, CA
- 2/17/2011 Faro FD, Guyton GP, Parks BG, Schon LC, Toner M, Vora AM, et al. The treatment of Achilles tendinopathy with tendon debridement and flexor hallucis longus transfer. Annual Meeting of the AAOS; San Diego, CA
- 2/19/2011 Ortho-mations: How to make cool and educational animations for bone-fixing folks. AOFAS Specialty Day; San Diego, CA
- 5/12/2011 Tunnel vision or my delusion. Can I even treat a recurrent tarsal tunnel syndrome? Nerve Issues. AOFAS Surgical Complications of the Foot and Ankle; Baltimore, MD
- 5/12/2011 I wanted a lesser procedure, but makin the Akin a total failure. Hallux Valgus. AOFAS Surgical Complications of the Foot and Ankle; Baltimore, MD
- 5/13/2011 How I correct a valgus malunion after a triple arthrodesis. Two-minute technique tip. AOFAS Surgical Complications of the Foot and Ankle; Baltimore, MD
- 5/13/2011 Taking out the tarsal coalition was easy, but now the foot is even flatter. What now? The Diabetic Foot and Ankle. AOFAS Surgical Complications of the Foot and Ankle; Baltimore, MD
- 5/13/2011 This rocker bottom deformity is wild. Perhaps I should use an external fixator. The Diabetic Foot and Ankle. AOFAS Surgical Complications of the Foot and Ankle; Baltimore, MD
- 5/13/2011 Complication Cases: 5th metatarsal stress fracture. A recurrent navicular stress fracture. They missed a turf toe injury. This Lisfranc injury is now 7 weeks out. Malunion talus fracture. Malunion and non union of a calcaneus. Trauma. AOFAS Surgical Complications of the Foot and Ankle; Baltimore, MD
- 5/13/2011 What plate do I use for a middle column arthrodesis. The Midfoot. AOFAS Surgical Complications of the Foot and Ankle; Baltimore, MD
- 5/13/2011 How I fix the bunionette. Lesser toes. AOFAS Surgical Complications of the Foot and Ankle; Baltimore, MD
- 5/13/2011 Her toes stick up in the air. What is it about this Weil osteotomy? Lesser toes. AOFAS Surgical Complications of the Foot and Ankle; Baltimore, MD
- 5/14/2011 My favorite modification of the Brostrom. Two-minute technique tip. AOFAS Surgical Complications of the Foot and Ankle; Baltimore, MD
- 5/14/2011 She wants to go back to playing volleyball, after I did her Brostrom repair, but the heel is in varus. Should I have done a calacneal osteotomy? Two-minute technique tip. AOFAS Surgical Complications of the Foot and Ankle; Baltimore, MD
- 7/14/2011 Peters P, **Schon LC**, Parks B. Distal tibia plafondplasty for talar dome osteochondral lesion exposure. AOFAS Summer Meeting; Keystone, CO
- 7/14/2011 Miller, SD, **Schon LC**. A new technique: Arthroscopic filling of talar osteochondral defects with stem cell-rich collagen paste. AOFAS Summer Meeting; Keystone, CO
- 7/14/2011 **Schon LC**, Oji D, Guyton G. Retrospective review of the treatment of talar chondral lesions with particulated juvenile cartilage allograft. AOFAS Summer Meeting; Keystone, CO
- 2/8/2012 Surgical treatment of hallux rigidus. Fab five of the foot and ankle. AAOS Instructional Course, Annual Meeting of the AAOS; San Francisco, CA
- 2/9/2012 Bunionettes. Fab five of the foot and ankle. AAOS Instructional Course, Annual Meeting of the AAOS; San Francisco, CA

- 4/20/2012 Advances in Achilles tendon disorders and treatment. Canadian Orthopaedic Foot and Ankle Symposium; Toronto, Ontario
- 4/21/2012 Advances in management of the adult progressive flat foot deformity. Canadian Orthopaedic Foot and Ankle Symposium; Toronto, Ontario
- 5/3/2012 Charcot reconstruction: Ring fixator. AOFAS Advanced Foot and Ankle Course: Reconstruction and Salvage of Complications; Chicago, IL
- 5/4/2012 Second MTP overload / dislocation. AOFAS Advanced Foot and Ankle Course: Reconstruction and Salvage of Complications; Chicago, IL
- 5/5/2012 Arthroereisis. Advanced Foot and Ankle Course: AOFAS Advanced Foot and Ankle Course: Reconstruction and Salvage of Complications; Chicago, IL
- 6/21/2012 Use of allograft chondrocyte implantation for talus OCD. AOFAS Summer Meeting; San Diego, CA
- 6/22/2012 The effect of the dorsal opening wedge (Cotton) osteotomy as a combined procedure for acquired flat foot deformity. AOFAS Summer Meeting; San Diego, CA
- 6/23/2012 Stem cell bearing sutures improve Achilles tendon healing and repair strength in a rat model. AOFAS Summer Meeting; San Diego, CA
- 6/23/2012 Computed tomography analysis of third webspace injections for interdigital neuroma. AOFAS Summer Meeting; San Diego, CA
- 11/29/2012 Dislocating peroneal tendons: Stop the snapping! AOFAS/AAOS International Course; Orlando, FL
- 11/29/2012 Medial foot pain: Insertional anterior tibial tendon problems. AOFAS/AAOS International Course; Orlando, FL
- 12/1/2012 Lesser toe mania: Toes gone wild. Discussion. AOFAS/AAOS International Course; Orlando, FL
- 12/1/2012 Biomechanical assessment of flatfoot correction techniques in a cadaver model. AOFAS/AAOS International Course; Orlando, FL
- 12/13/2012 Advances in reconstruction of ankles and heels. SOMOS 54th Annual Meeting; Naples, FL
- 3/19/2013 Pes planovalgus: From adolescent to adulthood. AAOS 2013 Annual Meeting; Chicago, IL
- 3/19/2013 Fab five of the foot and ankle. AAOS 2013 Annual Meeting; Chicago, IL
- 5/16/2013 Advances in treating the Achilles and posterior tibial tendon disorders. 24th Annual Southeastern Foot Club; Point Clear, AL
- 5/16/2013 Ankle reconstructions via lateral approach: Autograft, allograft and arthroscopy. 24th Annual Southeastern Foot Club; Point Clear, AL
- 5/17/2013 Diabetes: Midfoot Charcot, Moderator. AOFAS Surgical Complications Course; Durham, NC
- 5/17/2013 Case presentation and Audience Q&A, Moderator. AOFAS Surgical Complications Course; Durham, NC
- 5/17/2013 Lack of active dorsiflexion after posterior tibial tendon transfer. AOFAS Surgical Complications Course; Durham, NC
- 5/18/2013 Chronic pain from the orthopaedic standpoint: US perspective. AOFAS Surgical Complications Course; Durham, NC
- 5/18/2013 Failed reconstruction of tibialis anterior tendon: Perspective I. AOFAS Surgical Complications Course; Durham, NC
- 7/19/2013 Hardware from hell: Tricks on getting it all out. 2013 AOFAS Annual Summer Meeting; Hollywood, FL
- 10/18/2013 Forefoot problems in the athlete: Operative treatment. AOFAS Sports Injuries of the Foot and Ankle Course; Houston, TX
- 10/18/2013 Plantar plate injuries and 2nd MTP synovitis. AOFAS Sports Injuries of the Foot and Ankle Course; Houston, TX
- 10/19/2013 Surgical treatment of non-insertional Achilles tendinitis. AOFAS Sports Injuries of the Foot and Ankle Course; Houston, TX

- 10/19/2013 Reconstruction of the chronic syndesmosis injury. AOFAS Sports Injuries of the Foot and Ankle Course: Houston, TX
- 10/19/2013 Nerve compression syndromes in athletes- diagnosis and treatment. AOFAS Sports Injuries of the Foot and Ankle Course: Houston, TX
- 2/20/2014 Total ankle arthroplasty, Moderator. AAOS/AOFAS Total Ankle Arthroplasty Course #3638; Orthopaedic Learning Center, Rosemont, IL
- 2/20/2014 Panel Discussion and Questions, Moderator. . AAOS/AOFAS Total Ankle Arthroplasty #3638; Orthopaedic Learning Center, Rosemont, IL
- 2/22/2014 Video demonstration, Case discussions, Hands on Mentoring in Ankle Replacement Implantation. AAOS/AOFAS Total Ankle Arthroplasty Course #3638; Orthopaedic Learning Center, Rosemont, IL
- 3/14/2014 Pes Planovalgus: From adolescent to adulthood. AAOS Annual Meeting, New Orleans, LA
- 3/14/2014 Don't get on my nerves. AAOS Annual Meeting, New Orleans, LA
- 3/14/2014 Ask the expert case review. AAOS Annual Meeting, New Orleans, LA
- 4/04/2014 Emerging trends in ankle arthritis. 21st annual Thomas Dameron Lectureship, Raleigh NC
- 4/04/2014 Advances in diabetic foot and ankle reconstruction. 21st annual Thomas Dameron Lectureship, Raleigh, NC
- 4/11/2014 Particulated juvenile articular cartilage allograft for treatment of osteochondral lesions in the ankle: The Medstar Union Memorial Hospital experience. International Congress on Cartilage Repair of the Ankle, ESSKA-AFAS 2014, Prague , Czech Republic
- 9/20/2014 Histologic characterization of synovium in charcot neuroarthropathy. IFFAS and AOFAS Annual Meeting, Chicago, IL
- 9/21/2014 Flatfoot: Cutting, spreading and lifting: The opening wedge osteotomies for the flatfoot. IFFAS and AOFAS Annual Meeting, Chicago, IL
- 10/23/2014 Ankle reconstruction via a lateral approach: Reconstruction and arthroplasty. Hartford Orthopaedic Forum, Unconn Health Musculoskeletal Institute Department of Orthopaedic Surgery and Hartford Healthcare Bone & Joint Institute, Hartford Hospital, Hartford, CT
- 2/19/2015 Forefoot 3. Moderator, Baltimore Fellows Foot and Ankle Meeting, Vail, CO
- 2/19/2015 The use of MSC and PRP. Baltimore Fellows Foot and Ankle Meeting, Vail, CO
- 2/19/2015 The most useful things I've learned since 2013. Keynote Lecture, Baltimore Fellows Foot and Ankle Meeting, Vail, CO
- 2/21/2015 Ask the panel. Moderator, Baltimore Fellows Foot and Ankle Meeting, Vail, CO
- 3/24/2015 Don't get on my nerves. AAOS Annual Meeting, Las Vegas, NA
- 3/24/2015 Challenges and controversies in foot and ankle trauma. AAOS Annual Meeting, Las Vegas, NA
- 3/25/2015 Getting it right the second time: Pearls and principles for revision surgery in the foot and ankle. AAOS Annual Meeting, Las Vegas, NA
- 3/26/2015 Pes planovalgus from adolescent to adulthood. AAOS Annual Meeting, Las Vegas, NA

Poster Presentations:

- 2/24/1996 An extensive exposure of the midfoot for treatment of the severe rocker bottom deformity. AAOS Annual Meeting, Atlanta, GA
- 11/15/1997 Assessment and management of the rocker-bottom foot. Combined Meeting of AOFAS and Japanese Society for Surgery of the Foot, Waikoloa, Hawaii
- 11/15/1997 A biomechanical evaluation of two different screw positions for fusion of the calcaneocuboid joint. Combined Meeting of the AOFAS and the Japanese Society for Surgery of the Foot, Waikoloa, Hawaii

- 11/15/1997 Saphenous vein graft for tibial neuralgia. Combined Meeting of the AOFAS and the Japanese Society for Surgery of the Foot, Waikoloa, Hawaii
- 6/24/1998 The topography of the posterior tibial nerve and its branches. AOFAS Summer Meeting, Boston, MA
- 6/25/1998 Transpedal multiplanar wedge osteotomies/fusion for complex midfoot and hindfoot deformities. AOFAS Summer Meeting, Boston, MA
- 6/26/1998 A biomechanical evaluation of two different screw positions for fusion of the calcaneocuboid joint. AOFAS Summer Meeting, Boston, MA
- 6/26/1998 Preliminary results of peripheral nerve stimulation for intractable lower extremity nerve pain. AOFAS Summer Meeting, Boston, MA
- 9/16/1998 Preliminary results of peripheral nerve stimulation. International Neuromodulation Society Meeting, Lucerne, Switzerland
- 9/17/1998 Preliminary results of isolated subtalar arthrodesis: Factors leading to failure. COMFAS Meeting, Venice, Italy
- 10/1998 Preliminary results of PNS. Australian Orthopaedic Society, Cairns, Australia
- 10/1998 Transpedal multiplanar wedge osteotomies/fusion for complex midfoot and hindfoot deformities. Australian Orthopaedic Society, Cairns, Australia
- 2/4/1999 Complex midfoot and hindfoot deformities treated with transpedal multiplanar wedge osteotomies/fusion. The 66th Annual AAOS Meeting, Anaheim-Orange County, CA
- 3/4/1999 Universal immediate or early post-operative prosthesis for below-knee amputees. AAOP, New Orleans, LA
- 4/18/1999 Pedobarograph releve analysis. SICOT Meeting, Sidney, Australia
- 7/9/1999 A new technique for fixation of fibula fracture. AOFAS Summer Meeting, San Juan, Puerto Rico
- 7/9/1999 Acquired midtarsus deformity classification system: Interobserver reliability-intraobserver reproducibility. AOFAS Summer Meeting, San Juan, Puerto Rico
- 7/9/1999 Pneumatic Achilles wrap: Prospective. AOFAS Summer Meeting, San Juan, Puerto Rico
- 2/24/2000 Preliminary results of peripheral nerve stimulation for intractable lower extremity pain. American Academy of Pain Medicine, New Orleans, LA
- 2/25/2000 Surgical management of chronic lower extremity neuropathic pain. American Academy of Pain Medicine, New Orleans, LA
- 3/18/2000 Airlimb prospective study. American Orthotic and Prosthetic Association Annual Meeting, San Diego, CA
- 3/18/2000 New fibula fracture fixation technique: A chronic Achilles tendon reconstruction. Instructional Course Lecture, AAOS 67th Annual Meeting, Orlando, FL
- 3/15/2002 A short-term prospective analysis of peripheral nerve stimulation for intractable lower extremity nerve pain. American Pain Society, Baltimore, MD
- 3/10/2004 Supplementary K-wire fixation for crescentic and Ludloff proximal metatarsal osteotomies: A biomechanical study. AAOS 71st Annual Meeting, San Francisco, CA
- 7/13/2006 Biomechanical comparison of locking plate and intramedullary fixation for tibiotalar calcaneal arthrodesis. Co-author, AOFAS 22nd Annual Summer Meeting, La Jolla, CA
- 7/14/2006 A subtalar implant (arthroereisis) as an adjunct treatment for posterior tibial tendon dysfunction: Short term radiographic results. Co-author, AOFAS 22nd Annual Summer Meeting, La Jolla, CA
- 12/11/2006 Risk to neurovascular structures using posterolateral percutaneous ankle screw placement: A cadaveric study. Co-author, SOMOS 48th Annual Meeting, Honolulu, HI
- 7/13/2007 Small incision distal metatarsal shaft osteotomy (Kramer) for treatment of bunionette deformity: A retrospective comparative investigation. Co-author, AOFAS 23rd Annual Summer Meeting, Toronto/ Ontario, Canada
- 7/13/2007 Stability and angle correction capacity of the modified Mau osteotomy: A biomechanical study. Co-author, AOFAS 23rd Annual Summer Meeting, Toronto/ Ontario, Canada

- 7/13/2007 The effect and safety of the dorsal opening wedge (Cotton) osteotomy as a combined procedure for the treatment of flatfoot deformity: Short term follow-up reports from 6-24 months. Co-author, AOFAS 23rd Annual Summer Meeting, Toronto/ Ontario, Canada
- 7/14/2007 Blade-plate compared with locking-plate fixation for tibiototalcalcaneal arthrodesis: A biomechanical study. Co-author, AOFAS 23rd Annual Summer Meeting, Toronto/ Ontario, Canada
- 7/14/2007 Chevron osteotomy: A 3-D digitizer analysis of metatarsal head movement in the frontal and transversal plane depending on the orientation of the osteotomy (determined with a guide wire) with saw bone Co-author, AOFAS 23rd Annual Summer Meeting, Toronto/ Ontario, Canada
- 7/14/2007 Tendon graft with interference screws and one Fiberwire button fixation of ankle distal tibiofibular syndesmosis diastasis: A biomechanical study. Co-author, AOFAS 23rd Annual Summer Meeting, Toronto/ Ontario, Canada
- 7/15/2007 Mechanical response of the lateral ankle ligaments after modified Brostrom procedure. Co-author, AOFAS 23rd Annual Summer Meeting, Toronto/ Ontario, Canada
- 7/15/2007 Periosteal flap augmentation of the Brostrom lateral ankle reconstruction: Technique tip. Co-author, AOFAS 23rd Annual Summer Meeting, Toronto/ Ontario, Canada
- 7/15/2007 Radiographic and pedobarographic comparison of femoral head allograft versus block plate with dorsal opening wedge medial cuneiform osteotomy: A cadaver study. Co-author, AOFAS 23rd Annual Summer Meeting, Toronto/ Ontario, Canada
- 7/15/2007 The effects of bupivacaine on cultured tenocytes. Co-author, AOFAS 23rd Annual Summer Meeting, Toronto/ Ontario, Canada
- 6/26/2008 The effect of recombinant human morphogenetic protein-2 (hrBMP-2) on the human tenocyte: A preliminary study. Co-author, AOFAS Annual Summer Meeting
- 2/22/2009 Cell concentrate from autologous bone marrow augments bone grafting in the lower extremity. Co-author, ORS 55th Annual Meeting, Las Vegas, NV
- 2/23/2009 Cell concentrate from autologous bone marrow augments bone grafting in the lower extremity. Co-author, ORS 55th Annual Meeting, Las Vegas, NV
- 9/21/2009 Development and in vitro analysis of novel human mesenchymal stem cell delivery textile scaffolds for Achilles tendon repair. Co-author, 2009 World Stem Cell Summit, Baltimore, MD
- 3/6/2010 Normal and diseased primary human tenocytes proliferate in response to rhPDGF-BB. Co-author, ORS 56th Annual Meeting, New Orleans, LA
- 7/7/2010 Xenograft scaffold full-wrap reinforcement of Krackow Achilles tendon repair: A biomechanical study. Co-author, AOFAS 26th Annual Summer Meeting, Baltimore, MD
- 7/8/2010 Lateral column plantar pressures with calcaneocuboid sparing modified double arthrodesis versus conventional triple arthrodesis. Co-author, AOFAS 26th Annual Summer Meeting, Baltimore, MD
- 2/4/2012 Stem cell loaded sutures improve tendon healing and repair strength in a rat model. Co-author, ORS Annual Meeting, San Francisco, CA
- 2/5/2012 Inflammatory cytokine composition and metabolic profile of post-traumatic ankle joint arthritis. Co-author, ORS Annual Meeting, San Francisco, CA
- 3/5/2012 Inflammatory cytokine composition and metabolic profile of post-traumatic ankle joint arthritis. Co-author, MedStar Health Research Symposium, Columbia, MD
- 3/5/2012 Stem cell loaded sutures improve tendon healing and repair strength in a rat model. Co-author, MedStar Health Research Symposium, Columbia, MD
- 3/5/2012 Lateral column plantar pressures after conventional triple arthrodesis versus calcaneocuboid sparing modified double arthrodesis. Co-author, MedStar Health Research Symposium, Columbia, MD
- 3/5/2012 Distal tibia plafondplasty for talar dome access. Co-author, MedStar Health Research Symposium, Columbia, MD

- 3/5/2012 Biomechanical comparison of two ankle arthrodesis techniques: A posteriorly applied blade plate vs. crossed screws. Co-author, MedStar Health Research Symposium, Columbia, MD
- 3/5/2012 Xenograft scaffold full-wrap reinforcement of Krackow Achilles tendon repair: A biomechanical study. Co-author, MedStar Health Research Symposium, Columbia, MD
- 3/5/2012 Computed tomography analysis of third webspace injections for interdigital neuroma. Co-author, MedStar Health Research Symposium, Columbia, MD
- 5/12/2012 Inflammatory cytokine composition and metabolic profile of post-traumatic ankle joint arthritis. Co-author, 10th World Congress of the International Cartilage Repair Society, Montreal, Canada
- 1/26/2013 Stereological quantification of the plantar foot pad in young versus aging rats. Co-author, Meeting of the Orthopaedic Research Society (ORS), San Antonio, TX
- 1/27/2013 Efficacy of a mesenchymal stem cell loaded surgical mesh in the healing of rat Achilles tendon ORS Annual Meeting, San Antonio, TX
- 3/04/2013 Efficacy of a mesenchymal stem cell loaded surgical mesh in the healing of rat Achilles tendon, Co-author, MedStar Health Research Symposium, Columbia, MD
- 3/04/2013 Quantitative comparison of plantar fat pads in young aging aging rats: a stereological study. Co-author, MedStar Health Research Symposium, First place winner in the Orthopedics/Sports Medicine category, Columbia, MD
- 4/13/2013 Kramer osteotomy for bunionettes. MOA 72nd Annual Meeting, Baltimore, MD
- 4/18/2013 Lesions at the junction between uncalcified and calcified cartilage zones during the development of osteoarthritis. Co-author, OARSI Annual Meeting, Philadelphia, PA
- 7/19/2013 A biomechanical evaluation of threaded headless screws compared to traditional headed screws in a subtalar fusion model. Co-author, AOFAS Summer Meeting, Hollywood, FL
- 7/20/2013 The effect of Ddynamic vs. static fixation on malreduction of unstable syndesmotic injuries. Co-author, AOFAS Summer Meeting, Holywood, FL
- 12/03/2013 Muscle-derived mesenchymal stem cells in the pathology of heterotopic ossification. Co-author, 6th Annual Maryland Stem Cell Research Symposium, Baltimore, MD
- 3/10/2014 Muscle-derived mesenchymal stem cells in the pathology of heterotopic ossification. Co-author, 3rd Annual MedStar Health Research Symposium, Columbia, MD
- 3/14/2014 Management of acute traumatic ankle fractures in the neuropathic patient: Recognizing the sweet to avoid the sour. Co-author, AAOS 2014 Scientific Exhibit, AAOS Annual Meeting, New Orleans
- 3/15/2014 The Effect of Dynamic vs. Static Fixation on Malreduction of Unstable Syndesmotic Injuries. Co-author, AAOS Specialty day, AAOS Annual Meeting, New Orleans, LA
- 3/15/2014 Histologic characterization of synovium in Charcot neuroarthropathy. Co-author, AOFAS Annual Specialty Day in conjunction with the AAOS New Orleans, LA
- 3/16/2014 TNF- alpha increases chondrolysis by fibroblast-like synoviocytes mediate chondrolysis and potentially osteolysis in Charcot neuroarthropathy. Co-author, ORS Annual Specialty Day in conjunction with the AAOS, New Orleans, LA
- 3/17/2014 The pathology of the calcified zone of articular cartilage in post-traumatic osteoarthritis in rat knees. Co-author, ORS Annual Specialty Day in conjunction with the AAOS, New Orleans, LA
- 6/26/2014 Lateral column lengthening in flatfoot reconstruction: a biomechanical comparison of the Evans and Hintermann osteotomies. Co-author, 10th Annual Visiting Professor Lectureship Conference, Union Memorial Hospital, Baltimore, MD
- 9/10/2014 Key role of fibroblast-like synoviocytes in Charcot neuroarthropathy. Co-author, 5th Triennial Scientific Meeting of the International Federation of Foot & Ankle Societies (IFFAS), Chicago, IL
- 9/11/2014 Cutting, spreading and lifting: the opening wedge osteotomies for the flatfoot. Author, 5th Triennial Scientific Meeting of the International Federation of Foot & Ankle Societies (IFFAS), Chicago, IL

- 9/12/2014 Histologic characterization of synovium in Charcot neuroarthropathy. Co-author, 5th Triennial Scientific Meeting of the International Federation of Foot & Ankle Societies (IFFAS), Chicago, IL
- 11/20/2014 3D imaging of the foot and ankle using a dedicated extremity cone-beam CT scanner. Co-author, 100th Scientific Assembly and Annual Meeting of the Radiological Society of North America (RSNA), Chicago, IL
- 12/02/2014 Isolation of mesenchymal stem cells from the synovium of Charcot joints. Co-author, 7th Annual Maryland Stem Cell Research Fund (MSCRF) Symposium, Silver Spring, MD
- 12/02/2014 Mesenchymal stem cells in the muscles are the source of heterotopic ossification. Co-author, 7th Annual Maryland Stem Cell Research Fund (MSCRF) Symposium, Silver Spring, MD
- 3/09/2015 Role of fibroblast-like synoviocytes in the pathology of Charcot neuroarthropathy. 4th Annual MedStar Health Research Symposium, Columbia, MD
- 3/05-08/2016 Application of pulsed low-intensity ultrasound for post-traumatic osteoarthritis: an animal study. Presented as poster at the Annual Meeting of the Orthopaedic Research Society (ORS), Orlando, FL
- 3/05-08/2016 Isolation and characterization of synovial mesenchymal stem cells in Charcot neuroarthropathy. Presented as poster at the Annual Meeting of the Orthopaedic Research Society (ORS), Orlando, FL, March 5-8, 2016.
- 3/18/2017 Hindfoot alignment of adult acquired flatfoot Deformity: A comparison of clinical assessment and weightbearing cone-beam CT examinations. Co-author American Orthopaedic Foot & Ankle Society, San Diego, CA

Review Courses:

- 10/13/1990 Nerves and RSD – Surgery of the foot and ankle. Regional Review Course, Philadelphia, PA
- 11/1991 Nerves and RSD – Surgery of the foot and ankle. Regional Review Course, New York, NY
- 10/1993 Talus fractures. AOFAS Regional Review Course, Baltimore, MD
- 10/1993 Anatomy of the foot. AOFAS Regional Review Course, Baltimore, MD
- 9/1994 Arthritic conditions of the forefoot. AOFAS Regional Resident Review Course, Philadelphia, PA
- 11/12/1999 Reconstruction techniques for subtalar instability. The William Goldfarb Foundation 29th Annual Goldfarb Clinical Conference and 19th Annual Intensive, Review, Refresher & Recertification Course, Harrisburg, PA
- 11/12/1999 Midfoot fusion techniques for neuropathic feet. William Goldfarb Foundation 29th Annual Goldfarb Clinical Conference and 19th Annual Intensive, Review, Refresher & Recertification Course, Harrisburg, PA
- 11/12/1999 Hallux metatarsophalangeal arthritis. William Goldfarb Foundation 29th Annual Goldfarb Clinical Conference and 19th Annual Intensive, Review, Refresher & Recertification Course, Harrisburg, PA
- 10/7/2000 Foot and Ankle. Johns Hopkins University OITE Review Course, Baltimore, MD
- 10/2002 Foot and ankle review. Johns Hopkins University/ Union Memorial In-Training Exam OITE Review Course, Baltimore, MD
- 11/1/2003 Lesser toes/forefoot. Johns Hopkins Hospital OITE Review Course, Baltimore, MD
- 11/1/2003 Sports. Hopkins University OITE Review Course, Baltimore, MD
- 11/1/2003 Arthritis-ankle, hindfoot, midfoot, forefoot (include hallux rigidus). Hopkins University OITE Review Course, Baltimore, MD
- 5/23/2004 Foot and ankle arthritis. Orthopaedic Review Course, Baltimore, MD
- 5/23/2004 Tendon disorders. Orthopaedic Review Course, Baltimore, MD
- 5/23/2004 Sports medicine. Orthopaedic Review Course, Baltimore, MD

- 6/26/2005 Reconstructive indications for external fixation. Johns Hopkins University OITE Review Course, Baltimore, MD
- 6/26/2005 Midfoot frame and case presentation. Johns Hopkins University OITE Review Course, Baltimore, MD
- 6/26/2005 Distraction arthroplasty frame and case presentation. Johns Hopkins University OITE Review Course, Baltimore, MD
- 6/27/2005 Foot and ankle arthritis. Johns Hopkins University OITE Review Course, Baltimore, MD
- 6/27/2005 Tendon disorders. Johns Hopkins University OITE Review Course, Baltimore, MD
- 6/27/2005 Sports medicine. Johns Hopkins University OITE Review Course, Baltimore, MD
- 6/10/2009 Foot and ankle training session. Johns Hopkins University OITE Review Course, Baltimore, MD
- 9/17/2009 Foot and ankle training session. Johns Hopkins University OITE Review Course, Baltimore, MD
- 6/9/2010 Foot and ankle training session. Johns Hopkins University OITE Review Course, Baltimore, MD
- 10/6/2011 Foot and ankle training session. Johns Hopkins University OITE Review Course, Baltimore, MD

Grand Rounds:

- 12/88 The use of AO technique for complicated lower extremity fractures. Priorov Central Institute of Traumatology and Orthopaedics, Moscow, USSR
- 1/19/1990 Neuropathies of the foot and ankle in athletes. Baylor College of Medicine, Orthopaedic Department, Houston, TX
- 5/1990 Neuropathies of the foot and ankle in athletes. University of Texas at Houston, Orthopaedic Division, Houston, TX
- 3/23/1991 Painful heel syndrome. Johns Hopkins Hospital, Orthopaedics Department, Baltimore, MD
- 4/12/1991 Neuropathies in athletes. Sinai Hospital, Physical Medicine and Rehabilitation, Baltimore, MD
- 11/1991 Lower extremity problems in dancers. Sinai Hospital, Department of Rehabilitation, Baltimore, MD
- 3/14/1992 Athletic lower extremity neuropathies. Johns Hopkins Hospital Baltimore, MD
- 4/3/1992 Rheumatologic conditions of the foot and ankle. University of Maryland, Department of Orthopaedics, Baltimore, MD
- 11/1992 Fusions of the foot and ankle: Leg pain in athletes. Soroko Medical Center Foot and Ankle Trauma, Bersheva, Israel
- 6/9/1994 Surgery of the foot and ankle: Technical advances. Hospital for Joint Diseases Orthopaedic Institute, New York, NY
- 1/28/1995 Neuropathic midfoot diagnosis and treatment. Johns Hopkins University, Baltimore, MD
- 4/15/1995 Treatment of severe midfoot deformities: The plantar plate. Johns Hopkins University, Baltimore, MD
- 3/19/1996 Treatment Charcot foot and salvage for chronic nerve problems in the foot and ankle. Baylor School of Medicine, Department of Orthopaedics, Houston, TX
- 3/26/1996 Advances in foot and ankle reconstruction. Allegheny General Hospital, Pittsburgh, PA
- 12/6/1996 Inflammatory arthritis of the foot and ankle. University of Maryland, Department of Orthopaedics, Baltimore, MD
- 9/17/1997 Charcot foot and ankle. Mt. Sinia Hospital, Department of Orthopaedics, New York, NY
- 1/27/1999 Surgical management of complex foot & ankle trauma. , University of Texas Medical Branch, Department of Orthopaedics
- 2/26/1999 Complex salvage in the foot and ankle trauma. University of Maryland, Shock Trauma, Baltimore, MD

- 12/2/1999 Transtibial amputation. Rehabilitation Center, Bad Endorf; Germany
- 12/9/1999 Neurostimulator for chronic lower extremity pain. Visiting Lectureship, Cleveland Clinic, Cleveland, OH
- 5/11/2000 Surgical management for chronic nerve pain. Milton S. Hershey Medical Center, Department of Orthopaedics, Hershey, PA
- 5/27/2000 Management of intractable lower extremity neuralgia. University of Rochester, University Orthopaedic Associates, Strong Memorial Hospital. Rochester, NY
- 6/19/2000 Charcot reconstruction. Aalborg University, Orthopaedic Department, Aalborg, Denmark
- 6/19/2000 Transtibial amputation. Aalborg University, Orthopaedic Department, Aalborg, Denmark
- 4/11/2001 Complex ankle, hindfoot, and midfoot reconstruction. University of Utah, Department of Orthopaedics, Salt Lake City, Utah
- 4/19/2001 Treatment of chronic nerve disorders. Visiting Professor, Rothman Institute, Jefferson Department of Orthopaedic Surgery, Philadelphia, PA
- 5/24/2001 Salvage of complex foot and ankle deformities. Robert Wood Johnson University of Medicine and Dentistry, New Brunswick, NJ
- 12/5/2001 Salvage for complex neuralgia in the lower extremities. University of Pittsburgh, Pittsburgh, PA
- 11/18/2002 Podiatric and x-ray review with residents/Attendings. Gunderson Lutheran Hospital, Wisconsin Orthopaedic Foot & Ankle Club, Wisconsin, IL
- 11/20/2002 Complex Foot and Ankle Trauma and Reconstruction. University of Illinois, Chicago, IL
- 5/8/2003 Osteotomies for foot and ankle reconstruction. George Washington University, Washington, DC
- 9/5/2003 Fresh allograft ankle resurfacing. Johns Hopkins Department of Orthopaedic Surgery, Baltimore, MD
- 6/8/2004 Talus and calcaneal fractures. Resident Conference, Union Memorial Hospital, Baltimore, MD
- 11/16/2004 The adult acquired flatfoot. Mt. Sinai Hospital, Department of Orthopaedics, New York, NY
- 4/14/2005 Adult flat foot: Biochemical, retrospective and prospective assessments. Johns Hopkins Medical Institution, Department of Orthopaedics, Baltimore, MD
- 3/29/2006 Foot and ankle disorders. Nathaniel Gould Lectureship, University of Vermont, Burlington, VT
- 4/20/2006 Tendon disorders of the foot and ankle. Melvin Jahss Lectureship, Hospital for Joint Disease, New York, NY
- 4/20/2006 Posterior tibial tendonitis: Biomechanical and clinical perspective. Melvin Jahss Lectureship, Hospital for Joint Disease, New York, NY
- 6/15/2006 Achilles tendinopathy: The spectrum of the disease. Johns Hopkins Medical Institution, Baltimore, MD
- 2/1/2007 Hallux valgus: Common surgical procedures. Johns Hopkins Bayview, Baltimore, MD
- 5/11/2007 The diagnosis and treatment of tendon disorders of the foot and ankle. Ohio State University, Department of Orthopaedics, Columbus, OH
- 6/18/2007 Foot and ankle sports injuries. Yonsei University, Seoul, Korea
- 9/11/2007 Tendon disorders of the foot and ankle. University of Maryland, Baltimore, MD
- 10/5/2007 Posterior tibial tendon insufficiency: An archetypal investigation. Michael Bonfiglio Visiting Professor, University of Iowa Orthopaedic Alumni Association, Department of Orthopaedic Surgery and Rehabilitation, Iowa City, IA
- 10/6/2007 Reconstruction of the diabetic foot and ankle: Sweet salvation. Michael Bonfiglio Visiting Professor, University of Iowa Orthopaedic Alumni Association, Department of Orthopaedic Surgery and Rehabilitation, Iowa City, IA
- 2/19/2008 Rheumatologic disorders of the foot and ankle. University of Maryland, Division of Rheumatology, Baltimore, MD

2/10/2009	Sports injuries of the foot and ankle. Georgetown University, Department of Orthopaedics, Washington, DC
9/11/2009	Advances in the treatment of tendinopathy in the foot and ankle. Rose Honorary Lecture in Foot and Ankle, Hospital for Surgery, New York, NY
9/18/2009	Foot and ankle nerve pain. Johns Hopkins Hospital, Baltimore, MD
4/9/2010	Foot and ankle trauma and reconstruction. Case presentations, 15 th Annual Gerald S. Laros Memorial Visiting Professorship, University of Chicago, Chicago, IL
4/10/2010	Advances in the treatment of foot & ankle sports. 15 th Annual Gerald S. Laros Memorial Visiting Professorship, University of Chicago, Chicago, IL
1/11/2011	Sports and dance injuries of the foot and ankle. University of Virginia, Charlottesville, VA
1/12/2011	Advances in treating tendon disorders; Achilles and posterior tibialis. University of Virginia, Charlottesville, VA
4/12/2011	Hitchhikers guide to the Achilles tendon. Duke-UNC, Triangle Orthopaedics, Durham, NC
10/21/2012	Tendon injuries of the foot and ankle. Syracuse University, Department of Orthopaedics, Syracuse, NY
1/7/2013	Advances in treating Achilles and posterior tibial tendon disorders. Boston University School of Medicine, Department of Orthopaedic Surgery, Boston, MA
1/11/2013	Advances in the treatment of tendons of the foot and ankle. Yale University School of Medicine, Department of Orthopaedics, New Haven, CT
1/11/2013	Updates on Charcot of the foot and ankle. Yale University School of Medicine, Department of Orthopaedics, New Haven, CT
11/15/2013	Advances in tendon injuries- Earl C. Marmer, MD Lecture. Einstein University, Department of Orthopaedics, Philadelphia, PA
10/24/2014	Advances in treating Achilles and posterior tibial tendon disorders. UConn Health Musculoskeletal Insistute Department of Orthopaedic Surgery and Hartford Healthcare Bone & Joint Institute at Hartford Hospital
11/13/2014	Treatment of Osteochondral Defects of the Talus. Walter Reed, Bethesda, MD
1/20/2015	Advances in treating Achilles and posterior tibial tendon disorders. Medical Universty of South Carolina, Department of Orthopaedics, Charleson, SC
10/4/2017	_____. Brigham and Women's Hospital, Department of Orthopaedics, Boston MA

Workshops/Seminars: *Unless otherwise specified, role is lecturer

3/1/1997	Reconstruction for lower extremity trauma. Spring Meeting and Workshop, Baltimore, MD
3/28/1998	Physician Roundtable for the Advancement of Neurostimulation, Philadelphia, PA
2/5/1999	Salvage of complex foot & ankle trauma. AAOS 66 th Annual Meeting, Anaheim-Orang County, CA
2/5/1999	Complex midfoot and hindfoot deformities treated with transpedal multiplanar wedge osteotomies/fusion. AAOS 66 th Annual Meeting, Anaheim-Orange County, CA
4/1/2000	Pantalar arthrodesis. Institute for Foot & Ankle Studies, Baltimore, MD
4/1/2000	Plantar plating of a midfoot reconstruction (video). Institute for Foot & Ankle Studies, Baltimore, MD
4/2/2000	Application of ring external fixator. Institute for Foot & Ankle Studies, Baltimore, MD
4/2/2000	Neuropathic arthrodesis. Institute for Foot & Ankle Studies, Baltimore, MD
4/2/2000	Neuropathic arthrodesis with a ring external fixator (video). Institute for Foot & Ankle Studies, Baltimore, MD
3/31/2001	Application of ring external fixation: Midfoot/forefoot reconstructions. 2001 Institute for Foot and Ankle Studies, Union Memorial Hospital, Baltimore, MD
4/1/2001	Neuropathic arthrodesis. 2001 Institute for Foot and Ankle Studies, Union Memorial Hospital, Baltimore, MD

- 4/13/2002 The Ludloff Osteotomy. Institute for Foot & Ankle Studies, Baltimore, MD
- 4/13/2002 Application of a ring external fixator. Institute for Foot & Ankle Studies, Baltimore, MD
- 4/13/2002 Lesser metatarsal distal osteotomy for deformity. Institute for Foot & Ankle Studies, Baltimore, MD
- 11/19/2002 External fixation: Thin-wire fixation in difficult periarticular fracture, Charcot foot frames, x-ray review of difficult cases. DePuy Sponsored Lecture, The Wisconsin Foot and Ankle Club, Milwaukee, IL
- 4/12/2003 Ludloff bunionectomy lesser metatarsal osteotomy. 4th Annual Institute for Foot & Ankle Studies, Mercy Medical Center, Baltimore, MD
- 4/12/2003 Ludloff bunionectomy. Lesser metatarsal osteotomy (video). 4th Annual Institute for Foot & Ankle Studies, Mercy Medical Center, Baltimore, MD
- 4/13/2003 Indications for ring fixator. 4th Annual Institute for Foot & Ankle Studies, Mercy Medical Center, Baltimore, MD
- 4/13/2003 Indications for ring fixator (video). 4th Annual Institute for Foot & Ankle Studies, Mercy Medical Center, Baltimore, MD
- 2/28/2004 The Ludloff Osteotomy. 5th Institute for Foot & Ankle Studies Learning Course, Mercy Medical Center, Baltimore, MD
- 2/28/2004 Plantar arthrodesis and TTC (lecture and video). 5th Annual Institute for Foot & Ankle Studies, Mercy Medical Center, Baltimore, MD
- 2/29/2004 Indications for ring fixator (lecture and video). 5th Annual Institute for Foot & Ankle Studies, Mercy Medical Center, Baltimore, MD
- 4/2/2005 Discussion of triple arthrodesis. 7th Annual Institute for Foot & Ankle Studies, Mercy Medical Center, Baltimore, MD
- 4/2/2005 Discussion of bunionectomy/Weil osteotomy. 7th Annual Institute for Foot & Ankle Studies, Mercy Medical Center, Baltimore, MD
- 4/3/2005 Calcaneus fracture and video. 7th Annual Institute for Foot & Ankle Studies, Mercy Medical Center, Baltimore, MD
- 4/3/2005 Indications for ring fixator. 7th Annual Institute for Foot & Ankle Studies, Mercy Medical Center, Baltimore, MD
- 10/20/2005 Frames and Fixators. DePuy and Orthofix, Annual Meeting of the Orthopaedic Foot Club, Charlotte, NC
- 8/4/2006 Japanese Study Group. Institute for Foot and Ankle, Mercy Hospital, Baltimore, MD
- 8/10/2006 External Fixator. DePuy Sponsored Workshop, Philadelphia, PA
- 4/13/2007 Ankle arthrodesis for salvage of large articular defects. Advanced Solutions for Foot & Ankle, St. Petersburg, FL
- 4/13/2007 Revision hindfoot correction. Advanced Solutions for Foot & Ankle, St. Petersburg, FL
- 4/13/2007 Tendon transfer for end-stage peroneal disease. Advanced Solutions for Foot & Ankle, St. Petersburg, FL
- 4/13/2007 Techniques for external fixation and Charcot reconstruction. Advanced Solutions for Foot & Ankle, St. Petersburg, FL
- 4/13/2007 Deltoid injury and reconstruction. Advanced Solutions for Foot & Ankle, St. Petersburg, FL
- 4/14/2007 Percutaneous methods of treatment of calcaneus fracture. Advanced Solutions for Foot & Ankle, St. Petersburg, FL
- 4/14/2007 Management of the infected ankle. Advanced Solutions for Foot & Ankle, St. Petersburg, FL
- 4/14/2007 Intra-articular distal tibia fractures: Acute and chronic reconstruction. Case presentations and audience questions, Advanced Solutions for Foot & Ankle, St. Petersburg, FL
- 4/14/2007 Distraction ankle arthroplasty. Advanced Solutions for Foot & Ankle, St. Petersburg, FL
- 4/28/2007 Discussion of bunionectomy/metatarsal osteotomy. 8th Annual Orthopaedic Foot & Ankle Fellows Learning Center, Mercy Medical Center, Baltimore, MD
- 4/29/2007 Indications for ring fixator: lecture and video. 8th Annual Orthopaedic Foot & Ankle Fellows Learning Center, Mercy Medical Center, Baltimore, MD

- 9/27/2007 Effective utilization of external fixation in the lower extremity: Diabetic limb salvage. Pre-Conference Exfix Workshop, Georgetown University Hospital, Washington, DC
- 1/26/2008 Discussion of bunionectomy and metatarsal osteotomy. 9th Annual Orthopaedic Foot and Ankle Fellows Learning Center, Mercy Medical Center, Baltimore, MD
- 1/27/2008 Indications for ring fixator (lecture and video). 9th Annual Orthopaedic Foot and Ankle Fellows Learning Center, Mercy Medical Center, Baltimore, MD
- 2/22/2008 FDL transfer/lateral column (live demo). Faculty Instructor, Advanced Solutions for Foot and Ankle, Phoenix, AZ
- 2/23/2008 Peroneal tendon (live demo). Faculty Instructor, Advanced Solutions for Foot and Ankle, Phoenix, AZ
- 11/1/2012 Lateral Ankle Replacement Cadaveric Workshop. Foot and Ankle Society Annual Meeting, Baltimore, MD

Mentoring (pre- and post-doctoral)

Advisees:

- 1990-Present Mentor dance science students annually; Dance Science Externship Program, Goucher College, Baltimore, MD
- 1990- Present Mentor orthopaedic residents in foot and ankle studies, assist in the development of curriculum, writing evaluations, teaching in operating room, teaching in labs, office, lectures, hospital, journal club, OITE prep, conferences, research projects, presentation coaching, writing projects, IRB/Grants, Maintaining accreditation AGME; Union Memorial Hospital, Baltimore, MD
- 1990-Present Mentor/ Associate Director and then Director of foot and ankle fellows, assist in the development of curriculum, write evaluations, teaching in operating room, teaching in labs, office, lectures, hospital, journal club, OITE prep, conferences, research projects, presentation coaching, writing projects, IRB/ Grants, Maintaining accreditation AGME; Foot and Ankle Departmental Fellowship Program, Union Memorial Hospital, Baltimore, MD
- 1993-Present Mentor students in developing the Airlimb Instructional Video (1998), Sliding Graft Technique (1999), Peroneal Tendon Groove Deepening Technique (2009); Art as Applied to Medicine Program, Johns Hopkins School of Medicine, Baltimore, MD
- 1994-Present Mentor/Teacher in clinic setting, operating room and biomechanics lab for high school, college, graduate students and medical students ; Johns Hopkins University, Goucher, Towson University, Loyola College, University of Maryland, Georgetown University, Duke, Bucknell, Tufts, Baltimore, MD
- 1994-Present Provide scholarships and externships for students interested in the health sciences; Schon Scholarship in Dance Science, Goucher College, Baltimore, MD
- 1994-Present Mentor and lecturer for PMR residents in office/clinic setting; Johns Hopkins
2001 Project Mentor for the Claw; Engineering Design Class, Johns Hopkins University, Baltimore, MD
- 2001 Project Mentor for The Jig; Engineering Design Class, Johns Hopkins University, Baltimore, MD
- 2005-Present Reviewer, Consultant, Mentor and Project Sponsor; Biomedical Engineering Design Class, Johns Hopkins University, Baltimore, MD
- 2008-Present Mentor for orthopaedic residents Assist in the development of curriculum, writing evaluations, teaching in the operating room, office, hospital, lectures, journal club, OITE prep, research projects, presentation coaching, writing projects, IRB/ Grants, conferences, meetings; Department of foot and Ankle Studies, Johns Hopkins University, Baltimore, MD

- 2008-2011 Project Mentor; Biomedical Engineering Design Class, Johns Hopkins University, Baltimore, MD
- 2009-Present Lecturer for students, the lower extremity anatomy and biomechanics; Biomedical Engineering and Design Class, Johns Hopkins University, Baltimore, MD
- 2009-Present Lecturer for students; Biomechanics Class, Johns Hopkins University, Baltimore, MD
- 2009-Present Lecturer for students; Inventions Design Clas, Johns Hopkins Baltimore, MD
- 2009 Mentor, Peroneal Tendon Groove Deepening Technique, student art project; Art as Applied to Medicine Program, Johns Hopkins School of Medicine, Baltimore, MD
- 2009 Mentor/Sponsor, Stem Cell Immobilization for Orthopaedic Implant, senior design project, awarded Second Place, Center for Bioengineering Innovation and Design 2009 Design Day; Biomedical Engineering Class, Johns Hopkins University, Baltimore, MD
- 2009 Mentor/Sponsor, Stem Cell Suture, design project, Awarded First Place, Center for Bioengineering Innovation and Design 2009 Design Day; Biomedical Engineering Class, Johns Hopkins University, Baltimore, MD
- 2010 Mentor/Sponsor, Stem Cell Bearing Surgical Ointment, senior design project; Biomedical Engineering Class, Johns Hopkins University, Baltimore, MD
- 2010 Mentor/Sponsor, Intelligent Drill, design project, Awarded Second Place, Center for Bioengineering Innovation and Design 2010 Design Day, Awarded Third Place Honors in the undergraduate division of the 2010 Collegiate Inventors Competition; Biomedical Engineering Class, Johns Hopikins University, Baltimore, MD
- 2011 Mentor, Airlimb: Design Project; Orthopaedic Biomechanics, Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2011 Mentor/Sponsor, Third World Prosthesis Leg, design project; Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2011 Mentor/Sponsor, Immediate Post Op Prosthesis, design project; Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2011 Mentor/ Sponsor, Screw Head and Driver Modifications for High Torques, design project; Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2011 Mentor/Sponsor, Stem Cell Therapy for Soft Tissue Defects, design project; Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2011 Mentor/Sponsor, Cell Therapeutic Suture Anchor, design project; Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2011-2012 Advisor, Novel Method to Reduce Risk of Cardiovascular Events, design project; Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2011-2013 Mentor, Avitus Harvester (formerly BOSS Harvester): Consultation and cadaver testing of prototype device for minimally invasive bone graft harvesting, design project; Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2012-2014 Mentor/Sponsor, Instalimb: Prosthesis for the Developing World, design projet; Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2013-2014 Physician Mentor, Intellegent Drill Simulation Training Tool for Orthopedic Applications, design project; Biomedical Engineering, University of Maryland, College Park, MD
- 2013-2014 Physician Mentor, Ankle Mark: A Quantitative Ankle Health Tracking System, design project; Biomedical Engineering, University of Maryland, College Park, MD
- 2013-2014 Advisor, Osteochondral Lesion Repair Hybrid Construct, design project; Biomedical Engineering, University of Maryland, College Park, MD
- 2013-2014 Advisor, Necrotic Tissue Excisional Concepts, The Wound Mend System, a Platform for Chronic Wound Healing, design project; Biomedical Engineering, Johns Hopkins University, Baltimore, MD

- 2014-2015 Mentor/Sponsor, Tenoslice, design project; Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2014-2015 Mentor, Simulator for teaching contraceptive implantation in the arm to non-physicians, design project; Biomedical Engineering, Johns Hopkins University, Baltimore, MD

Educational Extramural

CURRENT

- 2012-2014 Restricted Fellowship Grant
A12-ENUS-GR-363
Smith & Nephew Advanced Surgical Devices
\$25,000
Role: Foot & Ankle Fellowship Program Director; PI: Notes: Funds for support of the foot and ankle fellowship academic year 2012-2013
- 2012-2014 Omega Fellowship Grant
000735
Omega
\$30,000
Role: Foot & Ankle Fellowship Program Director; PI: Notes: Funds for support of the foot and ankle fellowship academic year 2012-2013

PREVIOUS

- 2006-2007 Johnson & Johnson Co. Educational Grant
DePuy
\$30,000
Role: Foot & Ankle Fellowship Program Director; PI: Notes: Funds for support of the foot and ankle fellowship academic year 2006-2007
- 2008- 2010 Johnson & Johnson Co. Educational Grant for International Fellowship
DePuy
\$57,092
Role: PI: 50%
- 2010-11 Omega Fellowship Grant
000435
Omega
\$36,250
Role: Foot & Ankle Fellowship Program Director; PI: Notes: Funds for support of the foot and ankle fellowship academic year 2010-2011

CLINICAL ACTIVITIES

Certification

Medical, other state/government licensure

3/14/1990-2017	Maryland Medical License, D0039759
1989-1990	Texas State Medical License
4/2/86-1991	New York Medical License, 165785-1
1991-2000	New York Medical License, inactive
2001- 2019	New York Medical License, 165785-1

Boards, other specialty certification

2012	American Board of Orthopaedic Surgery Re-certification
2004	American Board of Orthopaedic Surgery Re-certification
1993	American Board of Orthopaedic Surgery Certification

Clinical Extramural Funding

CURRENT

2009-Present	Prospective, Randomized, Controlled, Multi-Center, Pivotal Human Clinical Trial to Evaluate the Safety and Effectiveness of GEM OS1 Bone Graft Compared to Autologous Bone Graft as a Bone Regeneration Device in Foot and Ankle Fusions Biomimetic Therapeutics Role: PI at JHU site; Notes: Funded study under contract based on per patient enrollment
2010- Present	Prospective study of DeNovo Natural Tissue Graft for Treatment of Cartilage Defects of the Talus 2010-250 Role: PI: Notes: Investigator initiated study
2010- Present	Treatment of Cartilage Defects of the Talus with DeNovo Natural Tissue Graft 2010-200 Role: PI: Notes: Investigator initiated study
2011- Present	Post Market, Longitudinal Data Collection Study of Articular Cartilage Lesions in the Ankle Treated with DeNovo NT Natural Tissue Graft 2012-467 Zimmer Role: PI:

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

1990-2012	Coordinator, Annual Dance Medicine Symposium, Goucher College, Towson, MD
1990- Present	Consultant to Dance Department, Goucher College, Towson, MD
1992-Present	Baltimore City and Med Chi Society Performing Arts Committee, Baltimore, MD
1994-Present	Union Memorial Hospital Quality Assurance Committee, Union Memorial Hospital, Baltimore, MD
1994-Present	Performance Improvement Committee, Orthopaedic Department, Union Memorial Hospital, Baltimore, MD
1995-Present	Surgical Policy Committee, Union Memorial Hospital, Baltimore, MD
1995-1998	Post Graduate Testing Committee, AOFAS
1995-1998	Sports Medicine Committee, AOFAS
1997-2000	Fellowship Training Committee, AOFAS
1999-2005	Foot & Ankle Program Sub-Committee, AAOS
2002-2014	Corporate Relations Committee, OREF

2003-2011	Membership Committee, AOFAS
2005-Present	Co-Founder, Orthobiologic Lab, Union Memorial Hospital, Baltimore, MD
2005-Present	Reviewer and consultant, BioMedical Engineering Design Class, Johns Hopkins University, Baltimore, MD
2014-Present	Faculty Literati, University of Maryland Fischell Department of Bioengineering, Baltimore, MD

Editorial Activities

Editorial Board Appointments

2002-2005	Associate editor, Foot and Ankle International
2005-2010	Assistant editor, Foot and Ankle International

Journal Peer Review Activities

1996	Reviewer, Physician and Sports Medicine
1999-Present	Reviewer, American Journal of Orthopaedics
2003-2010	Reviewer, Journal of Bone and Joint Surgery
2013-Present	Reviewer, Orthopaedic Knowledge Online Journal

Advisory Committees, Review Groups/ Study Sections

1990-Present	Consultant, Dance Medicine and Injuries; Goucher College, Towson University, Morgan College, Baltimore School for the Arts, Peabody Institute, Baltimore, MD
1990-Present	Coordinator, Annual Dance Medicine Symposium; Goucher College, Towson, MD
1998-Present	Consultant, Sports Medicine; Georgetown University, Washington, DC
1999-2008	Consultant, DePuy Ace, Johnson & Johnson Co.
2001-2008	Consultant, Medtronic Specialists Bureau
2003	Consensus meeting, post-operative management of the lower extremity amputee, Clinical Standards of Practice, Union Memorial Hospital, Baltimore, MD
2005-2012	Scientific Advisory Board, Nexa Orthopaedics/Tornier

Professional Societies

1990-Present	American Orthopaedic Foot and Ankle Society, Various committee memberships, Treasurer (2009-11), Vice President (2011-12), President (2012-13) Past President (2013-15)
1990-Present	Maryland Orthopaedic Association, member
1990-Present	American Academy of Orthopaedic Surgeons, Fellow, member, Communications Cabinet
1990-Present	Baltimore City & Med Chi Society Performing Arts Committee, member
1991-2011	Maryland Society for Rheumatic Diseases, member
1993-2010	International Association for Dance Medicine and Science, member
1993-2010	Maryland Council for Dance, member
1995-1998	Post Graduate Testing Committee, AOFAS, member
1995-1998	Sports Medicine Committee, AOFAS, member
1996-2009	American Diabetes Association, member
1997-2010	International Association for the Study of Pain, member
1998-2010	American Neuromodulation Society, member
1999-2005	Foot and Ankle Program Sub-Committee, AAOS, member
1999-Present	North American Foot and Ankle Association, member

2000-2009	Pedorthic Footwear Association, member
2000-Present	Orthopaedic Foot Club, President (2011-2013)
2001-2010	International Functional Electrical Stimulation, member
2001-2009	International Society for Prosthetics & Orthotics, member
2001-Present	American College of Surgeons, Fellow, member
2002-2010	Orthopaedic Rehabilitation Association, member

Conference Organizer, Session Chair

1990	Coordinator and moderator, Lower extremity problems in dancers. 1 st Annual Dance Symposium, Goucher College, Towson, MD
3/21/1992	Coordinator and moderator, Lower extremity problems in dancers. 2 nd Annual Dance Symposium, Goucher College, Towson, MD
3/1993	Coordinator and moderator, Lower extremity problems in dancers. 3 rd Annual Dance Symposium, Goucher College, Towson, MD
4/1994	Coordinator and moderator, Lower extremity problems in dancers. 4 th Annual Dance Medicine Symposium, Goucher College, Towson, MD
3/11/1995	Coordinator and moderator, Lower extremity problems in dancers. 5 th Annual Dance Medicine Symposium, Goucher College, Towson, MD
3/9/1996	Coordinator and moderator, Lower extremity problems in dancers. 6 th Annual Dance Medicine Symposium, Goucher College, Towson, MD
3/2/1997	Coordinator and moderator, Lower extremity problems in dancers. 7 th Annual Dance Medicine Symposium, Goucher College, Towson, MD
2001	Co-chairman, Foot and Ankle Orthopaedic Learning Center Course. AAOS, Chicago, IL
2002	Chairman, Foot and Ankle Orthopaedic Learning Center Course. AAOS, Chicago, IL
2004	Co-sponsor, Annual North American Foot and Ankle Association Meeting, Baltimore, MD
1/27/2005	Coordinator, Union Memorial and Mercy Hospital Foot and Ankle Fellowship Reunion, Snowbird, Utah
4/20/2007	Co-course director, The latest techniques in foot and ankle surgery. Practical Anatomy & Surgical Education, Saint Louis University, St. Louis, MO
5/9/2008	Co-course director, The latest techniques in foot and ankle surgery. Practical Anatomy & Surgical Education, Saint Louis University, St. Louis, MO
11/1/2012	President and coordinator, Annual Foot Club Meeting, Baltimore, MD
3/19/2013	President and presenter, AAOS/AOFAS Annual Winter Meeting, Chicago, IL
7/16/2013	President and presenter, AOFAS Annual Summer Meeting, Hollywood, FL

Consultantships

1990-Present	Consultant, Dance Medicine & Injuries, Goucher College, Towson University, Baltimore School for the Arts, Peabody Institute, Baltimore, MD
1990-Present	Coordinator, Annual Medicine Symposium, Goucher College, Baltimore, MD
1998-Present	Consultant, Sports Medicine, Georgetown University, Washington, DC
1999-2009	Consultant, DePuy Ace, Johnson & Johnson Co.
2000- Present	Consultant, DC United Soccer, Washington DC
2000-Present	Consultant, Baltimore Blast Soccer, Baltimore, MD
2006-Present	Consultant, Washington Nationals Baseball, Washington, DC
2000-Present	Consultant, Washington Capitals Hockey, Washington, DC
2001-2006	Consultant, Medtronic Specialists Bureau
2003-2008	Consultant, Snyder Center of Pain Pharmacology
2005-2007	Consultant, Nexa Orthopedics Scientific Advisory Board
2006-Present	Consultant, Zimmer
2007- 2012	Consultant, Tornier Scientific Advisory Board, Lower Extremity

2007-Present	Consultant, Biomet
2008-2010	Consultant, Mimedx
2012-2014	Consultant, Biomimetic
2012-Present	Consultant, Guidepoint Global
2012-Present	Consultant, Gershon Lehrman Group
2012-Present	Consultant, Royer Biomedical
2013	Consultant/Panel Member, 2013 Peer reviewed Orthopaedic Research Program

RECOGNITION

Awards, Honors

1983	Alpha Omega Alpha, Albany Medical College
1984	Senior Recognition Award, Albany Medical College
1988	American Orthopaedics Scholarship, Synthes, Inc.
1989	Fraunthal Travel Scholarship, Hospital for Joint Disease Orthopedic Institute
1991	Humana Award for Excellence, AOFAS Annual Research Award, AOFAS
1995	Selected as one of nine orthopaedic "Top Docs" by Baltimore Magazine's Survey of 1,700 doctors, nurses and patient groups, Baltimore Magazine
1996	Roger A. Mann Award for Clinical Research, AOFAS
1997	Roger A. Mann Award for Clinical Research, AOFAS
1999	"Best of Society" based on a peer review process, Member societies of the AAOS Council of Musculoskeletal Specialty Societies
2000	Second-Place Award for Best Paper, The MOA 2000 Scientific Program
9/25/2000	First-Place, 5 th Congress of the Balkan Military Medical Committee, Ankara-Turkey
2001-2003	Selection, AAOS sponsored juried art exhibit and e-motion Pictures: An exhibition of orthopaedics in art traveling exhibit, San Francisco, Washington DC, Chicago, Memphis, New York and Iowa City
2002-2005	AMA Physician Recognition Award in Continuing Medical Education, American Medical Association
2003	Health Care Hero Honoree for Advances in Health Care, The Daily Record, Baltimore, MD
2004	Goldner Award, AOFAS Summer Meeting, Seattle, WA
2005	Resident Writer's Award Competition: Second-Place, AAOS Annual Meeting
2/23/2005	"Best of Society" Poster Award, Council of Musculoskeletal Specialty Societies, Winter Meeting, Washington, DC
2005-2006	Best Doctors in America Recognition
2006	Jahss Visiting Professor, Hospital for Joint Diseases, New York University Orthopedic Institute, New York, NY
2006	Gould Visiting Professor, University of Vermont, Burlington, VT
7/2006	Poster Award: First Place, AOFAS Summer Meeting, Torrey Pines
2007	Asia Pacific Orthopaedic Association (APOA) research award, 15 th Triennial AOPA Congress, Seoul, Korea
2007-2015	"Top Docs" by Baltimore Magazine's Survey of doctors, nurses, and patient groups, Baltimore Magazine, Baltimore, MD
2008	Selection, AAOS sponsored juried art exhibit and e-motion Pictures: An exhibition of orthopaedics in art, San Francisco, CA
2008	AOFAS Goldner Award, Annual Summer Meeting of the AOFAS, Denver, CO
2009	The Rose Lectureship, Presbyterian Hospital, Hospital for Special Surgery New York, NY
2010	Todot Honoree for Commitment to Education and Community, Krieger Schechter Day School, Baltimore, MD

- 2010 15th Annual Gerald S. Laros Memorial Visiting Professorship, University of Chicago
Chicago, IL
- 2011 The Golden Apple Award for Excellence in Orthopaedic Teaching, Union Memorial
Hospital, Department of Orthopaedics, Baltimore, MD
- 2011 Roger H. Michael Research Award for Outstanding Achievement in Orthopaedic
Research, Union Memorial Hospital, Department of Orthopaedic Surgery Baltimore,
MD
- 2012 “Top Doctors”, US News and World Report
- 2012 Roger H. Michael Research Award for Outstanding Achievement in Orthopaedic
Research, MedStar Union Memorial Hospital, Department of Orthopaedic Surgery,
Baltimore, MD
- 2012 1st place winner of the Clinical Research Award, Meeting of the Maryland
Orthopaedic Association (MOA), Baltimore, MD
- 2012 ORS/OREF Travel Award in Orthopaedic Research Translation, Annual meeting of
the Orthopaedic Research Society (ORS), San Francisco, CA
- 2012 Professor’s Award for Excellence in Teaching, Johns Hopkins Medical Institute,
Johns Hopkins University, Baltimore, MD
- 2015 Johns Hopkins University BME Clinical Innovator Award, Baltimore, M m
- 2015-2016 “Top Docs” by Baltimore Magazine’s Survery of doctors, nurses, and patient groups,
Baltimore Magazine, Baltimore, MD

Invited Talks

- 10/26/1990 Heel pain entrapment neuropathy and double crush. 1990 Scientific Program, Hospital for
Joint Diseases Orthopaedic Institute, New York, NY
- 11/7/1990 Nerve entrapment syndromes in the foot and ankle. Maryland Society of Physical Medicine
and Rehabilitation, Baltimore, MD
- 4/13/1991 Leg, ankle, and foot problems in dancers. Coordinator and moderator, Dynamics of Dance
Injuries Symposium, Goucher College, Towson, MD
- 3/21/1992 Lower extremity problems in dancers. Coordinator, moderator and lecturer, 2nd Annual Dance
Symposium, Goucher College, Towson, MD
- 3/24/1992 Hindfoot pathology. Staff lecture, The Good Samaritan Hospital, Baltimore, MD
- 4/5/1992 Orthopaedic perspectives on diabetic foot and ankle problems. Prescription Footwear
Association, Beltsville, MD
- 4/16/1992 Foot and ankle injuries in dancers. Faculty Lecture, Bennett Institute, Baltimore, MD
- 1993 Evaluation and treatment of major lower extremity work injuries. Workman’s Compensation
Panel, Towson, MD
- 3/12/1993 Salvage of the mangled and crushed lower extremity. NAON Workshop, Baltimore, MD
- 3/1993 Coordinator and lecturer, 3rd Annual Dance Symposium, Goucher College, Towson, MD
- 1993 Dance injuries and screening process. Royal Academy of Dance, Peabody Institute, Towson,
MD
- 6/18/1993 Results of collegiate dance screenings. International Association for Dance Medicine &
Science June Meeting, New York, NY
- 4/1994 Coordinator, moderator, and lecturer, 4th Annual Dance Medicine Symposium, Goucher
College, Towson, MD
- 11/18/1994 Neuropathic midfoot fusion with a plantar plate: A modified technique. Annual Alumni
Conference, Thomas Jefferson Orthopaedic Society, Philadelphia, PA
- 3/11/1995 Coordinator, moderator and lecturer, 5th Annual Dance Medicine Symposium, Goucher
College, Towson, MD

- 3/25/1995 The foot and ankle in sports. Maryland Athletic Trainers Annual (MATA) Meeting, Westminster, MD
- 5/1995 Foot and ankle problems: Heel to toe. Maryland Family Practice Annual Meeting, Ocean City, MD
- 5/19/1995 Neuropathic midfoot treatment with plantar plate. Hospital for Joint Diseases Orthopaedic Institute Alumni Meeting, New York, NY
- 6/12/1995 Profile of the collegiate dancer. International Association for Dance Medicine and Science/IAMA Conference on Arts Medicine and Therapy 5th Annual Meeting, Tel-Aviv, Israel
- 6/13/1995 A comparative biomechanical analysis of pointe shoes under static and fatigue loading conditions. International Association for Dance Medicine and Science/IAMA Conference on Arts Medicine and Therapy 5th Annual Meeting, Tel-Aviv, Israel
- 6/14/1995 Pointe shoe preference in collegiate dancers. International Association for Dance Medicine and Science/IAMA Conference on Arts Medicine and Therapy 5th Annual Meeting, Tel-Aviv, Israel
- 7/3/1995 Lower extremity injuries in the workplace. Southern Association of Workers' Compensation Administrators, Baltimore, MD
- 3/9/1996 Coordinator, moderator and lecturer, 6th Annual Dance Medicine Symposium, Goucher College, Towson, MD
- 3/10/1996 Foot and ankle injuries in dancers. MATA Sports Medicine Symposium, Fair Lakes, VA
- 5/16/1996 Common foot problems: What's in and what's out. Southern Medical Association, Baltimore, MD
- 5/18/1996 Lower extremity trauma and RSD. American Bar Association's 1996 Workers' Compensation Regional Conference, Columbia, MD
- 8/17/1996 Adult foot disorders. 14th Annual Clinical Symposium, National Association of Orthopaedic Technologists, Baltimore, MD
- 3/2/1997 Coordinator, moderator, and lecturer, 7th Annual Dance Medicine Symposium, Goucher College, Towson, MD
- 7/27/1997 Assessment and management of dancer's injuries. Maryland Athletic Trainer's Association, Laurel, MD
- 8/15/1997 The rocker bottom foot. Lecture to the Israeli Orthopaedic Foot & Ankle Society (IOFAS), Tel Hashomer, Israel
- 8/15/1997 Salvage for chronic heel pain plantar fasciotomy, nerve release, neurectomy, vein wrap and nerve stimulator. to the Israeli Orthopaedic Foot & Ankle Society (IOFAS), Tel Hashomer, Israel
- 8/15/1997 Ballet dancers' injuries: assessment and management. to the Israeli Orthopaedic Foot & Ankle Society (IOFAS), Tel Hashomer, Israel
- 2/14/1998 Orthopaedic evaluation and surgical treatment of foot and ankle injuries in dancers. Boston Combined Sections Meeting, American Physical Therapy Association, Boston, MA
- 3/7/1998 Evaluating the lower kinetic chain in dancers. Dance Medicine, 8th Annual Symposium, Towson, MD
- 4/23/1998 Overuse syndromes among aerobic dance participants. Pennsylvania Orthopaedic Society, Orlando, FL
- 6/9/1998 Peripheral nerve stimulation for intractable pain. Bethesda Spinal Research Foundation Lecture, Bethesda, MD
- 8/30/1998 A new fixation method for fibula fractures in elderly patients: A biomechanical evaluation with clinical correlation. Smith and Nephew Residents' Conference, Memphis, TN
- 8/24/1998 Immediate post-op prosthesis for below-knee amputees. Miller Orthopaedic Clinic, Carolinas Medical Center, Charlotte, NC
- 9/1998 Immediate post-operative prosthesis for below-knee amputees. NovaCare, Sabolich Center, Oklahoma City, OK

- 9/16/1998 Charcot midfoot. COMFAS Meeting, Venice, Italy
- 9/17/1998 Management of severe intractable lower extremity pain with peripheral nerve vein wrapping or peripheral nerve stimulation. COMFAS Meeting, Venice, Italy \
- 9/18/1998 Preliminary results of peripheral nerve stimulation. International Neuromodulation Society Meeting, Lucerne, SwitzerlandI
- 9/28/1998 Immediate post-operative prosthesis for below-knee amputees. NovaCare Prosthetic Meeting, Phoenix, AZ
- 10/22/1998 Immediate post-operative prosthesis for below-knee amputees. NovaCare Prosthetic Meeting, Orlando, FL
- 10/22/1998 Lower extremity amputations: Surgical considerations. NovaCare Prosthetic Meeting, Orlando, FL
- 10/23/1998 Triple arthrodesis. Hospital for Joint Disease Orthopaedic Institute (HJDOI) Alumni Scientific Meeting, New York, NY
- 10/23/1998 Isolated subtalar fusion. Hospital for Joint Disease Orthopaedic Institute (HJDOI) Alumni Scientific Meeting, New York, NY
- 1998 An extensive plantar exposure of the midfoot for treatment of the rocker-bottom deformity. Orthopaedic Clinics Society, Kansas City, KS
- 1/26/1999 Pitfalls & advances in lower extremity amputations. University of Texas Medical Branch, Shriner's Hospital Conference, Galveston, TX
- 3/5/1999 Infections of the foot and ankle. Guest speaker to the AMA Student Section and the Student Osteopathic Surgery Association, University of Health Sciences, Kansas City, MI
- 3/5/1999 Nerve disorders of the foot and ankle. Guest speaker, AMA Student Section and the Student Osteopathic Surgery Association, University of Health Sciences, Kansas City, MI
- 3/5/1999 Peripheral neuroanatomy and technique for peripheral nerve stimulation. Guest speaker, AMA Student Section and the Student Osteopathic Surgery Association, University of Health Sciences, Kansas City, MI
- 3/7/1999 Overview of foot and ankle research in dance at Union Memorial Hospital. 9th Annual Dance Symposium, Goucher College, Baltimore, MD
- 3/13/1999 Universal immediate or early post-op prosthesis for below-knee amputees. Union Memorial Hospital Foot and Ankle Fellowship Reunion Weekend, Telluride, CO
- 4/18/1999 Transpedal multiplanar wedge osteotomy. SICOT Meeting, Sydney, Australia
- 4/18/1999 Subtalar arthrodesis. SICOT Meeting, Sydney, Australia
- 4/18/1999 Chronic nerve pain. SICOT Meeting, Sydney, Australia
- 4/18/1999 Pedobarographic analysis of releve. SICOT Meeting, Sydney, Australia
- 4/21/1999 Reconstruction for rheumatologic disorders of the foot and ankle. D.C. Rheumatism Society Lecture, Washington, DC
- 6/6/1999 Charcot foot management. Meeting & Exposition of the American Physical Therapy Association, Washington, DC
- 6/6/1999 Treatment of the diabetic foot. Meeting & Exposition of the American Physical Therapy Association, Washington, DC
- 6/27/1999 Overuse injuries among step aerobics dance participants. Performing Arts Medicine Association, Aspen, CO
- 7/14/1999 The Airlimb an early or immediate post-operative prosthesis. INTERBOR Meeting, Boston, MA
- 7/14/1999 Transtibial amputation: Surgical technique (video). INTERBOR Meeting, Boston, MA
- 9/30/1999 Reconstruction for Charcot foot & ankle. Challenges in Foot and Ankle Reconstruction Course, Inova Institute of Research & Education, Fairfax, VA
- 9/30/1999 Advances in rheumatic foot & ankle surgery: The rheumatoid forefoot. Challenges in Foot and Ankle Reconstruction Course, Inova Institute of Research & Education, Fairfax, VA
- 10/8/1999 Charcot Foot & Ankle. Medlantic Teaching Seminar, Baltimore, MD

- 10/11/1999 Controversies in the surgical management of the diabetic foot. (Symposium) Charcot reconstructions. 85th Annual Clinical Congress of the American College of Surgeons, San Francisco, CA
- 10/12/1999 Salvage for complex foot & ankle trauma. Orthopaedic Conference, San Francisco General, San Francisco, CA
- 10/16/1999 Charcot foot & ankle. Greek Orthopaedic Society, Athens, Greece
- 10/16/1999 Post operative treatment of amputees. Greek Orthopaedic Society, Athens, Greece
- 10/17/1999 Charcot reconstructions. National Continuing Medical Education, Tel Aviv, Israel
- 10/18/1999 Reconstructions of complex foot & ankle trauma. Ramban Hospital, Haifa, Israel
- 10/18/1999 Surgical perspective for transtibial amputees. Ramban Hospital, Haifa, Israel
- 10/18/1999 Neurostimulator & nerve reconstruction for chronic nerve pain. Ramban Hospital, Haifa, Israel
- 10/22/1999 Surgical considerations for transtibial amputations. Northwestern University Orthotics & Prosthetic Program, Chicago, IL
- 12/4/1999 Charcot foot and ankle. 7th Annual International Symposium for Foot Surgery, Vienna, Austria
- 12/4/1999 Complex foot & ankle cases. 7th Annual International Symposium for Foot Surgery, Vienna, Austria
- 12/1999 MRI Imaging of superior peroneal retinacular injuries. Radiologic Society of North America
- 12/10/1999 Surgical considerations for transtibial amputations. Newington Orthotics & Prosthetics Program, Newington, CT
- 4/25/2000 Application of ring external fixator. Foot and Ankle Symposium, Melbourne, Australia
- 4/25/2000 Charcot reconstruction. Foot and Ankle Symposium, Melbourne, Australia
- 4/26/2000 Treatment and advances in peripheral neurostimulation: Retrospective and prospective results of peripheral nerve stimulator for chronic lower extremity neuralgia. George Hospital Campus Foot and Ankle Service, Foot and Ankle Symposium, Sydney, Australia
- 4/28/2000 Tarsal tunnel syndrome. St. George Hospital Campus Foot and Ankle Service, Foot and Ankle Symposium, Sydney, Australia
- 4/28/2000 Recent advances and treatment of chronic lower extremity neuralgia. St. George Hospital Campus Foot and Ankle Service, Foot and Ankle Symposium, Sydney, Australia
- 4/28/2000 Nerve entrapment and conditions in the athlete. St. George Hospital Campus Foot and Ankle Service, Foot and Ankle Symposium, Sydney, Australia
- 4/29/2000 Recent advances in the management of diabetic feet. St George Hospital Campus Foot and Ankle Service, Foot and Ankle Symposium, Sydney, Australia
- 4/29/2000 Total contact casting. St. George Hospital Campus Foot and Ankle Service, Foot and Ankle Symposium, Sydney, Australia
- 5/7/2000 Charcot foot and ankle: Classification and reconstruction. American College of Foot and Ankle Surgeons, New York, NY
- 5/20/2000 Postoperative management of transtibial amputation. National Association of Orthopaedic Nurses, Denver, CO
- 5/31/2000 Mobilization following forefoot surgery reasoning for special shoes in post-operative mobilization. Orthopaedic + Reha-Technik World Congress, Leipzig, Germany
- 5/31/2000 Influence of the shoe on weight relief for the foot. Orthopaedic + Reha-Technik World Congress, Leipzig, Germany
- 5/31/2000 Immediate postoperative prosthesis protocol following transtibial amputation-a prospective study. Orthopaedic + Reha-Technik World Congress, Leipzig, Germany
- 6/2000 Postoperative care of transtibial amputees. Georgetown Medical Center, Washington, DC
- 6/15/2000 Surgery for the amputee. EFAS 3rd Congress, Christian, Sweden
- 6/18/2000 A prospective analysis of peripheral nerve stimulation for intractable lower extremity nerve pain. IFESS 2000 Conference, Aalborg, Denmark

- 9/6/2000 Evaluation of a prefabricated adjustable postoperative prosthesis for transtibial amputees: A prospective clinical study. 2nd Orthopaedic Department, 401 General Military of Athens, Athens, Greece
- 9/14/2000 Prospective study on IPOP for transtibial amputations. Balkan's Military Congress, Ankara, Turkey
- 9/15/2000 The use of the immediate postoperative prosthesis Airlimb type in the below knee amputees. 2nd Orthopaedic Department, 401 General Military of Athens, Athens, Greece
- 10/6/2000 A prospective analysis of peripheral nerve stimulation for intractable lower extremity nerve pain. The Alumni Association of NYUHJD 2000 Scientific Program and the Sir Robert Jones Lecture, New York, NY
- 3/14/2001 Implantable electric bone stimulation for foot and ankle reconstruction (video). Foot & Ankle Alumnus Meeting, Telluride, CO
- 5/11/2001 Chronic, symptomatic os navicular synchondrosis injuries. North American Foot and Ankle Association Meeting, Louisville, KY
- 5/18/2001 Charcot reconstruction. Orthopaedic Foot Club Meeting, Kalamazoo, MI
- 6/6/2001 The results of treatment of Stage II posterior tibial tendon rupture with flexor digitorum longus tendon transfer and calcaneal osteotomy. EFFORT 5th Congress of the European Federation of National Associations of Orthopaedics and Traumatology, Rhodes, Greece
- 6/7/2001 A prospective clinical study of transtibial amputees using a prefabricated adjustable postoperative prosthesis and early controlled ambulation. EFFORT 5th Congress of the European Federation of National Associations of Orthopaedics and Traumatology, Rhodes, Greece
- 6/7/2001 Biomechanical assessment of a prefabricated pneumatic adjustable postoperative prosthesis and a rigid total contact prosthetic. EFFORT 5th Congress of the European Federation of National Associations of Orthopaedics and Traumatology, Rhodes, Greece
- 6/22/2001 A prospective clinical study of transtibial amputees using a prefabricated adjustable postoperative prosthesis and early controlled ambulation. Annual Conference and Exposition of the American Physical Therapy Association, Anaheim, CA
- 7/2/2001 Biomechanical assessment of a prefabricated pneumatic adjustable postoperative prosthesis and a rigid total contact prosthetic. The 10th World Congress of the International Society for Prosthetics and Orthotics, Glasgow, Scotland
- 7/2/2011 Efficacy of a new pressure-sensitive alarm for clinical use in orthopaedics. The 10th World Congress of the International Society for Prosthetics and Orthotics, Glasgow, Scotland
- 7/2/2001 A prospective clinical study of transtibial amputees using a prefabricated adjustable postoperative prosthesis and early controlled ambulation. The 10th World Congress of the International Society for Prosthetics and Orthotics, Glasgow, Scotland
- 7/2/2001 Biomechanical evaluation of the ability of casts and braces to immobilize the ankle and hindfoot. The 10th World Congress of the International Society for Prosthetics and Orthotics, Glasgow, Scotland
- 3/8/2002 Foot and ankle problems in dancers. Dance Medicine, Injury Recognition Treatment Prevention Course, Orlando, FL
- 3/21/2002 Surgical techniques for below knee amputation. Northwestern O&P Certificate Program, Rehab Institute of Chicago, Chicago, IL
- 4/19/2002 External Fixation for Salvage Reconstruction Surgery – A Retrospective Review. Orthopaedic Foot Club, Memphis, TN
- 11/19/2002 Complex Foot & Ankle Cases. The Wisconsin Foot and Ankle Club, Milwaukee, IL
- 11/18/2002 Charcot Neuropathy: Treatment and management of Charcot foot. Gunderson Lutheran Hospital, Medical Education Conference, Wisconsin Orthopaedic Foot & Ankle Club, Wisconsin, IL
- 3/30/2003 Surgery of the Charcot foot. 5th International Meeting of the Austrian Foot Society, Going, Austria

- 4/1/2003 Supplementary axial and inter-metatarsal k-wire fixation for Ludloff metatarsal osteotomy. 5th International Meeting of the Austrian Foot Society, Going, Austria
- 4/25/2003 Complex Charcot challenge. Orthopaedic Foot Club Meeting, Baltimore, MD
- 5/30/2003 The immediate pneumatic post-op prosthetic. American Academy of Orthotists and Prosthetists 2nd Clinical Standards of Practice Conference, Alexandria, VA
- 9/17/2003 Application of foot and ankle ring fixators. University of Iowa, Department of Orthopaedics, Iowa
- 9/19/2003 Ankle allograft. North American Foot & Ankle Association Annual Meeting, University of Iowa, Department of Orthopaedics, Iowa
- 9/20/2003 FDL transfer for chronic peroneal tendon ruptures. North American Foot & Ankle Association Annual Meeting, University of Iowa, Department of Orthopaedics, Iowa
- 9/20/2003 Charcot. North American Foot & Ankle Association Annual Meeting, University of Iowa, Department of Orthopaedics, Iowa
- 11/08/2003 Experiences with early fitting and alternative devices. ISPO Meeting, Zwolle, Netherlands
- 4/23/2004 Complex Charcot challenge. Orthopaedic Foot Club Meeting, Baltimore, MD
- 5/5/2004 Peroneal groove deepening Procedure. North American Foot and Ankle Association, Baltimore, MD
- 6/15/2003 A prospective analysis of an immediate postoperative prosthesis. EFAS 3rd Congress, Stockholm, Sweden
- 6/16/2003 A prospective analysis of peripheral nerve stimulation for intractable lower extremity nerve pain. EFAS EFAS 3rd Congress, Stockholm, Sweden
- 6/17/2003 A biomechanical analysis of an immediate postoperative prosthesis. EFAS 3rd Congress, Stockholm, Sweden
- 5/20/2004 Allograft ankle transplant. Orthopaedic Foot Club, Philadelphia PA
- 10/24/2004 The ankle in dance: An anatomic perspective. Annual Dance Medicine Symposium, Goucher College, Towson, MD
- 10/24/2004 The foot in motion: How the foot reacts to the rigors of dance. Goucher College Department of Dance, Towson, MD
- 12/12/2004 Treatment approach to Charcot. DePuy Clinical Concepts: External Fixation in the Lower Extremity, Chicago, IL
- 12/12/2004 Midfoot Charcot reconstruction. DePuy Clinical Concepts: External Fixation in the Lower Extremity, Chicago, IL
- 12/12/2004 Static vs. dynamic compression in Charcot management. DePuy Clinical Concepts: External Fixation in the Lower Extremity, Chicago, IL
- 12/12/2004 Application of midfoot Charcot frame. DePuy Clinical Concepts: External Fixation in the Lower Extremity, Chicago, IL
- 1/27/2005 Update on Foot and Ankle Research. Foot and Ankle Fellowship Reunion, Snowbird, Salt Lake City, Utah
- 10/21/2005 Adjuvant procedures for posterior tibial tendon dysfunction. Annual Meeting Orthopaedic Foot Club, Charlotte, NC
- 3/11/2006 External fixation for the salvage of severe lower extremity foot and ankle conditions. Japanese Orthopaedic Society Meeting, Yokohama, Japan
- 3/12/2006 Treatment of trauma cases with external fixation. Japanese Orthopaedic Society Meeting, Yokohama, Japan
- 5/12/2006 PTTD: Biomechanical perspective. NAFAA , Cleveland, OH
- 10/13/2006 Correction with distal osteotomy (Akin, Chevron). Nexa Orthopaedics, Napa Foot and Ankle Symposium, Napa, CA
- 10/13/2006 Anterior tibial tendon and FHL disorders. Nexa Orthopaedics, Napa Foot and Ankle Symposium, Napa, CA
- 10/13/2006 Stage 2 PTT dysfunction: Surgical options and indications including arthroereisis. Nexa Orthopaedics, Napa Foot and Ankle Symposium, Napa, CA

- 10/22/2006 Performing with Pain: A foot and ankle perspective. Performing Arts Committee and Goucher College Dance Department Program, Dance: A living art, Baltimore, MD
- 3/15/2007 Reconstruction of hindfoot deformity: Case presentations. Baltimore Alumni Foot and Ankle Meeting, Institute for Foot & Ankle Reconstruction at Mercy and Union Memorial Hospital, Steamboat, CO
- 3/16/2007 Processed bone marrow aspirate to augment complex fusions. Baltimore Alumni Foot and Ankle Meeting, Institute for Foot & Ankle Reconstruction at Mercy and Union Memorial Hospital; Steamboat, CO
- 5/18/2007 Ankle arthrodesis for salvage of large articular defects. Orthopaedic Foot Club, Pittsburgh, PA
- 6/16/2007 Surgical treatment of the diabetic foot and ankle: Ulcers, infection and Charcot. Yonsei Symposium, Yonsei University, Seoul, Korea
- 6/16/2007 Ankle Allograft. Yonsei Symposium, Yonsei University, Seoul, Korea
- 2/24/2008 The role of biologic agents in a foot and ankle practice. North American Foot & Ankle Association's 20th Annual Meeting, New Orleans, LA
- 6/20/2008 Sports injuries of the foot and ankle. Multiple lecture series. The Japanese Society for Surgery of the Foot Annual Meeting, Shinjuku-city, Tokyo, Japan
- 7/18/2008 Rheumatologic pathology of the foot and ankle. Rheumatic Foot Symposium, Colombian Society of Orthopaedic Surgery and Trauma (SCCOT), Armenia, Colombia
- 7/18/2008 Surgical treatment of the midfoot and forefoot. Rheumatic Foot Symposium, Colombian Society of Orthopaedic Surgery and Trauma (SCCOT), Armenia, Colombia
- 7/19/2008 Surgical treatment of the hindfoot and ankle. Rheumatic Foot Symposium, Colombian Society of Orthopaedic Surgery and Trauma (SCCOT), Armenia, Colombia
- 7/19/2008 Internal fixation of the Charcot foot and ankle. Diabetes Symposium, Colombian Society of Orthopaedic Surgery and Trauma (SCCOT), Armenia, Colombia
- 7/19/2008 Surgical treatment of infected Charcot. Diabetes Symposium, Colombian Society of Orthopaedic Surgery and Trauma (SCCOT), Armenia, Colombia
- 7/19/2008 Surgical treatment of midfoot and hindfoot deformities with plantar plate: Results of 250 cases. Diabetes Symposium, Colombian Society of Orthopaedic Surgery and Trauma (SCCOT), Armenia, Colombia
- 7/19/2008 Surgical treatment of foot and ankle deformities with external fixation in 85 cases. Diabetes Symposium, Colombian Society of Orthopaedic Surgery and Trauma (SCCOT), Armenia, Colombia
- 9/17/2008 Strength comparison of a graft augmented Achilles tendon repair. Orthopaedic Educational Luncheon, Union Memorial Hospital, Baltimore, MD
- 9/27/2008 Advances in treating foot and ankle tendon injuries. 96th Annual Meeting, The Clinical Orthopaedic Society, Annapolis, MD
- 11/19/2008 Correction of severe acquired flexible flatfoot with rotational and medializing calcaneal osteotomy and flexor digitorum longus transfer. Presented at the Orthopaedic Educational Luncheon, Union Memorial Hospital, Baltimore, MD
- 11/19/2008 Accuracy of therapeutic injection in the treatment of plantar fasciitis and interdigital neuroma. Presented at the Orthopaedic Educational Luncheon, Union Memorial Hospital, Baltimore, MD
- 11/19/2008 Surgical management of Charcot foot and ankle. British Orthopaedic Foot and Ankle Society Annual Scientific Meeting, Liverpool, England
- 11/20/2008 Sports injuries of the subtalar complex. British Orthopaedic Foot and Ankle Society Annual Scientific Meeting, Liverpool, England
- 2/26/2009 Ankle arthritis: Thinking deeper inside and outside the box. Instructional Course: Emerging Methods for Treating Ankle Arthritis. AAOS Annual Meeting, Las Vegas, NV
- 2/28/2009 Second toe amputation. Symposium II on Cross over second toe. AOFAS Specialty Day at AAOS Annual Meeting, Las Vegas, NV

- 3/12/2009 Biologic adjuvants: Bone marrow, BMP, and PDGF. Baltimore Fellows Foot & Ankle Meeting, Steamboat Springs, CO
- 3/12/2006 Osteoarticular allograft replacement. Baltimore Fellows Foot & Ankle Meeting, Steamboat Springs, CO
- 3/14/2009 Structural faults. Baltimore Fellows Foot & Ankle Meeting, Steamboat Springs, CO
- 3/18/2009 Biomechanical investigation of hallux varus reconstruction using the abductor hallucis tendon: a comparison of two methods. Orthopaedic Educational Luncheon, Union Memorial Hospital, Baltimore, MD
- 3/18/2009 Biomechanical investigation of hallux varus reconstruction: Biotenodesis abductor hallucis tendon transfer versus mini TightRope. Orthopaedic Educational Luncheon, Union Memorial Hospital, Baltimore, MD
- 4/8/2009 Effect of extracorporeal shock wave therapy on cultured tenocytes. Presented as a Media Release by the American Orthopaedic Foot and Ankle
- 5/7/2009 A different twist on the calcaneal fracture. NAFAA 21st Annual Meeting, San Diego, CA
- 6/19/2009 Ankle ligamentous instability and its treatment. Washington Hospital Center, Washington, DC
- 6/25/2009 Posterior mechanical reinforcement of a standard Krackow Achilles tendon repair using a new xenograft scaffold. 5th Annual Visiting Professor Lectureship Conference, Union Memorial Hospital, Baltimore, MD
- 6/25/2009 Biomechanical investigation of hallux varus reconstruction using the abductor hallucis tendon: A comparison of two methods. 5th Annual Visiting Professor Lectureship Conference, Union Memorial Hospital, Baltimore, MD
- 6/25/2009 Biomechanical investigation of hallux varus reconstruction: Biotenodesis abductor hallucis tendon transfer versus mini TightRope. 5th Annual Visiting Professor Lectureship Conference, Union Memorial Hospital, Baltimore, MD
- 6/25/2009 Correction of severe acquired flexible flatfoot with rotational and medializing calcaneal osteotomy and flexor digitorum longus transfer. 5th Annual Visiting Professor Lectureship Conference, Union Memorial Hospital, Baltimore, MD
- 6/25/2009 Crossed screws versus dorsomedial locking plate with compression screw for first metatarsocuneiform arthrodesis: A cadaver study. 5th Annual Visiting Professor Lectureship Conference, Union Memorial Hospital, Baltimore, MD
- 6/26/2009 Rotational and medializing calcaneal osteotomy for correction of acquired flatfoot deformity: A cadaver model. Union Memorial Hospital, Department of Orthopaedic Surgery, Baltimore, MD
- 7/15/2009 Alterations in cytoskeletal gene expression in normal and degenerate human tendon cells following cyclic strain. Presented at the AOFAS Annual Summer Meeting, Vancouver, BC
- 9/11/2009 Advances in treating tendon disorders of the foot and ankle. The Rose Lectureship, New York Presbyterian Hospital, Hospital for Special Surgery, New York, NY
- 9/25/2009 Design rationale of a new ankle replacement. Orthopaedic Foot Club Annual Meeting, Washington, DC
- 10/2/2009 Practical approaches to common office foot problems. Topics in Clinical Rheumatology. The Mary Betty Stevens, M.D., Memorial Arthritis Update, Arthritis Foundation, Maryland Chapter, Towson, MD
- 11/8/2009 Growth factors and bone marrow concentrate (cells and factors) and their role in healing for fusions, non-unions, complex cases, and high-risk situations. 94th Italian Orthopaedic Society Congress, Meeting of the Italian Society of the Ankle and Foot, Milan, Italy
- 12/7/2009 Current methods of induction and stimulation in bone healing. Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/8/2009 Ankle Pathology. Round Table, Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil

- 12/8/2009 Advances in the treatment of tendon injuries. Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/9/2009 Nerve compressions about the foot and ankle. Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/9/2009 Difficulties in several diagnoses and undervalued pathologies. Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/10/2009 How I treat plantar plate lesions, bunionette deformities, and sesamoiditis. Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/10/2009 Critical study of different methods of fixation in arthrodeses of the foot and ankle. Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/10/2009 Hallux valgus. Round Table, Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/11/2009 Foot and ankle injuries. Round Table, Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/11/2009 Internal vs. external fixation. Debate, Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/11/2009 Acquired flatfoot: Arthrodesis vs. lengthening calcaneal osteotomy vs. sliding medial osteotomy. Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/11/2009 Morton's neuroma: Primary and secondary neurectomies. Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/11/2009 Trauma in Sports. Round Table, Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 12/11/2009 Ankle sprains in athletes and associated injuries. Brazilian Foot and Ankle Society Meeting, Mistral Ship, Brazil
- 1/20/2010 Differential lateral forefoot pressures with triple arthrodesis versus subtalar and talonavicular arthrodesis. Orthopaedic Educational Luncheon, Union Memorial Hospital, Baltimore, MD
- 2/15/2010 Dance: An orthopaedic lower extremity perspective. Towson University Center for Arts, Towson, MD
- 4/24/2010 A biomechanical comparison of lateral malleolar fixation constructs in an osteoporotic model. 69th Annual Meeting of the Maryland Orthopaedic Association (MOA), Baltimore, MD
- 5/12/2010 Stem cell incorporating suture. Orthopaedic Educational Luncheon, Union Memorial Hospital, Baltimore, MD
- 6/10/2010 Xenograft scaffold full-wrap reinforcement of Krackow Achilles tendon repair: A biomechanical study. 6th Annual Visiting Professor Lectureship Conference, Union Memorial Hospital, Baltimore, MD
- 6/10/2010 Biomechanical rationale for the calcaneocuboid sparing modified double arthrodesis. 6th Annual Visiting Professor Lectureship Conference, Union Memorial Hospital, Baltimore, MD
- 6/10/2010 Plantar and calcaneocuboid pressure in two- versus three-column midfoot fusion: A biomechanical study. 6th Annual Visiting Professor Lectureship Conference, Union Memorial Hospital, Baltimore, MD
- 7/7/2010 Plantar and calcaneocuboid pressure in two- versus three-column midfoot fusion: A biomechanical study. AOFAS 26th Annual Summer Meeting, Baltimore, MD
- 9/29/2010 Distal tibial resection plafondplasty for talar dome osteochondral lesion exposure. Orthopaedic Educational Luncheon, Union Memorial Hospital, Baltimore, MD
- 9/29/2010 Metabolic profiling and cytokine analysis of the synovial fluid in healthy early-stage and end-stage post-traumatic ankle joints. Orthopaedic Educational Luncheon, Union Memorial Hospital, Baltimore, MD
- 2010 Intelligent surgical drill for training in arthrodesis procedures. Collegiate Inventors Competition, Washington, DC
- 10/22/2010 Reconstruction of the Charcot foot and ankle. V Curso de Actualización en Cirugía de Pie y Tobillo, Barcelona, Spain

- 10/22/2010 Reemplazo lateral de tobillo: Biología única y soluciones biomecánicas (Lateral replacement of ankle: Unique Biology and biomechanic solutions). V Curso de Actualización en Cirugía de Pie y Tobillo, Barcelona, Spain
- 10/22/2010 Advances in tibial posterior reconstruction. V Curso de Actualización en Cirugía de Pie y Tobillo, Barcelona, Spain
- 10/22/2010 Uso de concentrado de médula ósea en reconstrucción de pie y tobillo (BMA for foot and ankle reconstruction). V Curso de Actualización en Cirugía de Pie y Tobillo, Barcelona, Spain
- 12/1/2010 Achilles tendon: Greek myth and beyond. 30th Annual Meeting of the Israeli Orthopedic Association, Jerusalem, Israel
- 12/1/2010 Arthroereisis. 30th Annual Meeting of the Israeli Orthopedic Association, Jerusalem, Israel
- 12/2/2010 Calcaneal Fractures: A subtalar approach. 30th Annual Meeting of the Israeli Orthopedic Association, Jerusalem, Israel
- 3/9/2011 Dilemmas, dreams, delusions, designs and devices: Update on advances from UMH. 2011 Baltimore Alumni Meeting, Breckenridge, CO
- 3/9/2011 Debate: TTC or isolated ankle arthrodesis? 2011 Baltimore Alumni Meeting, Breckenridge, CO
- 3/10/2011 Clinical results of biologically-enhanced torn tendon/enthesis reconstructions. 2011 Baltimore Alumni Meeting, Breckenridge, CO
- 3/11/2011 Biologic treatments of Achilles disorders: Does better follow good? 2011 Baltimore Alumni Meeting, Breckenridge, CO
- 4/28/2011 Demonstration: EDB tendon transfer. NAFAA, St Louis, MO
- 4/28/2011 **Biologically Enhanced Torn Tendon / Entesis Reconstructions: Is this BETTER?** NAFAA, St Louis, MO
- 5/19/2011 Advances in foot and ankle. National Association of Orthopaedic Nurses, Baltimore, MD
- 6/23/2011 Efficacy of a mesenchymal stem cell-loaded suture on rat Achilles tendon healing. 7th Annual Visiting Professor Lectureship, Union Memorial Hospital, Baltimore, MD
- 6/23/2011 Distal tibial resection plafondplasty for talar dome osteochondral lesion exposure. 7th Annual Visiting Professor Lectureship, Union Memorial Hospital, Baltimore, MD
- 9/9/2011 Stage IV flatfoot deformity. 3rd Foot and Ankle Symposium: Arthritic Disorders of the Foot and Ankle: Diagnosis and Management. Department of Orthopaedics, University of Zurich, Balgrist, Switzerland
- 9/9/2011 Chopart arthrosis: talonavicular joint always isolated or combined with CC joint? 3rd Foot and Ankle Symposium: Arthritic Disorders of the Foot and Ankle: Diagnosis and Management. Department of Orthopaedics, University of Zurich, Balgrist, Switzerland
- 9/9/2011 Lisfranc IV-V arthrosis. 3rd Foot and Ankle Symposium: Arthritic disorders of the foot and ankle: Diagnosis and management. Department of Orthopaedics, University of Zurich, Balgrist, Switzerland
- 10/28/2011 Hindfoot fusions: Talonavicular, subtalar, calcaneocuboid and combinations: Biomechanical and clinical rationale. Orthopaedic Foot Club Meeting, Hanover, NH
- 1/20/2012 Approach and management to nonunions of the foot and ankle, including bone stimulation and biologics. Third Annual Indo-US Foot and Ankle Course, Delhi, India
- 1/20/2012 Tibiotalocalcaneal fusions: Techniques and tips. Third Annual Indo-US Foot and Ankle Course, Delhi, India
- 1/20/2012 Ankle arthritis: Distraction arthroplasty. Third Annual Indo-US Foot and Ankle Course, Delhi, India
- 1/20/2012 Recent concepts in the management of ankle fractures and syndesmotic injuries. Third Annual Indo-US Foot and Ankle Course, Delhi, India
- 1/21/2012 Operative management of adult flat foot deformity. Third Annual Indo-US Foot and Ankle Course, Delhi, India
- 1/22/2012 Live Surgical Demonstrations: 1. Ankle arthroscopy for OCD 2. Revision Triple Arthrodesis. Third Annual Indo-US Foot and Ankle Course, Delhi, India

- 1/22/2012 Prosthetics and orthotics in foot and ankle. Third Annual Indo-US Foot and Ankle Course, Delhi, India
- 1/22/2012 Diagnostic and therapeutic subtalar arthroscopy: Techniques and tips. Third Annual Indo-US Foot and Ankle Course, Delhi, India
- 2/6/2012 Dance: An orthopaedic lower extremity perspective. Towson University Center for the Arts, Towson, MD
- 4/21/2012 Biomechanical comparison of two ankle arthrodesis techniques: A posteriorly applied blade plate vs. crossed screws. 71st Annual Meeting of the Maryland Orthopaedic Association (MOA), 1st Baltimore, MD
- 4/21/2012 Computed tomography analysis of third webspace injections for interdigital neuroma. 71st Annual Meeting of the Maryland Orthopaedic Association (MOA), 1st Baltimore, MD
- 5/3/2012 Incoming AOFAS presidential presentation. AOFAS Advanced Foot and Ankle Course, Chicago, IL
- 5/4/2012 Recognition of AOFAS member contributions: A tribute to Fred Lippert. AOFAS Advanced Foot and Ankle Course, Chicago, IL
- 5/31/2012 Proximal phalangeal shortening. NAFAA Meeting, Rapid City, SD
- 6/20/2012 Stem cell loaded sutures improve Achilles tendon healing and repair strength in a rat model. AOFAS summer meeting, San Diego, CA
- 6/21/2012 Treatment of osteochondral lesions in the ankle with a particulated juvenile cartilage allograft: Mid-term outcomes in a challenging clinical population. AOFAS summer meeting, San Diego, CA
- 6/21/2012 Minimally invasive approach to calcaneal fractures. AOFAS Summer Meeting, San Diego, CA
- 6/22/2012 Computed tomography analysis of third webspace injections for interdigital neuroma. AOFAS summer meeting, San Diego, CA
- 6/28/2012 The effect of mesenchymal stem cell embedded mesh on rat Achilles defects. 8th Annual Visiting Professor Lectureship Conference, MedStar Union Memorial Hospital, Baltimore, MD
- 6/28/2012 Computed tomography analysis of third webspace injections for interdigital neuroma. 8th Annual Visiting Professor Lectureship Conference, MedStar Union Memorial Hospital, Baltimore, MD
- 6/28/2012 Biomechanical comparison of two ankle arthrodesis techniques: a posteriorly applied blade plate vs. crossed screws, 8th Annual Visiting Professor Lectureship Conference, MedStar Union Memorial Hospital, Baltimore, MD
- 7/21/2012 The synovial fluid of post-traumatic ankle arthritis holds many potential inflammatory cytokine and metabolite biomarkers, SAO Annual Meeting, San Francisco, CA
- 8/27/2012 Subtalar approach for calcaneal fractures. Australian Orthopaedics Foot and Ankle Society Conference, Sydney, Australia
- 8/28/2012 Subtalar approach for calcaneal fractures. Australian Orthopaedics Foot and Ankle Society Conference, Melbourne, Australia
- 8/29/2012 Subtalar approach for calcaneal fractures. Cadaver Lab. Australian Orthopaedics Foot and Ankle Society Conference, Hobart Tasmania, Australia
- 8/30/2012 The role of orthobiologics in foot and ankle reconstructions. Australian Orthopaedics Foot and Ankle Society Conference, Hobart Tasmania, Australia
- 8/30/2012 Dance and sports injuries of the foot and ankle. Australian Orthopaedics Foot and Ankle Society Conference, Hobart Tasmania, Australia
- 8/30/2012 Advances in tibia post reconstruction. Australian Orthopaedics Foot and Ankle Society Conference, Hobart Tasmania, Australia
- 9/6/2012 Lateral approach for ankle reconstructions. 2nd Foot and Ankle Course, Ciudad de Medellin, Columbia

- 9/6/2012 Sport /dance injuries of the foot and ankle. 2nd Foot and Ankle Course, Ciudad de Medellin, Columbia
- 9/7/2012 Talar chondral lesions treated with juvenile allograft. 2nd Foot and Ankle Course, Ciudad de Medellin, Columbia
- 9/7/2012 The Variations of the hindfoot fusion and a biomechanical treatment algorithm. 2nd Foot and Ankle Course, Ciudad de Medellin, Columbia
- 9/8/2012 Crossfire: Triple arthrodesis- arthrodesis selectivas. 2nd Foot and Ankle Course, Ciudad de Medellin, Columbia
- 9/8/2012 Subtalar approach for calcaneal fractures. 2nd Foot and Ankle Course, Ciudad de Medellin, Columbia
- 9/8/2012 Crossfire: Transferencia tendinosa FHL almuñón vs al navicular. 2nd Foot and Ankle Course, Ciudad de Medellin, Columbia
- 9/8/2012 Crossfire: osteotomia calcaneo sola vs. osteotomia +transferencia tendinosa para ITTP. 2nd Foot and Ankle Course, Ciudad de Medellin, Columbia
- 9/8/2012 Lesser toe deformities. 2nd Foot and Ankle Course, Ciudad de Medellin, Columbia
- 9/8/2012 Crossfire: Osteotomía metatarsianos 2nd Foot and Ankle Course, Ciudad de Medellin, Columbia
- 9/23/2012 Subtalar joint sports injuries. Foot and Ankle Course, Shanghai, China
- 9/24/2012 Latest advances in treating Achilles tendon pathology. Foot and Ankle Course, Shanghai, China
- 9/25/2012 Peroneal tendon surgery in the athlete. Foot and Ankle Course, Shanghai, China
- 9/26/2012 Ankle ligament stabilization with the periosteal flap modification. Foot and Ankle Course, Shanghai, China
- 10/5/2012 Efficacy of mesenchymal stem cell loaded surgical mesh in tendon repair in rats. 5th Annual Maryland Stem Cell Symposium, Annapolis, MD
- 11/17/2012 Lateral ankle replacement. Laboratory and lecture for the Zimmer Institute, Chicago, IL
- 12/12/2012 Denovo Zimmer Event. SOMOS meeting, Naples, FL
- 12/14/2012 Design rationale for ankle replacements. Zimmer Institute, Chicago, IL
- 1/26/2013 Zimmer trabecular metal total ankle. Zimmer Institute, Denver, CO
- 2/9/2013 Zimmer trabecular metal total ankle. Zimmer Institute, San Antonio, TX
- 2/14/2013 Forefoot papers. Moderator, Baltimore Fellows Foot & Ankle Meeting, Breckenridge, CO
- 2/15/2013 Foot and ankle: Challenges in the future. Baltimore Fellows Foot & Ankle Meeting, Breckenridge, CO
- 2/23/2013 Zimmer trabecular metal total ankle. Zimmer Institute, Charlotte, NC
- 3/16/2013 Zimmer trabecular metal total ankle. Zimmer Institute, Parsippany, NJ
- 3/20/2013 Potential cytokine and metabolite biomarkers of post-traumatic ankle arthritis synovial fluid, AAOS Annual Meeting, Chicago, IL
- 4/7/2013 Zimmer trabecular metal total ankle. Zimmer Institute, Houston, TX
- 6/8/2013 Zimmer Trabecular Metal Total Ankle. Zimmer Institute, Denver, CO
- 8/24/2013 Zimmer Trabecular Metal Total Ankle Expert Interactions, Zimmer Institute, Miami, FL
- 10/25/2013 Zimmer Trabecular Metal Total Ankle Expert Interactions, Zimmer Institute, Whippany, NJ
- 11/14/2013 Early Clinical Results Using the Zimmer Trabecular Metal Total Ankle. Zimmer Institute, Philadelphia, PA
- 11/21/2013 Halux valgus treatment. First Chilean Congress of Foot and Ankle, Vina Del Mar, Chile
- 11/21/2013 Lesser toes deformities. Chilean Congress of Foot and Ankle, Vina Del Mar, Chile
- 11/22/2013 Advances in Achilles tendinopathy. Chilean Congress of Foot and Ankle, Vina Del Mar, Chile
- 11/22/2013 Dance injuries. Chilean Congress of Foot and Ankle, Vina Del Mar, Chile
- 11/22/2013 Diabetic foot treatment. Chilean Congress of Foot and Ankle, Vina Del Mar, Chile
- 11/23/2013 Charcot reconstruction. Chilean Congress of Foot and Ankle, Vina Del Mar, Chile
- 11/23/2013 TTC fusions. Chilean Congress of Foot and Ankle, Vina Del Mar, Chile

- 11/23/2013 Lateral ankle replacement. Chilean Congress of Foot and Ankle, Vina Del Mar, Chile
- 11/23/2013 Midfoot fusions. Chilean Congress of Foot and Ankle, Vina Del Mar, Chile
- 12/03/2013 Bone marrow aspiration techniques and biologic approaches to bone-grafting. Biomet Webcast Event, Baltimore, MD
- 3/13/2014 The use of bone marrow concentrate in foot and ankle. TM Total Ankle Zimmer Booth, Exhibition Hall, AAOS Annual Meeting, New Orleans, LA
- 3/26/2014 Design rationale and technique of implantation of the TM ankle replacement. Zimmer Bioskills, Anatomic Institute of University of Tubingen, Tugingen, Germany
- 3/29/2014 Design rationale and technique of implantation of the TM ankle replacement. Zimmer Bioskills, Milan, Italy
- 4/01/2014 Divine, dilemmas, dreamers, domains, delusions, designs and devices. Lecture to undergraduates of Johns Hopkins University Bioengineering and Design School, Baltimore, MD
- 4/11/2014 Calcaneal fractures. Israeli Foot & Ankle Society (IFAS), Assuta Hospital, Tel Aviv, Israel
- 4/11/2014 Achilles tendon updates. Israeli Foot & Ankle Society (IFAS), Assuta Hospital, Tel Aviv, Israel
- 4/12/2014 Posterior tibial tendon updates. Israeli Foot & Ankle Society (IFAS), Assuta Hospital, Tel Aviv, Israel
- 4/12/2014 Case presentations. Israeli Foot & Ankle Society (IFAS), Assuta Hospital, Tel Aviv, Israel
- 4/25/2014 Relevation/ Revelation. Goucher Dance Department Celebration of Chrystelle Bond: 50 Years of History Passion and Excellence, Krausshaar Auditorium, Towson, MD
- 5/15/2014 Dance: An orthopaedic lower extremity perspective. Crawford Campbell Annual Resident Thesis Day, Bone and Joint Center, Albany Medical College, Albany, NY
- 5/15/2014 Lateral ankle reconstruction. Crawford Campbell Annual Resident Thesis Day, Bone and Joint Center, Albany Medical College, Albany, NY
- 5/15/2014 Calcaneal fractures. Crawford Campbell Annual Resident Thesis Day, Bone and Joint Center, Albany Medical College, Albany, NY
- 5/30/2014 Zimmer trabecular metal total ankle. Zimmer Institute, Charlotte, NC
- 7/15/2014 Mexican Foot and Ankle, Mexico City, Mexico
- 8/31/2014 Practice aspects: Zimmer TM ankle total ankle arthroplasty. Stellenbosch University, Tygerberg, South Africa
- 9/01/2014 South African Orthopaedic Association Congress, Cape Town, South Africa
- 9/21/2014 Zimmer TM total ankle: Basic science and clinical outcomes. AOFAS Side Event, IFFAS and AOFAS Annual Meeting, Chicago, IL
- 12/01/2014 Zimmer trabecular metal total ankle bioskills course. University of Vienna, Vienna, Austria
- 12/02/2014 Zimmer trabecular metal total ankle replacement course. University of Vienna, Vienna, Austria
- 12/03/2014 Zimmer Trabecular metal total ankle replacement design rational course with surgery. Madrid, Spain
- 12/04/2014 GFFC Congress and Zimmer TM Ankle Side Event. Munich, Germany
- 12/05/2014 Lessons learned: Treatment of Charcot. 2014 International Syposium for Foot Surgery, Munich, Germany
- 12/13/2014 Zimmer cadaveric practice workshop featuring the Zimmer trabecular metal total ankle, Seattle Science Foundation, Seattle, WA
- 3/12/2015 Mid & hindfoot trauma repair. Moderator, Zimmer Foot & Ankle Symposium, Complex Midfoot & Hindfoot Reconstruction, Berlin, Germany
- 3/12/2015 Lessons learned: Complications & pitfalls. Zimmer Foot & Ankle Symposium, Complex Midfoot & Hindfoot Reconstruction, Berlin, Germany
- 3/13/2015 Motivational talk: Introduction to the ankle. Zimmer Foot & Ankle Symposium, Complex Midfoot & Hindfoot Reconstruction, Berlin, Germany

- 3/13/2015 Zimmer TM ankle: Design rationale. Zimmer Foot & Ankle Symposium, Complex Midfoot & Hindfoot Reconstruction, Berlin, Germany
- 3/13/2015 OR technique with Zimmer TM ankle. Zimmer Foot & Ankle Symposium, Complex Midfoot & Hindfoot Reconstruction, Berlin, Germany
- 3/13/2015 Complications of TAR with tips & pearls. Zimmer Foot & Ankle Symposium, Complex Midfoot & Hindfoot Reconstruction, Berlin, Germany
- 6/18/2015 Divine, dilemmas, dreamers, domains, delusions, designs and devices. John Hopkins Hospital Department of Orthopedics, Baltimore, MD
- 6/17-20/2015 A biomechanical and anatomic comparison of the Evans and Hintermann lateral column lengthening osteotomies. 46th Annual Meeting of the Eastern Orthopaedic Association (EOA), Maui, Hawaii
- 6/24-27/2015 Muscle-derived mesenchymal stem cells contribute to the formation of heterotopic ossification. Annual Meeting of the International Society for Stem Cell Research (ISSCR), Stockholm, Sweden
- 6/24-27/2015 Regenerative effect of adipose tissue-derived mesenchymal stem cells in foot fat pad. Annual Meeting of the International Society of Stem Cell Research (ISSCR), Stockholm, Sweden
- 3/28-4/1/2015 Regeneration of foot fat pad with autologous adipose tissue derived mesenchymal stem cells. Annual Meeting of the Orthopaedic Research Society (ORS), Las Vegas, NV
- 3/1/2016 The role of diagnostic injections about the foot and ankle. Scientific Exhibit at the 2015 Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS), Orlando, FL
- 3/5-6/2016 Impact of anatomical cuts on bony support in total ankle arthroplasty. Annual Meeting of the Orthopaedic Research Society (ORS), Orlando, FL
- 3/1/16 Management of acute ruptures of the Achilles Tendon - Healing the Achilles heel. Scientific Exhibit at the 2015 Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS), Orlando, FL
- 3/1-5/2016 Outcomes of iliac crest bone marrow aspirate injection for the treatment of recalcitrant Achilles tendinitis. American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting, Orlando, FL
- 3/5/2016 Early weight bearing after operatively treated traumatic ankle fractures; a biomechanical analysis. Annual Specialty Day meeting of the American Orthopaedic Foot and Ankle Society (AOFAS) in conjunction with the American Academy of Orthopaedic Surgeons (AAOS), Orlando, FL
- 5/6/2016 Midfoot Injuries: How Soon Can I Play? Inaugural Inova Capital City Sports Medicine Summit, Washington, DC
- 5/21/2016 Neuropathies of the Foot & Ankle. Irish Orthopaedic Foot & Ankle Society, Belfast, UK
- 5/21/2016 MTP Fusion & MTP Interposition Arthroplasty. Irish Orthopaedic Foot & Ankle Society, Belfast, UK
- 5/21/2016 Dance Injuries of the Foot & Ankle. Irish Orthopaedic Foot & Ankle Society, Belfast, UK
- 5/21/2016 Management of the foot in diabetes. Irish Orthopaedic Foot & Ankle Society, Belfast, UK
- 5/21/2016 Lesson from my mentors. Irish Orthopaedic Foot & Ankle Society, Belfast, UK
- 9/23/2016 Particulated Juvenile Cartilage – Is It Working? 5th Annual International Congress on Cartilage Repair of the Ankle, Sorrento, Italy
- 9/23/2016 How do Cysts Develop & How Do We Treat Them? 5th Annual International Congress on Cartilage Repair of the Ankle, Sorrento, Italy
- 11/17/2016 Treatment of Diabetic Foot and Ankle, 11th International Congress of Chinese Orthopaedic Association, Beijing, China
- 11/18/2016 Advances in the Treatment of Ankle Fractures, 11th International Congress of Chinese Orthopaedic Association, Beijing, China
- 7/12/2017 Trauma Rounds: To Fix or Not to Fix? An interactive session of controversial cases, 2017 American Orthopaedic Foot and Ankle Society (AOFAS) Annual Meeting, Seattle, WA
- 1/30/2018 Improving Quality of Life Through Gait Salvage, Hangar Education Fair, Las Vegas, NV

3/7/2018 Don't lose Your Nerve: Evaluation and Management of Neurogenic Pain in the Foot and Ankle, 2018 American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting, New Orleans, LA

OTHER PROFESSIONAL ACCOMPLISHMENTS

1995, Fall Union Memorial Hospital Foundation Fund Raiser "Magic Hands"
Produced and performed a fund raising illusion (magic) show involving hospital board and staff
Benefitted the Curtis National Hand Center
Triumph Ball, Towson MD

1998-Present "The Stims"
Founding member of Orthopaedic staff band
Keyboards, backup vocals and occasionally soloist
Bi-annual performances

2009-2010 "The Sole Healers"
Founding member of American Orthopaedic Foot and Ankle Society (AOFAS) band
Keyboards, backup vocals and occasionally soloist

Orthopaedic Art:

2001 AAOS E-Motion Exhibit "Filet of Sole", 2 year traveling Art Exhibit sponsored by the AAOS

2001 "Filet of Sole" published in Academy's 2001 eMotion Pictures: An Exhibition of Orthopaedics in Art

2007 "Toe Fu: Bean Curd with a Kick", AAOS 75th Anniversary Celebration E-Motion Exhibit

Founded Companies:

1998 Designs for Wood. LLC. Prosthetic Design Company
1995 Greater Chesapeake Orthopaedic Associates, LLC. Orthopaedic practice
2000 Concepts in Medicine, LLC. Orthopaedic Product Company
2008 Bioactive Surgical, INC Innovative Biologic Systems
2012 The Stem Cell Suture Company LLC

Established Scholarships/ Research Funds

1995-Present The Schon Dance Science Scholarship, Annual scholarship to promote students involvement in dance science and perusing careers in health care related fields.
Goucher College, Towson, MD

2002-Present The Schon Scholarship, provides student financial aid for medical school tuition. Albany Medical College, New York, NY

2010-Present Schon Innovation Fund, 501c3 fund to support education and research in the field of musculoskeletal functions and disorders. Medstar Union Memorial, Baltimore, MD