**CURRICULUM VITÆ**

**ANDREW H. SCHMIDT, M.D.**

**Personal Data**

 Office Address: Dept. of Orthopedic Surgery

 Hennepin County Medical Center

 701 Park Ave. South, mailcode G2

 Minneapolis, Minnesota 55415

 Phone: 612 873-8595

 Fax: 612 904-4280

 Email: schmi115@umn.edu

**Licensure**

 No. 36413 Minnesota (7-10-93, Active)

**Board Certification**

 American Board of Orthopaedic Surgery, 1996,

 Recertified 2003, 2014 (valid through 2026)

**Undergraduate Education**

 1979-1984 University of Colorado, Boulder (B.S. Electrical Engineering, with honors)

**Medical School**

 1984-1988 University of California, San Diego (M.D.)

**Internship**

 1988-1989 Oregon Health Sciences University, Portland, Oregon

 (General Surgery)

**Residency**

 1989-1993 Oregon Health Sciences University, Portland, Oregon

 (Orthopædic Surgery)

**Fellowship**

 1993-1994 Hennepin County Medical Center, Dr. Richard F. Kyle

 (Total Joint Replacement and Shoulder Surgery)

# Honors

Visiting Scholar, Landstuhl Regional Medical Center, Germany, July 2010.

2010 University of Minnesota Department of Orthopaedic Surgery Teacher of the Year

2008 First Prize, British Medical Association book awards, Orthopedics category, given to "[Surgical Treatment of Orthopedic Trauma](http://www.thieme.com/SID2408732360767/productsubpages/pubid1045062541.html)”, Edited by James P. Stannard, Andrew H. Schmidt, and Philip J. Kregor.

Named to “America’s Top Orthopedists” 2008, 2012.

2007 PSP Award for Excellence in the Clinical Medicine Category, given by the Association of American Publishers for "[Surgical Treatment of Orthopedic Trauma](http://www.thieme.com/SID2408732360767/productsubpages/pubid1045062541.html)”, Edited by James P. Stannard, Andrew H. Schmidt, and Philip J. Kregor.

Named in “Best Doctors in America” 2005-2006, 2007-2008, 2009-2010, 2011-2012.

Minneapolis / St. Paul Magazine Top Doctor, 2005, 2007, 2008, 2011-2018.

Minnesota Monthly Top Doctor 2014, 2015, 2018

Fellow, American Orthopedic Association, 2003.

Finalist, 2001 ABC Traveling Fellowship, American Orthopaedic Association

E.G. Chuinard Award, 31st Dillehunt Memorial Lecture, Shriner's Hospital for Crippled Children, Portland Unit, 1991.

Vernon P. Thompson Award, 1991 Western Orthopaedic Association Meeting, for excellence in basic science or clinical research by a resident in the field of orthopaedic surgery.

Graduated with honors, Univ. of Colorado Dept. of Electrical and Computer Engineering, 1984.

Tau Beta Pi, national engineering honor society, 1982, lifetime member.

# Academic Appointments

5/2009 Professor, University of Minnesota

12/2001 Associate Professor, University of Minnesota

7/1997 Assistant Professor, University of Minnesota.

8/1994 Clinical Instructor, University of Minnesota.

8/1993 Faculty, Hennepin County Medical Center, Minneapolis, MN.

# Other Memberships

12/14 Member. Institute for Engineering in Medicine

7/08 Medical Panel Member, Defense Science Board Task Force on Improvised Explosive Devices

2007 Member, Collaboration for Outcome Assessment in Surgical Trials

2005 American Board of Orthopaedic Surgery, Written Examination Field Test Task Force

3/04 Evidence-Based Working Group in Trauma

11/02 Voting Consultant Member, FDA Orthopaedic and Rehabilitation Devices Advisory Panel

1/02 Medical Services Review Board, Minn. Dept of Labor & Industries

2/01 AAOS Board of Councilors (Elected by Minn. Orthopedic Society)

5/99 Member, AO/ASIF Shoulder Expert Study Group

6/95 AO/ASIF Faculty.

**Professional Societies**

Orthopaedic Trauma Association, 1995-present

 Co-Chair, Extremity War Injuries Symposium, 2016-2017

 President, 2013-2014

 President-Elect, Research Council Chair 2012-2013

 2nd President-Elect, Education Council Chair 2011-2012

 OTA Fellow’s Course Faculty, 2011, 2012, 2013, 2014, 2015, 2016

 Research Committee 2010-2013

 Visiting Scholar, Landstuhl Regional Medical Center, July 12-25, 2010.

 International Relations Committee, 2008-2010

 Co-Chair, International Symposium, San Diego, CA, Oct 6, 2009

 Co-Chair, International Symposium, Baltimore, MD, Oct 13, 2010

 Board of Directors, 2007-2008, 2011-2016

 Chair, Program Committee, 2007-2008

 Nominating Committee, 2004-2005.

 Program Committee, 2002-2008

 Membership Committee, 2002-2005

 Trauma Update Course Planning Committee, 2000-2002

 Coding and Classification Committee, 1998-2001

 Active Member, 1998 - present

 Nominating Committee, 1997-1998

 Associate Member, 1995-1998

American Academy of Orthopaedic Surgeons, Fellow, 1998 - present. Chair, Annual Meeting Committee, 2018

 Board of Specialty Societies, OTA Representative, 2012-2014

 AAOS Now Editorial Advisory Committee, 2007 – 2009

 Central Program Committee, 2004-8

 Program Chair, 2007 Annual Meeting

 Member Communications Project Team, 2005

 Trauma Program Subcommittee, 2003-4

 Board of Councilors, 2001-2007.

 Bylaws Review Committee, 2001

 Committee on Annual Meeting 1998-2004

 National Orthopaedic Leadership Conference, Washington D.C., 1999-2006,

 2013

Minnesota Orthopedic Society

President, 1999-2000

President-Elect, 1998-1999

Board of Directors, 1997 – present

Elected representative, Dept. of Labor and Industry Medical Services Review Board, 2003-present

American Orthopaedic Association, Active Member, June 14, 2003

Critical Issues Committee, 2010-2013

 “A looming crisis in graduate surgical education”, AOA newsletter, Vol 45(1), 2012.

Emerging Leaders Program Guide, 2006

Leadership in Voluntary Organizations, Chicago, IL, April 2-3, 2004

International Society for Fracture Repair

Minnesota Medical Association, 1993 – present

 Imaging Task Force, 2007

Mid-America Orthopaedic Association, 1998 - present

AO North America, 1996 - present

Hennepin Medical Society, 1993 - present

American Medical Association, 1985 - present

Tau Beta Pi, 1983 - present

**Clinical Practice**

 1/12 – present: Hennepin Health System

 Chair, Dept. of Orthopaedic Surgery, 8/14 - present

 7/93 – 12/11: Hennepin Faculty Associates

Board of Directors, 2007-2008

Finance Committee 2003-2011

 Search Committee, Chief, Dept. of Pediatrics 1998

 8/94 – 12/07: Wayzata Orthopedics, P.A.

President 2000-2007

Office manager 2000-2001

**Hospital Affiliations**

Hennepin County Medical Center, Minneapolis, MN 1993-present

Chief, Dept. of Orthopedic Surgery 2014-present

Claims Management Committee 2013-present

Supply Chain Committee 2013-present

Clinical Practice Committee 2012-present

Patient Experience Committee 2011-present

 Medical Director, Orthopedic Clinic 2011-2014

 Director, Adult Reconstruction Service 2007-present

 Director, Orthopedic Clinical Research Program 2007-present

 OR Scheduling Team 2004

 Orthopedic Work Group 2004

 OR Efficiency Task Force 2004

 OR Process Task Force. 1997

 Pain Assessment Task Force. 1995 - 1999

 Director, Clinical Systems Program, Orthopedic Pilot. 1995 - 1997

Fairview-Riverside Hospital, Minneapolis, MN 1993 – 2001

Abbott Northwestern Hospital, Minneapolis, MN 1993 - 2007

WestHealth Inc., Plymouth, MN 1994 – 2007

# Consultant

Acumed

Bone Support, AB

Smith & Nephew

Medtronic

DGIMed

Conventus Orthopedics

Anthem Orthopedics VAN

FH Orthopedics

Minnesota Dept. of Public Health

ACE-DePuy Orthobiologics

Twin Star, Inc.

## Educational Activities

2017-18 Faculty Advisor, Senior BME Design Group:

2016-17 Faculty Advisor, Senior BME Design Group: Mariam El-Khatib, Alexa Lodise, Kayla Masessa, Pierre Sebastian, and Trevor Springer: Sub-Cast Edema Measuring Device for Ankle Fracture Cases

2006 G3 Resident Review Committee, Univ. of MN Dept. of Orthopedic Surgery

2005 G3 Resident Review Committee, Univ. of MN Dept. of Orthopedic Surgery

2004 Curriculum Committee, Univ. of Minnesota Dept. of Orthopedic Surgery

2004 G3 Resident Review Committee, Univ. of MN Dept. of Orthopedic Surgery

2001 Curriculum Committee, Univ. of Minnesota Dept. of Orthopedic Surgery

2000-2007 Residency Selection Committee, Univ. of Minnesota Dept. of Orthopedic Surgery

1998-present Instructor, Univ. of Minnesota MSII Pathophysiology Course.

7/97 - present Director, Orthopedic Learning Center, Hennepin County Medical Center.

**Peer Reviewer:**

 Editorial Board, Journal of Orthopaedic Trauma.

 Bone and Joint Evidence, Vol 1, Issue 1: Simunovic et al. The Effect of Surgical Timing

 on Elderly Hip Fracture Patient Outcomes. An Updated Systematic Review and Meta-Analysis

 Journal of Orthopedic Research

 Journal Bone and Joint Surgery (American)

 Journal of Trauma

 Journal of the American Academy of Orthopaedic Surgeons

 Clinical Orthopaedics and Related Research

 British Journal of Sports Medicine

 ASTM Symposium on Modularity of Orthopedic Implants, Nov. 8, 1995.

# Editor

Stannard J, Schmidt AH. *Surgical Treatment of Orthopaedic Trauma, 2nd Ed.* New York:Thieme Medical Publishers, 2015.

Associate Editor for Trauma, Journal of Bone and Joint Surgery Essential Surgical Techniques

Sethi MK, Jahangir AA, Obremskey WT. Orthopedic Traumatology: An Evidence-Based Approach. Springer, 2013. Section editor.

Ricci WM, Tornetta P III. *ICL Trauma 2*. American Academy of Orthopaedic Surgeons, Rosemont, IL 2012. Lower Extremity Section editor.

Associate Editor for Trauma, Journal of Knee Surgery

Bhandari M. *Evidence-Based Orthopedics.* Blackwell BMJ Books, in press. Co-editor, Musculoskeletal Trauma Section.

Schmidt AH, Teague D. *Trauma Orthopedic Knowledge Update 4*. American Academy of Orthopaedic Surgeons, Rosemont, IL, in press.

Fischgrund JS*. Orthopaedic Knowledge Update 9*. American Academy of Orthopaedic Surgeons, Rosemont, IL, 2008. Lower Extremity Section co-editor.

Stannard J, Kregor P, Schmidt AH. *Surgical Treatment of Orthopaedic Trauma.* New York:Thieme Medical Publishers, 2007.

Baumgaertner M, Tornetta P III. *Trauma Orthopaedic Knowledge Update 3*. American Academy of Orthopaedic Surgeons, Rosemont, IL 2005. Upper Extremity Section editor.

*Orthopaedic Trauma Association Resident Curriculum Slide Project*, section editor. 2003

**Certifications**

Completed Conflict of Interest Course. *Collaborative Institutional Training Initiative (CITI),* Sept. 11, 2018.

Completed Human Research Curriculum, Basic Course. *Collaborative Institutional Training Initiative (CITI),* Feb. 19, 2017.

Completed Human Research Curriculum, Good Clinical Practice and ICH (GCP) Basic Course. *Collaborative Institutional Training Initiative (CITI),* Jan. 2, 2017.

Completed Human Research Curriculum, Basic Course. *Collaborative Institutional Training Initiative (CITI),* May 19, 2014.

Completed Conflict of Interest Curriculum. *Collaborative Institutional Training Initiative (CITI),* August 13, 2012.

Completed Human Research Curriculum, Good Clinic Practice. *Collaborative Institutional Training Initiative (CITI),* April 12, 2012.

AAOS/OTA/SOMOS Disaster Response Course, December 2011.

Completed Human Research Curriculum, Basic Course. *Collaborative Institutional Training Initiative (CITI),* May 30, 2008.

Completed Human Participant Protections Education for Research Teams, *National Cancer Institute/NIH,* February 25, 2008.

**Current Research Support:**

CDMRP Log Number: JW160020 Grants.gov ID Number: GRANT12126684

Project Duration: 48 months Total Budget Requested: $5,061,721 Direct Costs: $3,824,265 Indirect Costs: $1,237,455

Title: Development and Dissemination of Clinical Practice Guidelines and Appropriate Use Criteria for Treatment of Major Extremity Trauma Principal Investigator: Ellen Mackenzie, Co-PI Andrew Schmidt, MD

Contracting Organization: Johns Hopkins University

**Past Research Support:**

DoD/ W81XWH-10-1-0750 (Schmidt – PI) 10/1/10 to 9/30/2013 ($3,633,000)

Tissue Ultrafiltration, Biomarkers and Pressure Measurement in Polytrauma Patients with Tibia Fracture: A Randomized Trial Emphasizing Long-Term Outcomes

Compartment syndrome (CS), a condition in which intramuscular pressure (IMP) becomes sufficiently elevated to reduce myoneural blood flow to the point of causing tissue ischemia, frequently occurs following trauma, ischemia / reperfusion injury, and prolonged tourniquet use in the extremity. The objective of this human study is to evaluate ultrafiltration catheters as a means to reduce IMP, prevent compartment syndrome, and improve outcome in polytrauma patients.

DoD/ W81XWH-12-1-0121 (Schmidt – PI) 3/15/12 to 4/14/2014 ($800,116)

Tissue Ultrafiltration, Biomarkers, and Pressure Measurement in Isolated Tibia Fracture Patients: A Randomized Clinical Trial Emphasizing Intramuscular Pressure Reduction.

Compartment syndrome (CS), a condition in which intramuscular pressure (IMP) becomes sufficiently elevated to reduce myoneural blood flow to the point of causing tissue ischemia, frequently occurs following trauma, ischemia / reperfusion injury, and prolonged tourniquet use in the extremity. The objective of this human study is to evaluate ultrafiltration catheters as a means to reduce IMP, prevent compartment syndrome, and improve outcome in isolated tibia fracture patients.

“Major Extremity Trauma Research Consortium, CORE site PI”. Department of Defense. $844,242, 9/1/10 – 8/31/15

“Intramedullary Nails versus Plate Fixation Re-Evaluation Study in Proximal Tibia Fractures: A Multicenter Randomized Trial Comparing IM Nails and Plate Fixation (IMPRESS)”. Orthopaedic Trauma Association, $80,000, Jan 1, 2008 – Dec 31, 2009.

“The Mechanical Contribution of Locked Screws During “Hybrid” Plating”. Smith & Nephew, $25,385, Jan 1, 2007 – June 30, 2007.

“Prevention of Compartment Syndrome With Ultrafiltration Catheters”. Department of Defense, Contract/Award W81XWH-07-1-0243, $838,141, Feb. 22, 2007 – 2/21/08.

 W81XWH-07-1-0243, Mod P0001, 2/21/08-3/31/08, $261,236

 W81XWH-07-1-0243, Mod P0002, 4/1/08-5/31/08, $229,100

 W81XWH-07-1-0243, Mod P0003, 6/1/08-8/10/08, $206,201

 W81XWH-08-C-0072, $1,770,689, Aug 11, 2008 to Aug 10, 2009.
W81XWH-08-C-0072, Mod P0003, 8/11/09-8/10/10, $1,361,000

“Clinical evaluation of a novel Reamer / Irrigator / Aspirator (RIA) device for intramedullary nailing”. Synthes USA, $47,478, Jan 1, 2006 – Dec 31, 2007.

“Effect of OP-1 on Gene Expression in Chronically Infected Femoral Segmental Defect in the Rat “, Orthopaedic Trauma Association, $25,000, Jan 1, 2005 – Dec 31, 2005.

“Management of Compartment Syndrome with CST Catheters. Consultant in FDA Pilot Study, Sponsored by Twin Star, Inc. (Supported by NIH grant (P.I. Rick Odland, M.D.)). Results presented at the 2004 Fall Meeting, Orthopedic Trauma Association.

“Role of Bone Morphogenetic Protein-2 in Bone Formation in the Presence of an Infection. A Titanium Bone Chamber Model in Rabbits “. Funded by Orthopaedic Trauma Association, $18,263. January 1, 2000 - December 31, 2000.

Safety and Efficacy of Recombinant Human Erythropoietin in Elderly Patients with Intertrochanteric Femur Fractures. Funded by Ortho Biotech, Inc.

Clinical Investigator, Synthes Humeral Flex-Nail. Participant in Clinical Handling Test, results presented at Flex-Nail Seminars, Davos, Switzerland, June 1-2, 1996, December 12, 1996, December 1997.

"Therapeutic Role of Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) in Infected Fractures of Rabbit. Funded by Orthopaedic Trauma Association, $19,892, January 1, 1997 - December 31, 1997.

"Generation of Particulates by Precipitation of Ions Produced by Corrosion: A Potential Source of Debris Associated with Total Joint Replacement". Funded by Hennepin Faculty Associates / Minneapolis Medical Research Foundation, Grant No. 96004, $13,472, July 1, 1996 - June 30, 1997.

**Publications: Manuscripts (H-index 32)**

NCBI bibliography: <https://www.ncbi.nlm.nih.gov/sites/myncbi/1-ER5n9-e6qQA/bibliography/53695899/public/?sort=date&direction=ascending>.

93. Schmidt AH, Osborn COL P, Johnson AJ, et al. American Academy of Orthopaedic Surgeons. Management of Acute Compartment Syndrome Clinical Practice Guideline. [www.aaos.org/acsguideline.](http://www.aaos.org/acsguideline.) Published December 7, 2018.

92. **Schmidt AH**. Problems in plating periprosthetic fractures. Injury 2018; 49(S1):S49–S50.

91. **Schmidt AH**, Bosse MJ, Obremskey WT, et al. Continuous Near-Infrared Spectroscopy Demonstrates Limitations in Monitoring the Development of Acute Compartment Syndrome in Patients with Leg Injuries. J Bone Joint Surg Am. 2018;100:1645-52.

90. Collinge C, Attum B, Tornetta P III, Obremskey W, Ahn J, Mirick G, **Schmidt** A, et al. Acute compartment syndrome: An expert survey of Orthopedic Trauma Association (OTA) members. J Orthop Trauma 2018; 32(5):e181-e184.

89. Sprague S, Schemitsch EH, Swiontkowski M, Della Rocca GJ, Jeray KJ, Liew S, Slobogean G, Bzovsky S, Heels-Ansdell D, Zhou Q, Bhandari M; FAITH Investigators. Factors Associated with Revision Surgery Following Internal Fixation of Hip Fractures. J Orthop Trauma [Accepted February 2018]

88. Sprague S, Bhandari M, Heetveld MJ, Liew S, Scott T, Bzovsky S, Heels-Ansdell D, Zhou Q, Swiontkowski M, Schemitsch EH; FAITH investigators. Factors Associated with Health-Related Quality of Life, Hip Function, and Health Utility after Operative Management of Femoral Neck Fractures. Bone Joint J [Accepted September 2017]

87. Kyle RF, Duwelius PJ, Haidukewych GJ, **Schmidt AH**. Arthroplasty for Unreconstructable Acute Fractures and Failed Fracture Fixation About the Hip and Knee in the Active Elderly: A New Paradigm. Instr Course Lect. 2017;66:181-192.

86. Sprague S, Slobogean GP, Bogoch E, Petrisor B, Garibaldi A, O'Hara N, Bhandari M; FAITH Investigators. Vitamin D Use and Health Outcomes After Surgery for Hip Fracture. Orthopedics. 2017 Oct 1;40(5):e868-e875.

85. Stinner DJ, Wenke JC, Ficke JR, et al. Military and civilian collaboration: The power of numbers. Mil Med 2017;182:(3/4 Suppl):10.

84. **Schmidt AH**. Acute Compartment Syndrome. Injury 2017;48 Suppl 1:S22-S25.

83. Wegener S, Carroll E, Gary J, et al. Trauma collaborative care intervention: effect on surgeon confidence in managing psychosocial complications following orthopaedic trauma. J Orthop Trauma, 2017;31(8):427-433.

82. **Schmidt AH**, Bosse MJ, Frey K, et al. Predicting Acute Compartment Syndrome (PACS): The Role of Continuous Monitoring. J Orthop Trauma 2017;31 Suppl 1:S40-S47.

81. Obremskey WT, **Schmidt AH**, O’Toole RV, et al. A Prospective Randomized Trial to Assess Oral Versus Intravenous Antibiotics for the Treatment of Postoperative Wound Infection After Extremity Fractures (POvIV Study). J Orthop Trauma 2017;31:S32–S38.

80. Antell NB, Switzer JA, **Schmidt AH**. Treatment of Acetabular Fractures in the Elderly. J Am Acad Orthop Surg 2017;25:577-585.

79. Stinner D, Johnson AE, Pollak A, MacKenzie E, Ficke JR, Mabry RL, Czarnik J, **Schmidt A**. ‘Zero Preventable Deaths and Minimizing Disability' - The challenge set forth by the National Academies of Sciences, Engineering, and Medicine. J Orthop Trauma 2017;31:e110-e115.

78. Manson T, Schmidt AH. Acetabular Fractures in the Elderly: A Critical Analysis Review. JBJS Reviews 2016;4(10);e1.

77. Jones CB, Schmidt AH. Trauma Center Growth in the United States—A Plea for Planning and Oversight. J Orthop Trauma 2016; 30(10):523-524.

76. Schmidt AH. Acute Compartment Syndrome. Orthop Clin N Am 2016;47(3):517-525.

75. Andersen RC, Schmidt AH, Fitzgerald BT, et al. Extremity War Injuries IX: Reducing Disability Within the Military. J Am Acad Orthop Surg 2015;23:e13-e26.

74. Lin C, Caron J, Schmidt AH, Torchia M, Templeman DC. Functional Outcomes After Total Hip Arthroplasty for the Acute Management of Acetabular Fractures: 1- to 14-Year Follow-up. J Orthop Trauma 2015;29:151–159.

73. Neuhaus V, Bot AGJ, Guitton TG, Ring DC, The Science of Variation Group. Scapula fractures: Interobserver Reliability of Classification and Treatment. J Orthop Trauma 2014;28:124-129.

72. Bogdan Y, Tornetta P III, Leighton R, Sagi H, Nalley C, Sanders D, Siegel J, Mullis B, Bemenderfer T, Vallier H, Boyd A, **Schmidt A**, Westberg J, Egol K, Kottmeier S, Collinge C. Treatment and complications in orthopaedic trauma patients with symptomatic pulmonary embolism. J Orthop Trauma 2014;28 Suppl 1:S6-S9.

71. Obremskey WT, Molina CS, Collinge C, Tornetta P 3rd, Sagi C, **Schmidt A**, Probe R, Ahn J, Nana A, Browner BD. Current practice in the initial management of open fractures among orthopaedic trauma surgeons. J Orthop Trauma 2014;28:e198–e202.

70. Obremskey WT, Molina CS, Collinge C, Tornetta P 3rd, Sagi C, **Schmidt A**, Probe R, Ahn J, Nana A. Current practice in the management of segmental bone defects among orthopaedic trauma surgeons. J Orthop Trauma 2013;epub.

69. Science of Variation Group. How surgeons decide when the evidence is inconclusive. J Hand Surg Am 2013;38(6):1202-1208.

68. Science of Variation Group. Interobserver Reliability of Proximal Humerus Fracture Classification: Two-Dimensional vs. Three-Dimensional Computed Tomography. J Bone Joint Surg Am 2013;95-A(17):1600-1604.

67. Matityahu A, Schmidt AH, Grantz A,Clawson B, Marmor M, McClellan RT. The variable angle hip fracture nail relative to the Gamma 3: A finite element analysis illustrating the same stiffness and fatigue characteristics. Adv Orthop 2013;ID 143801. http://dx.doi.org/10.1155/2013/143801.

66. [Guitton TG](http://www.ncbi.nlm.nih.gov/pubmed?term=Guitton%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=22048097), [Ring D](http://www.ncbi.nlm.nih.gov/pubmed?term=Ring%20D%5BAuthor%5D&cauthor=true&cauthor_uid=22048097); [Science of Variation Group](http://www.ncbi.nlm.nih.gov/pubmed?term=Science%20of%20Variation%20Group%5BCorporate%20Author%5D). Diagnosis of Elbow Fracture Patterns on Radiographs: Inter-observer Reliability. Clin Orthop Rel Res 2013;471(4):1373-1378.

65. Harvey EJ, Sanders DW, Shuler MS, Lawendy A-R, Cole AL, AlQahtani SM, Schmidt AH. What's new in acute compartment syndrome? J Orthop Trauma 2012;26:699-702. (18 citations)

64. Schmidt AH. Preparing for the road ahead. J Orthop Trauma 2012;26(Suppl 1):S21-22.

63. Schmidt AH. Method for optimizing imaging during repair of proximal humeral fractures. J Orthop Trauma 2012;26.

62. Schmidt AH. Invited Commentary: The reliability of measurement of tissue pressure in compartment syndrome. J Orthop Trauma 2012;26:e166.

61. Freeman AL, Craig MR, Schmidt AH. Biomechanical comparison of tibial nail stability in a proximal third fracture: do screw quantity and locked, interlocking screws make a difference? J Orthop Trauma 2011;25:333-339 (4 citations)

60. [Guitton TG](http://www.ncbi.nlm.nih.gov/pubmed?term=Guitton%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=22048097), [Ring D](http://www.ncbi.nlm.nih.gov/pubmed?term=Ring%20D%5BAuthor%5D&cauthor=true&cauthor_uid=22048097); [Science of Variation Group](http://www.ncbi.nlm.nih.gov/pubmed?term=Science%20of%20Variation%20Group%5BCorporate%20Author%5D). Interobserver reliability of radial head fracture classification: two-dimensional compared with three-dimensional CT. J Bone Joint Surg Am. 2011;93(21):2015-21. (21 citations)

59. Odland RM, Schmidt AH. Compartment syndrome ultrafiltration catheters: report of a clinical pilot study of a novel method for managing patients at risk of compartment syndrome. J Orthop Trauma. 2011;24:358-365. (3 citations)

58. Schmidt AH. The impact of compartment syndrome on hospital length-of-stay and charges among adult patients admitted with a fracture of the tibia. J Orthop Trauma. 2011;25:355-357. (17 citations)

57. Miclau T, Schmidt AH, Wenke JC, Webb LX, Harro JM, Prabhakara R, Shirtliff ME. Basic Science Focus Forum V: Infection. J Orthop Trauma 2010;24:583-586. (5 citations)

56. Weinlein J, Schmidt AH. What’s new in orthopaedic trauma? J Bone Joint Surg Am 2010;92-A:2247-2260. (5 citations)

55. Weinlein J, Schmidt AH. Compartment syndrome in tibial plateau fractures. Beware! J Knee Surg 2010;23:9-16. (18 citations)

54. Collinge C, Kennedy J, Schmidt A. Temporizing external fixation of the lower extremity: a survey of the orthopaedic trauma association membership.Orthopedics 2010;33:239. (6 citations)

53. Jahangir AA, Cross WW, Schmidt AH. Current Management of Distal Femoral Fractures. *Current Orthopaedic Practice*. 2010:21:193-197. (3 citations)

52. Schmidt AH, Anglen J, Nana AD, Scherl S, Varecka TF. Acute trauma: Getting through the night. In Instructional Course Lectures, Vol. 59. Ed. Mary O’Connor. Rosemont, IL, The American Academy of Orthopaedic Surgeons 2010, pp. 437-453.

51. Freeman AL, Tornetta P III, Schmidt A, Bechtold J, Ricci W, Fleming M. How much do locked screws add to the fixation of "hybrid" plate constructs in osteoporotic bone? J Orthop Trauma 2010;24:163-169. (45 citations).

50. Scherl SA, Schmidt AH. Pediatric trauma: Getting through the night. J Bone Joint Surg Am 2010;92-A:756-764. (13 citations)

49. Schmidt AH, Anglen J, Nana AD, Varecka TF. Adult trauma: Getting through the night. J Bone Joint Surg Am 2010;92-A:490-505. (14 citations)

48. Schmidt AH, Jahangir AA. What’s new in orthopaedic trauma? J Bone Joint Surg Am 2010;91-A:2055-2066-2260. (4 citations)

47. [Karanicolas PJ](https://www.researchgate.net/researcher/2006974962_Karanicolas_PJ/), [Bhandari M](https://www.researchgate.net/researcher/2006978983_Bhandari_M/), [Walter SD](https://www.researchgate.net/researcher/2006976565_Walter_SD/), [Heels-Ansdell D](https://www.researchgate.net/researcher/2006973917_Heels-Ansdell_D/), [Guyatt GH](https://www.researchgate.net/researcher/2006978561_Guyatt_GH/), [Collaboration for Outcomes Assessment in Surgical Trials (COAST) Musculoskeletal Group](https://www.researchgate.net/researcher/2006974900_Collaboration_for_Outcomes_Assessment_in_Surgical_Trials_COAST_Musculoskeletal_Group/). [Radiographs of hip fractures were digitally altered to mask surgeons to the type of implant without compromising the reliability of quality ratings or making the rating process more difficult.](https://www.researchgate.net/publication/235919816_Radiographs_of_hip_fractures_were_digitally_altered_to_mask_surgeons_to_the_type_of_implant_without_compromising_the_reliability_of_quality_ratings_or_making_the_rating_process_more_difficult?ev=prf_pub) J Clin Epidemiol 2009;62(2):214-223.

46. Schmidt AH, Zhao G, Turkelson C. Levels of evidence at the AAOS meeting: can authors rate their own submissions, and do other raters agree? J Bone Joint Surg Am 2009;91-A:867-873. (14 citations)

45. Brick KE, Chen X, Lohr J, Schmidt AH, Kidder LS, Lew WD. rhBMP-2 Modulation of gene expression in infected segmental bone defects. Clin Orthop. 2009;467(12):3096-3103. (6 citations)

44. Kidder LS, Chen X, Schmidt AH, Lew WD. Osteogenic Protein-1 Overcomes Inhibition of Fracture Healing in the Diabetic Rat. A Pilot Study. Clin Orthop. 2009;467(12):3249-3256. (10 citations)

43. Schmidt AH, Leighton RK, Parvizi J, Sems A, Berry DJ. Optimal Arthroplasty for Femoral Neck Fractures: Is Total Hip Arthroplasty the Answer? J Orthop Trauma. 2009;23(6):428-433. (61 citations)

42. Templeman DC, Anglen J, Schmidt AH. The management of complications associated with tibial fractures. In Instructional Course Lectures, Vol 58. Ed. Fred Azar. Rosemont, IL, The American Academy of Orthopaedic Surgeons 2009, pp 47-60. (3 citations)

41. Schmidt AH. Putting it all Together: What can we learn from Meta-analysis regarding Femoral Neck Fractures? Techniques in Orthopedics. 2008;23:317-321.

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Ishii K, Wu H-H, Tornetta P III, et al. Open Reduction Internal Fixation vs. Closed Reduction Internal Fixation in Treatment of Young Adults with Femoral Neck Fractures: A Multicenter Retrospective Cohort Study. Orthopaedic Trauma Association Annual Meeting, Washington, D.C, Oct. 8, 2016.

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Tornetta P III, Dale K, Jones CB, Mullis BH, Egol KA, Robinson E, Bosse MJ, Schmidt AH, Hymes RA. The Fate of Patients After a Staged Nonunion Procedure for Known Infection.Orthopedic Trauma Association Annual Meeting, San Antonio, Tx, Oct 15, 2011.

Freeman AL, Craig MR, Schmidt AH. Comparative in-vitro testing of tibial nails: is nail fixation improved with additional proximal screws? Basic Science Focus Forum, Orthopedic Trauma Association Annual Meeting, San Diego, CA, Oct. 7, 2009.

Ricci WM, Tornetta P III, Zheng Y, Whitten A, Schmidt A. Mechanical advantages of locked plating in short segment fracture fixation. Basic Science Focus Forum, Orthopedic Trauma Association Annual Meeting, San Diego, CA, Oct. 7, 2009.

Tornetta P III, Schmidt A, Ricci W, Freeman A, Bechtold J, Fleming M. How Much Does the Addition of Locked Screws Add to the Stability of Hybrid Fixation? American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV, February 26, 2009.

Caron J, Schmidt AH, Templeman DC. Combined ORIF and THA for Acute Management of Acetabular Fractures in the Elderly. Minnesota Orthopedic Society Annual Meeting, Minneapolis, May 9, 2008.

Cross WW III, Polly D, Braman J, Schmidt A, Sherr G, Galicich W. Spinal Injuries Sustained in the I-35 Bridge Collapse: August 1, 2007. Minnesota Orthopedic Society Annual Meeting, Minneapolis, May 9, 2008.

Caron J, Schmidt AH, Templeman DC. Open Reduction and Internal Fixation Combined with Total Hip Arthroplasty for Acute Management of Displaced Acetabular Fractures in the Elderly. American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, CA, March 7, 2008.

Schmidt AH, Turkelson C. Levels of Evidence at the AAOS Meeting. Can Authors Rate Their Own Submissions, and Do Other Raters Agree? American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, CA, March 6, 2008.

Schmidt AH. Massive Periarticular Injuries: Role of Staged Prosthetic Reconstruction. Extremity War Injuries III: Challenges In Definitive Reconstruction. Washington DC, January 24, 2008

Rice RS, Sems SA, Torchia ME, Cole PA, Bloemke A, Schmidt AH. Comparison of Superior and Antero-Inferior Plate Placement in the Treatment of Clavicle Fractures. Orthopedic Trauma Association Annual Meeting, Boston, MA, Oct 20, 2007.

Tornetta P III, Schmidt A, Ricci W, Freeman A, Bechtold J, Fleming M. How Much Does the Addition of Locked Screws Add to the Stability of Hybrid Fixation? Orthopedic Trauma Association Annual Meeting, Boston, MA, Oct 19, 2007.

Caron J, Schmidt AH, Templeman DC. Open Reduction and Internal Fixation Combined with Total Hip Arthroplasty for Acute Management of Displaced Acetabular Fractures in the Elderly. Orthopedic Trauma Association Annual Meeting, Boston, MA, Oct 19, 2007.

Schmidt AH, Philippe M, Hummer J, Gacon GM, Ray A. The ESOP-HA modular cementless femoral stem: Results of 165 cases with 10-year follow-up. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, March 22-26, 2006.

Schmidt AH, Odland R, Fowler B, Tollefson J. Compartment syndrome ultrafiltration catheters: A clinical study of a novel method for managing patients at risk of compartment syndrome. Orthopaedic Trauma Association Annual Meeting, Ft. Lauderdale, FL, Oct 8, 2004.

### Kidder LS, Chen X, Schmidt AH, Lew WD. OP-1 induces bone formation in the presence of bacterial infection. Fifth European Trauma Congress. Vienna, May 4-8, 2002.

Schmidt AH, Chen X, Kidder LS, Lew WD. Effect of OP-1 on Healing of an Infected Segmental Defect in the Rat Femur. Presented at the Orthopedic Trauma Association Annual Meeting, San Diego, CA, Oct 18, 2001.

R Odland, A Schmidt, B Hunter, L Kidder, J Bechtold, R Pedowitz, A Hargens. Use of Tissue Ultrafiltration for Treatment of Compartment Syndrome. Highlight Paper, Orthopaedic Trauma Association Specialty Day, AAOS Annual Meeting, Mar 3, 2001.

R Odland, A Schmidt, B Hunter, L Kidder, J Bechtold, R Pedowitz, A Hargens. Use of Tissue Ultrafiltration for Treatment of Compartment Syndrome. Orthopaedic Trauma Association Annual Meeting, 2000.

Finkemeier CG, Kyle RF, Schmidt AH, Templeman DC, Varecka TF. Prospective, Surgeon-Randomized Study Comparing Reamed Versus Unreamed Tibial Nailing in Open and Closed Tibial Diaphyseal Fractures. American Academy of Orthopaedic Surgeons 65th Annual Meeting, New Orleans, March 19-23, 1998.

Finkemeier CG, Kyle RF, Schmidt AH, Templeman DC, Varecka TF. Prospective, Surgeon-Randomized Study Comparing Reamed Versus Unreamed Tibial Nailing in Open and Closed Tibial Diaphyseal Fractures. Orthopaedic Trauma Association Specialty Day, New Orleans, March 22, 1998.

Finkemeier CG, Kyle RF, Schmidt AH, Templeman DC, Varecka TF. Prospective, Surgeon-Randomized Study Comparing Reamed Versus Unreamed Tibial Nailing in Open and Closed Tibial Diaphyseal Fractures. Orthopaedic Trauma Association Annual Meeting, Louisville, KY, October 17-19, 1997.

Schmidt AH. Humeral Nailing: Current Thoughts. Minnesota Orthopedic Society Annual Meeting, May 8, 1997.

Assessing Morse Taper Function: the Relationship between Assembly Force, Distraction Force, and Design Variables. ASTM Symposium on Modularity of Orthopedic Implants, Nov. 1995.

Nonreamed, Interlocked Tibial Nailing with the AO Universal Distractor. Presented at the American Orthopaedic Association 26th Annual Resident's Conference, Seattle, Washington, March 17-20, 1993.

Pelvic Osteotomy During Reconstruction of Bladder Exstrophy: Comparison of Posterior Iliotomy with Anterior Pubic Ramotomy. Presented at the American Academy of Orthopaedic Surgeon's Annual Meeting, Washington D.C., February 24, 1992.

Assessment of Bone Viability in Patients with Osteomyelitis: Clinical Experience with Laser Doppler Flowmetry. Presented at the Orthopedic Trauma Association Annual Meeting, Seattle, Washington, November 1, 1991.

Pelvic Osteotomy During Reconstruction of Bladder Exstrophy: Comparison of Posterior Iliotomy with Anterior Pubic Ramotomy. Presented at the Western Orthopedic Association Annual Meeting, Tucson, Arizona, October 24, 1991.

**Poster or Scientific Exhibits**

### Schmidt AH, Bosse MJ, O’Toole RV, et al. Is continuous near infrared spectroscopy a reliable method to monitor development of acute compartment syndrome in patients with lower leg injuries? 2017 Military Health System Research Symposium (MHSRS), Orlando, FL. August 28, 2017.

### Stinner D, Davila J, Schmidt AH. Extremity War Injuries Project Team: Maintaining Force Readiness During an Era of Military Transition. Scientific Exhibit #84, American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, Fl. March 2016.

### Impact of Silver Deposition on Staphylococcus aureus Colonization in a Rat Fracture Osteomyelitis Model. Poster # 1910, ORS 2015 Annual Meeting, Las Vegas, NV, March, 2015.

### Lin CA, Heels-Ansdell D, Schmidt AH. “The Intraoperative Interobserver Reliability Of The Orthopaedic Trauma Association Open Fracture Classification Versus The Gustilo-Anderson Classification,” Orthopaedic Trauma Association Annual Meeting. Phoenix, AZ. October 2013. Poster Presentation.

### Hubler K, Westberg JR, Schmidt AH, Kyle RF. Total Hip Arthroplasty For Failed Treatment Of Acetabular Fractures With Prior Open Reduction And Internal Fixation. American Academy of Orthopaedic Surgeons Annual Meeting. Chicago, Il. March 2013. Poster Presentation.

### Jacobson AR, Cole PA, Jones CB, Gilde A, Westberg JR, Schmidt A. Does Anteroinferior Fixation of Midshaft Clavicle Fractures have a Lower Rate of Hardware Removal and Complications?  American Academy of Orthopaedic Surgeons Annual Meeting. Chicago, Il. March 2013. Poster Presentation

### Cole PA, Jones CB, Jacobson AR, Gilde A, Westberg JR, Schmidt A. Does Anteroinferior Fixation of Midshaft Clavicle Fractures have a Lower Rate of Hardware Removal and Complications?  A Multicenter Retrospective Study. Orthopaedic Trauma Association Annual Meeting. Minneapolis, MN. October 2012. Poster Presentation.

### Tornetta P III,  Dale KM, Jones CB, Mullis B, Egol KA, Robinson E,  Bosse MJ, Schmidt AH, Hymes R. The Fate of Patients After a Staged Nonunion Procedure for Known Infection. American Orthopaedic Association 125th Annual Meeting, Washington, DC, June 27-30, 2012.

### Tornetta P III,  Dale KM, Jones CB, Mullis B, Egol KA, Robinson E,  Bosse MJ, Schmidt AH, Hymes R. The Fate of Patients After a Staged Nonunion Procedure for Known Infection. American Academy of Orthopaedic Surgeons Annual Meeting, Poster 512, 2012.

### Schmidt AH, Stannard JP, Heiney JP. Reduction of Impacted Articular Fragments of the Tibial Plateau: A Cadaveric Evaluation of Inflatable Bone Tamps. Orthopedic Trauma Association Annual Meeting, San Antonio, Tx, Oct 12-15, 2011.

Strassmair MK, Rikli DA, Schmidt AH, Walsh TM, Moran SL. A Novel, Multiplanar, and Less Invasive Approach to Distal Radius Fracture Fixation: Early Clinical Experience. Orthopedic Trauma Association Annual Meeting, San Antonio, Tx, Oct 12-15, 2011.

Rationale for Tissue Ultrafiltration as a Potential Treatment for Impending Acute Compartment Syndrome: Increased Fluid Removal Is Associated with Lower Intramuscular Pressure. Orthopedic Trauma Association Annual Meeting, Baltimore, MD, Oct 13-16, 2010.

Do Current Schemes Properly Classify Tibial Plateau Fractures? (No). American Orthopaedic Association 123rd Annual Meeting, San Diego, CA, June 9-12, 2010.

Mechanical Advantages of Locked Plating in Short Segment Fracture Fixation. American Orthopaedic Association 123rd Annual Meeting, San Diego, CA, June 9-12, 2010.

Axelad W, Tseng S, Lee M, Schmidt A, Gardner M, Ricci W, Tornetta P III. Do current schemes properly classify tibial plateau fractures? (No). Orthopedic Trauma Association Annual Meeting, San Diego, CA, Oct. 9-11, 2009.

Richardson CJ, Quickel RR, Heegaard WR, Odland MD, Galicich WE, Schmidt AH, Ney AL. Lessons Learned From the Interstate 35W Bridge Collapse August 1, 2007, Minneapolis, Minnesota. American Society for the Surgery of Trauma Annual Meeting, Maui, HI, Sept. 24-27, 2008.

Lew WD, Bechtold JE, Tsukayama DT, Schmidt AH, Polly DW, Gilley RS, Kyle RF, Chen X.Animal Modeling of Interventions to Promote Fracture Healing in the Face of Adverse Comorbidities Scientific. American Academy of Orthopaedic Surgeons Annual Meeting, Exhibit SE39, San Francisco, CA, March 5-9, 2008.

Schmidt AH, Tvedte E. The Financial Implications of Compartment Syndrome. American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, CA, Feb 14-18, 2007.

Chen X, Schmidt AH, Mahjouri S, Lew WD: BMP-2 and Systemic Antibiotic Induced New Bone to Form in a Chronically Infected Segmental Defect in the Rat Femur. Transactions of 53rd Annual Meeting of the Orthopaedic Research Society, Vol. 32, Poster No. 728, 2007.

### Chen X, Tsukayama DT, Schmidt AH, Bourgeault CA, Lew WD. OP-1 induces new bone in a chronically infected segmental defect in the rat femur. Orthopaedic Research Society 51st Annual Meeting, Washington, DC, February 20-23, 2005.

### Heaney LM, George JA, Schmidt AH, Kyle RF. Effects of Perioperative Aspirin Use on Blood Loss, Hemoglobin Levels and Transfusion Requirements in Patients Undergoing Hip or Knee Arthroplasty. American Academy of Orthopedic Surgeons Annual Meeting, New Orleans, LA, Feb 2-5, 2003.

Chen X, Kidder LS, Schmidt, AH, Lew WD. OP-1 induces bone formation in the presence of bacterial infection in a rat intramuscular osteoinduction model. Transactions Orthopaedic Research Society Annual Meeting, Vol.28 No.1064, New Orleans, Feb 2-5, 2003.

### Kidder LS, Chen X, Schmidt AH, Lew WD. OP-1 induces bone formation in the presence of bacterial infection. 24th Annual Meeting of the American Society for Bone and Mineral Research. San Antonio, TX, Sept 20-24, 2002.

### Schmidt AH, Chen X, Kidder LS, Lew WD. OP-1 Induction of Heterotopic Bone in the Presence of Bacterial Infection. Orthopaedic Trauma Association Annual Meeting, Diego, CA, Oct. 18-20, 2001.

### Heaney LM, Templeman DC, Schmidt AH, Hong BK, Ho M. Critical analysis of a protocol of stacked modalities to prevent symptomatic thromboembolic complications in patients undergoing surgical reconstruction of pelvic and/or acetabular fractures. American Academy of Orthopedic Surgeons Annual Meeting, San Francisco, CA, Feb 28-Mar 4, 2001.

### R Odland, A Schmidt, B Hunter, J Mellema, L Kidder, J Bechtold, A Hargens. Effect of Osmolarity on the Infusion Model of Compartment Syndrome. Orthopaedic Trauma Association Annual Meeting, San Antonio, TX, Oct 2000.

Pujalte JS, Wang JY, Schmidt AH, Tsukayama DT, Kyle RF, Gustilo RB. Degree of Radiographic osteolysis and levels of pro-inflammatory cytokines in joint fluid and sera of revision total hip arthroplasty patients: does a correlation exist? American Academy of Orthopaedic Surgeons 65th Annual Meeting, New Orleans, March 19-23, 1998.

Southwell D, Bechtold JE, Lew W, Schmidt A, Gustilo RB. Improving the detection of acetabular osteolysis through oblique radiographs. Orthopaedic Research Society Annual Meeting, New Orleans, March 16-19, 1998.

**Invited Faculty - Accredited Continuing Medical Education Courses**

Proximal Humerus Fractures, When to Fix, When Not; Tibial Plateau Fractures in the Elderly; Periprosthetic Fractures – Is the Stem Loose? 48th Annual Hennepin County Medical Center Orthopaedic and Trauma Seminar, November 29- Dec 1, 2018.

Displaced Clavicle Fracture: Just Fix It Already; Proximal Humeral Fractures: IM Nailing and other techniques you might not think of. 62nd Annual Edward T. Smith Orthopaedic Lectureship - A Comprehensive Approach to the Shoulder: Arthroscopy, Arthroplasty and Fracture Care. Houston, TX, Nov 16-17, 2018.

Compartment Syndrome: My Diagnostic and Treatment Algorithm. Orthopaedic Trauma Association Annual Meeting, Orlando, FL. Oct. 20, 2018.

Compartment Syndrome: 2018 Orthopaedic Trauma BootCamp. Orthopaedic Trauma Association. Orlando, FL, Oct. 18, 2018.

Fractures of the Hip and Femur. 10th Annual Los Angeles Orthopedic Trauma Symposium, “The Masters Course”. Los Angeles, CA. September 29, 2018.

Periprosthetic Fracture Tips and Tricks: Knee; Compartment Syndrome – What helps make the diagnosis. 13thth Annual San Francisco Trauma Course, San Francisco, CA, April 26-28, 2018.

Treatment of Acute Acetabular Fractures With Total Hip Arthroplasty: When and How To Do It?; Diagnosis and Avoidance of Infection After Failed ORIF of Hip Fractures: Preoperative Screening and Prevention; ORIF vs. Acute Arthroplasty for Common Fractures: What Is The Evidence? Knee. OTA Specialty Day: Case Presentation – Geriatric Acetabular Fracture (Why I Fix and/or Replace).2018 AAOS Annual Meeting, New Orleans, LA, March 6-11, 2018.

Surgical Checklists:  Do They Really Contribute to Patient Safety?; Acute Compartment Syndrome:  Are We Getting Any Better at Diagnosis?; Immediate Arthroplasty in the Elder Patient with an Acetabular Fracture. 2017 Oregon Association of Orthopaedic Surgeons Annual Conference, November 17-18, 2017, Gleneden Beach, Oregon.

Compartment Syndrome; Multi-centre Research in the USA: METRC Consortium, Humeral Shaft Fractures – View from the USA. British Orthopaedic Association Annual Meeting, Liverpool, U.K. Sept 19-21, 2017.

Fractures About the Shoulder; Periprosthetic fractures—Replace them!; The approach to Pilon Fractures in 2017. Atlantic Provinces Orthopaedic Society Annual Meeting, Halifax, Nova Scotia, Sept 8-9, 2017.

Supracondylar Femur Fracture- What Works?; Distal Tibia Fractures Nail vs. Plate; Innovation in Proximal Humerus Fixation. 29th Annual Orthopaedic Trauma Course. New York City, NY, May 5-6, 2017.

OTA Past-Presidential Message: Standardization and Systems: Steps We Must Take (Together); Preferred Management of Femoral Neck Fractures: Mini-Debate / THA; Compartment Syndrome in the Lower Leg: Avoiding Disaster. 12th Annual San Francisco Trauma Course, San Francisco, CA, April 27-28, 2017.

Treatment of Acute Acetabular Fractures With Total Hip Arthroplasty: When and How To Do It?; Diagnosis and Avoidance of Infection After Failed ORIF of Hip Fractures: Preoperative Screening and Prevention; ORIF vs. Acute Arthroplasty for Common Fractures: What Is The Evidence? Knee. AAOS Annual Meeting, San Diego, CA, March XX, 2017.

Decision Making for Older Femoral Neck Fractures-Who Gets a Hemi and Who Gets a Total Hip? Do I Use Cement or Press Fit? OTA Annual Meeting, Washington, DC, Oct 9, 2016.

ORIF vs. Acute Arthroplasty for Common Fractures: What Is The Evidence? Knee. OTA Annual Meeting, Washington, DC, Oct 8, 2016.

Compartment Syndrome in Tibial Plateau Fractures; Preventing infection in open Foot Fractures. 11th Annual San Francisco Trauma Course, San Francisco, CA, April 28-30, 2016.

ORIF vs. Acute Arthroplasty for Common Fractures: What Is The Evidence? Knee. OTA Specialty Day, AAOS Annual Meeting, Orlando, FL, March 5, 2016.

Compartment Syndrome and DVT; Tibia Fractures; Clavicle Fracture Debate: Nonoperative Management; Hip Fractures: Indications for Total Hip Arthroplasty.11th Annual Current Advances in Orthopaedic Sports Medicine and Trauma. Marco Island, FL, Feb 11-14, 2016.

How to Recover From a Case Gone Wrong; Compartment Syndrome; Clinical Practice Guidelines – Can I learn to Live With Them. Orthopaedic Trauma & Fracture Care: Pushing the Envelope. San Diego, CA, Jan. 28-31, 2016

Proximal Femur Fractures; Pelvis and Acetabulum. AOTrauma North America Trauma Update: Tips and Tricks for Orthopedic Surgeons. Marco Island, FL, Nov. 11-15, 2015

Need talks Orthopaedic Trauma Association Annual Meeting. San Diego, Ca, dates 2015.

Acetabular Fracture Indications – The Gray Zone; Practice Guidelines – Do They Affect Policy and Reimbursement?; Salvaging Failed Fracture Fixation in the Elderly - Hip. 10th Annual San Francisco Trauma Course, San Francisco, CA, April 30-May 2, 2015.

Compartment Syndrome; Ankle Fracture Update; New Perspectives on Clavicle Fractures; Common Errors in Hip Fracture Surgery; DVT – What’s New in 2015? 10th Annual Current Advances in Orthopaedic Sports Medicine and Trauma. Naples, FL, March 5-8, 2015.

Posterior Wall Acetabular Fractures. Orthopaedic Trauma Boot Camp. Comminuted Patella Fractures. International Focus Forum. Orthopaedic Trauma Association Annual Meeting. Tampa, FL, Oct 15, 2014.

Keynote Address: Systems and Standardization: Steps We Must Take Together; Bugs and Biofilms: When to Keep the Hardware?; THA for the Failed Proximal Femur Femur Fracture; Compartment Syndrome: Diagnosis and Treatment in 2014. 9th Annual San Francisco Trauma Course, San Francisco, CA, April 23-25, 2014.

Acute Total Hip Replacement for Geriatric Acetabular Fractures. In Instructional Course Lecture: Geriatric Fractures, The Role of Immediate Arthroplasty, American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, March 12, 2014. Moderator and Speaker.

Trauma: Knee and Tibia. In Trauma Update, American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 11, 2013. Speaker.

Clavicle Fractures: Which Ones Really Should be Fixed. In Symposium: Common Fractures – What’s the Evidence? American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 11, 2013. Speaker.

Pilon Fractures; Keynote Address: Standardizations and Systems: Steps We Must Take. Caribbean Trauma Update. San Juan, Puerto Rico, Feb 15-16, 2014.

ORIF Tibial Plateau Fracture - Technique; Compartment Syndrome – New Diagnostic Methods; Periprosthetic Fractures About the Hip – Plating Technique. HCMC Orthopedic and Trauma Conference. Minneapolis, MN, Nov 21-21, 2013.

Clavicle Fractures; Current Management; The Value of Hip Fracture Pathways; James O. Johnston Memorial Lecture: Standardization and Systems – Steps we must take together; Periprosthetic Fractures of the Distal Femur. James Johnston Orthopedic Symposium, Kaiser Permanente Medical Group, Berkeley, CA, Nov 15, 2013.

Posterior Wall Acetabular Fractures. Orthopaedic Trauma Boot Camp, Phoenix, AZ, Oct 9, 2013.

Hemi, BI, or Total: What Type & Why; Bisphosphonate-Associated Femoral Fracture Pathophysiology and Treatment. Current Solutions in Orthopaedic Trauma, Miami, FL, Sept 20-22, 2013.

Infected Fractures: Principles of Treatment; Treatment of Proximal Femoral Fractures.

Treatment of Difficult Fractures Around the World. 2013 International Orthopaedic Conference. Tri-Cities, WA, Sept. 10-13, 2013.

Recognizing Disability, Lower-Extremity Case-Based Instructional Course Lecture. Canadian Orthopaedic Association, Winnipeg, CA, June 21, 2013.

Workshop: Hip/Femur-Periprosthetic Femur Fractures; Acutely Infected Tibia Fractures: When to Keep or Remove the Hardware?; Displaced Femoral Neck Fractures: Hemiarthroplasty vs Total Hip Replacement; Hip:  Total Hip Replacement Following a Proximal Femur Fracture. 8th Annual San Francisco Trauma Course, San Francisco, CA, May 16-18, 2013.

Humeral Plating. Orthopedic Trauma Association Specialty Day, Chicago, IL, March 23, 2013. Speaker.

Acute Total Hip Replacement for Geriatric Acetabular Fractures. In Instructional Course Lectures: Geriatric Fractures, The Role of Immediate Arthroplasty, American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 20, 2013. Moderator and Speaker.

Trauma: Knee and Tibia. In Trauma Update, American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 19, 2013. Speaker.

Precontoured Plating for Periarticular Fractures; What’s new in Timing and Debridement of Open Fractures; Periprosthetic Fractures of the Hip; Acute THA for Acetabular Fractures. Orthopedics Today Hawaii 2013, Jan 16, 2013.

Proximal Humeral Fractures – The Case for Nonoperative Treatment; Infection Prevention in Total Joint Replacement – Will We Ever Beat The Bugs?; Periprosthetic Fracture – After TKA. HCMC Orthopedic and Trauma Conference. Minneapolis, MN, Nov 15-17, 2012.

The Distal Femoral Periprosthetic Fracture: What to Do! ; Compartment Syndromes and Their Treatment; Hemi, BI, or Total: What Type & Why; How Do I Treat Acute Post Operative Infections; Non/Mal -union after Intertroch Fractures: What do I do now? Current Solutions in Orthopaedic Trauma, Miami, FL, Nov 9-11, 2012.

Evidence Based Orthopaedics: Smoking/NSAIDS and Fracture Healing; Compartment Syndrome: Pathophysiology; Compartment Syndrome: Invasive and Non-Invasive Monitoring; Workshop: Pilon Fractures: Staged Treatment. 7th Annual San Francisco Trauma Course, San Francisco, CA, April 19-22, 2012.

Acute Total Hip Replacement for Geriatric Acetabular Fractures. In Instructional Course Lectures: Geriatric Fractures, The Role of Immediate Arthroplasty, American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, CA, Feb. 9, 2012. Moderator and Speaker.

Distal Femoral Shaft Fractures: Rodding Vs. Plating; What’s new in Treatment of Open Femoral Shaft Fractures; The Place for Closed Treatment of Tibial Plateau Fractures; Current Open Treatment of Tibial Plateau Fractures; Compartment Syndrome: Current Diagnosis and Treatment Video. Orthopedics Today Hawaii 2012, Jan 17, 2012.

Proximal Humeral Fractures: Is Operative Intervention Always Necessary? AAOS/OTA Strategies and Tactics in Orthopaedic Extremity Trauma, Rosemont, IL, Dec 1-3, 2011.

IM Fixation of the Distal Radius – A Novel Approach; Supracondylar Plates for the Femur – When and How; Compartment Syndrome – Diagnosing; THA for Fracture Dislocation of the Hip in the Elderly; Periprosthetic Fractures of the Hip. HCMC Orthopedic and Trauma Conference. Minneapolis, MN, Nov 18-20, 2011.

The Distal Femoral Periprosthetic Fracture: What to Do! ; Compartment Syndromes and Their Treatment; Hemi, BI, or Total: What Type & Why; How Do I Treat Acute Post Operative Infections; Non/Mal -union after Intertroch Fractures: What do I do now? Current Solutions in Orthopaedic Trauma, Boca Raton, FL, Nov 11-13, 2011.

Femoral Neck Fractures. Orthopaedic Trauma Association Resident’s Comprehensive Fracture Course, San Antonio, Tx, Oct. 13, 2011.

Invasive Compartment Monitoring. Orthopaedic Trauma Association Annual Meeting, Basic Science Focus Forum, San Antonio, Tx, Oct. 12, 2011.

Diaphysis Defects: Optimal Management; Unstable Peritrochanteric Fracture: Intraoperative Indicators of Poor Outcome; Bioskills Workshop:Periprosthetic Femur Fracture. 6th Annual San Francisco Trauma Course, San Francisco, CA, April 29-May 1, 2011.

Fragility and Periprosthetic Fractures; A Fresh Approach to Compartment Syndromes: Can We Safely Treat More Patients Without Fasciotomy? Michigan Orthopaedic Society Annual Orthopaedic Trauma Program, April 28, 2011.

Compartment Syndrome (speaker); Hip Fractures (panelist); Periprosthetic Fractures (panelist). Orthopedic Trauma Association Specialty Day, San Diego, CA, February 19, 2011.

Locked Plates: Shouldn’t Everyone Have One? Geriatric Orthopedic Fracture Conference. St. Paul, MN, Dec 3, 2010.

Combined Tibial Shaft and Tibial Plateau Fractures. HCMC Orthopedic and Trauma Conference. Minneapolis, MN Nov 19, 2010.

EMTALA and Orthopaedics. HCMC Orthopedic Nursing Conference. Minneapolis, MN, Nov 18, 2010.

Diagnosis of Infection: Are We Getting Any Better? Orthopaedic Trauma Association Annual Meeting, Baltimore, MD, Oct. 13-16, 2010.

Femoral Neck Fractures. Orthopaedic Trauma Association Resident’s Comprehensive Fracture Course, Baltimore, MD, Oct. 13-16, 2010.

Soft Tissue Injuries and Compartment Syndrome; Nonunions. AO Resident’s Basic Fracture Care, Minneapolis, MN, Aug 12-14, 2010.

Hip Dislocations: A Thing of the Past?; Highly-crosslinked Polyethylene: The New Standard? Futura 2010, Groupe d’Etudes Pour La Chirugie Osseuse. Paris, France, May 7-8, 2010.

Pilon Fractures: Current Treatment and Outcomes; Covering the Emergency Room: EMTALA and Transfers. 5th Annual San Francisco Trauma Course, San Francisco, CA, April 22-24, 2010.

Avoiding Complications in Common Fractures – Proximal Humerus. Orthopedic Trauma Association Specialty Day, New Orleans, LA, March 13, 2010. Speaker and Session moderator.

Reaming: Science and Progress, Periprosthetic Fractures. In Instructional Course Lectures: Intramedullary Nailing of the Femur, American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, March 12, 2010.

Compartment Syndrome, Unstable Pelvic Ring Injuries. In Instructional Course Lectures: Acute Trauma: Getting Through the Night, American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, March 10, 2010. Speaker and Session Moderator.

Compartment Syndrome – What’s New in 2010; Proximal Humerus Fracture – When to Use Arthroplasty; Role of THA in Femoral Neck and Acetabular Fractures. Caribbean Trauma Update: Tips and Tricks for Orthopaedic Surgeons. Cancun, Mexico, Feb. 4-7, 2010.

Proximal Humeral Fracture Decision-Making: ORIF vs Arthroplasty; DVT Prophylaxis: When and What Should We Use in Trauma Patients?; Moderator – Lab Exercise: ORIF Proximal Humerus Fractures with PHILOS Plate. Advances in Operative Fracture Management. Davos, Switzerland, Dec 13-18, 2009.

Clinical Research: We want you!; Predictors and diagnosis of Post-operative infection; Algorithmic approach to periprosthetic fractures. 2009 Orthopedic Trauma Association Annual Meeting, San Diego, CA, Oct. 8, 2009.

The use of BMPs in the setting of infection: Unsafe or advantageous? Basic Science Focus Forum, 2009 Orthopedic Trauma Association Annual Meeting, San Diego, CA, Oct. 8, 2009.

Humeral Shaft Fractures, Open Fractures. AO Resident’s Basic Fracture Care, La Jolla, CA, Aug 27-30, 2009.

Biomembranes: Good and Bad. 2009 SIGN Conference. Richland, WA, 8/13/09.

EMTALA: What Does This Mean for Me?; Selecting an Osteobiologic: Diaphysis; Post-Operative Infections: Acute Management; Decreasing Morbidity and Mortality: Perioperative Management; Bioskills Lab:Distal Tibia Fracture, External Fixation-Assisted Plating. 4th Annual San Francisco Trauma Course, San Francisco, CA, April 30-May 2, 2009.

Infection After Internal Fixation; Bone Defects, Total Hip Arthroplasty for Acute Acetabular Fractures. Thirteenth All-Alaska Orthopedic Conference, Alyeska, AK, April 3-6, 2009.

Advances in Femoral Nailing; Proximal Humerus Decision Making: Fix vs. Replace; Intertrochanteric Fractures: When I Use a Plate/ When I Use a Nail. AO Advanced Principles of Operative Fracture Management Course, Sun Valley, Idaho, March 15-20, 2009.

Posterior Wall Fractures: All Do Not Do Well. Orthopedic Trauma Association Specialty Day, Las Vegas, NV, Feb. 28, 2009.

Acute Compartment Syndrome, Acute Infection, Management of Bone Loss. In Instructional Course Lectures: Current Management of Tibia Fractures, American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NC, Feb. 27, 2009.

Compartment Syndrome, Unstable Pelvic Ring Injuries. In Instructional Course Lectures: Acute Trauma: Getting Through the Night, American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV, Feb. 26, 2009. Speaker and Session Moderator.

Management of Bone Defects and Nonunions. Society of Military Orthopedic Surgeons Annual Meeting, Las Vegas, NV, Dec. 9, 2008.

4-Part Proximal Humeral Fractures: Indications and Outcomes; Perioperative Infection – What is the Future. Orthopaedic Trauma Association Annual Meeting, Denver, CO, Oct. 16-18, 2008.

Antibiotic coated implants: Is there any evidence? Orthopaedic Trauma Association Basic Science Focus Forum, Denver, CO, Oct. 15, 2008.

Trochanteric Femur Fractures: When to Nail and When to Plate; ORIF versus Hemiarthroplasty for Proximal Humeral Fractures. Napa Trauma Symposium, Sept 18-20, 2008.

Clavicle Fractures - When Should We Operate?, Clavicle Malunions and Nonunions, Peritrochanteric Femur Fractures – Advantages of Plating. Boston Orthopaedic Trauma Symposium, Sept 12-13, 2008.

Proximal Humeral Fractures. AO Basic Principles and Techniques of Operative Fracture Management Course for Residents. Madison, WI, August 21-24, 2008.

Compartment Syndrome. Orthopedic Trauma Association Specialty Day, San Francisco, CA, March 6, 2008.

Compartment Syndrome, Unstable Pelvic Ring Injuries. In Instructional Course Lectures: Acute Trauma: Getting Through the Night, American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, CA, Mar. 7, 2008. Speaker and Session Moderator.

Acute Compartment Syndrome, Acute Infection, Management of Bone Loss. In Instructional Course Lectures: Current Management of Tibia Fractures, American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, CA, Mar. 6, 2008.

Periprosthetic Femur Fractures; Compartment Syndrome. Orthopedic Trauma: Concepts to Controversies. Snowmass, CO, Feb 12-16, 2008.

Distal Third Tibia Fractures – Reduction Techniques/Implant Choice; Segmental Bone Defects – When and How. Transforming Orthopedics. Vail, CO, Feb 1-3, 2008.

Distal Femur Fractures Should Be Plated; THA for Acetabular Fractures. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, Oct 25-27, 2007.

Symposium: *Evidence-Based Approach to Bringing New Orthopaedic Devices to Market****.*** Comparing to other Standards: What comparisons are valid and what outcomes are important? Orthopedic Trauma Association Annual Meeting, Oct 19, 2007.

Locked Plating of Distal Femur Fractures; ORIF versus Hemiarthroplasty for Proximal Humeral Fractures. Napa Trauma Symposium, Sept 26-28, 2007.

3- and 4- Part Intertrochanteric Hip Fractures: Is there still a role for hip screws or other plates? University of Minnesota Geriatric Trauma Seminar, St. Paul, Sept 7, 2007.

Total Hip Arthroplasty for Periarticular Fractures of the Hip; Orthopedic Infections: Fractures and Hardware Management; When to Use Locked Plating; Proximal Third Tibia Fractures – Nailing. Transforming Orthopaedics: Improving Outcomes Through Technology. The Canyons, Utah, March 14-18, 2007.

Fragility Fractures and Periprosthetic Fractures. In Symposium: The Changing Face of Orthopaedic Trauma, American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, CA, Feb. 16, 2007.

Acute Compartment Syndrome, Acute Infection, Management of Bone Loss. In Instructional Course Lectures: Current Management of Tibia Fractures, American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, CA, Feb. 14, 2007.

Autologous Bone Marrow Aspiration. Orthopedic Trauma Association Basic Science Forum, Phoenix, AZ. Oct 2006.

Proximal Humeral Fractures: Locked Plating versus Hemiarthroplasty; Ipsilateral Femoral Neck/Shaft Fractures. Napa Trauma Symposium, Sept 20-22, 2006

Acute THA Following Acetabular Fracture in the Elderly; Proximal Humerus and Humeral Shaft Fractures. University of Minnesota Geriatric Trauma Seminar, St. Paul, Sept 15, 2006.

Hemiarthroplasty / Total Hip Replacement for Femoral Neck Fractures; ORIF of Proximal Tibia Fractures. Trauma Update. Portland, OR. Aug 5, 2006

Biomechanics of Intramedullary Nailing. Treatment Options for Difficult Fractures: An Advanced Technology Symposium. Minneapolis, MN, Feb. 3, 2006.

Plate Fixation of Proximal Humeral Fractures; Management of Acute Infections; Bioskills Lab – Proximal Humeral Fractures. Vail Orthopedic Symposium – Trauma Update, January 20 – 22, 2006.

Acute Management of Pelvic Injuries; What’s New in Compartment Syndrome; Challenges to Fracture Care in the Community, Is There a Place for THA in Fresh Femoral Neck Fractures?, Tibial Plateau Fixation Lab. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, Nov 17-19, 2005.

Femoral Neck Fractures: Role of THA. 25th Annual HCMC Nursing Conference, Minneapolis, Nov. 17, 2005.

Displaced Femoral Neck Fractures in the Elderly – Optimal Arthroplasty. Orthopedic Trauma Association Basic Science Forum, Ottawa, Canada. Oct 2005.

### Proximal Humerus Fractures – Contemporary Options; Tibial Plateau Strategies. Midwest Trauma Summit, Madison, WI, Sept. 30 – Oct 1, 2005.

### Acute Management of Pelvic Fractures; Closed Tibial Fractures; Femoral Head Fractures and Hip Dislocations; Humeral Shaft Fractures; Tibial Plateau Fractures: External Fixation versus Locked Plating. Edinburgh International Trauma Course, Edinburgh, August 15-20, 2005

### Arthroplasty for Fractures of the Hip and Pelvis; Outcomes of Periprosthetic Fractures; Salvage Procedures for Failed TKA; Periprosthetic Fractures After TKA – Decision-Making. 5th Annual Midwest Arthroplasty Course: Hip & Knee, Minneapolis, MN June 3-5, 2005

### Proximal Humeral Fractures: When to Replace; Elbow Dislocations: Associated Injuries and Protocols for Treatment; Open Tibia Fractures: When not to Nail Immediately. Orthopaedic Trauma Association 2005 Resident Regional Fracture Update, Rosemont, IL, April 15-16, 2005.

### Symposium: What’s New in American Common Fractures - Proximal Humeral Fractures. Academy of Orthopedic Surgeons Annual Meeting, Washington DC, Feb 24, 2005.

The State of Minimally Invasive Hip Replacement Surgery in the United States; Total Hip Arthroplasty for Acute Management of Acetabular Fracture. 29th GECO (Group for the Perfection of Orthopedics and Traumatology), Les Arcs, France, Jan 15-20, 2005.

Difficult Elbow Fractures; Periprosthetic Fractures After TKA; Nonunions of the Lower Extremity. Current Advances in Surgery: Avoiding Complications and Improving Outcomes in Orthopaedic Surgery, Cancun, Mexico, Dec 7-9, 2004.

Proximal Humeral Fractures: Role of Arthroplasty; Update on Compartment Syndrome; Diagnosis of the Infected Total Knee Replacement. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, Nov 11-13, 2004.

Proximal Humerus Fractures: Replacement versus Internal Fixation. 24th Annual HCMC Nursing Conference, Minneapolis, Nov. 11, 2004.

Grand Rounds, Medical College of Wisconsin: Compartment Syndrome. Nov 3, 2004.

Symposium: “Current Controversies in Elderly Hip Trauma: Femoral neck fractures in the elderly – We should fix them”. Given at the Orthopaedic Trauma Association Annual Meeting, Ft. Lauderdale, FL, Oct. 9, 2004.

Proximal Humeral Fractures, Lab – External Fixation. AO Principles of Fracture Management for Residents. Minneapolis, MN, Aug 18-21, 2004.

### Compartment Syndrome, Proximal Humeral Fractures, Tibial Fractures. Southeast Trauma Symposium, Destin, Fl, Aug 6-9, 2004.

### Slide-Video Presentation - Nailing of Subtrochanteric Fractures, Reduction of Subtrochanteric Fractures; Fixation of Distal Femur Fractures; Lab – Fasciotomy/Posterolateral Bone Grafting/Fasciocutaneous Flaps. Techniques in Orthopaedic Trauma, American Academy of Orthopaedic Surgeons, Rosemont, IL, April 16-18, 2004.

### Proximal Humeral Fractures: Locked Plating. Orthopedic Trauma Association Specialty Day, San Francisco, CA, March 13, 2004.

### Percutaneous Plating of Tibial Plateau Fractures. Instructional Course Lecture: Minimally Invasive Fracture Fixation. American Academy of Orthopedic Surgeons Annual Meeting, San Francisco, CA, March 11, 2004.

Treatment of Open Tibial Fractures; Management of Infected Tibial Fractures. Emerging Trends in Lower Extremity Trauma. Whistler, B.C., Feb 28, 2004.

Proximal Humeral Fractures: Classification and Overview; Use of Antibiotics in Open Fractures; Reamed versus Nonreamed Nailing of Tibial Shaft Fractures; Minimally Invasive Fracture Fixation – Proximal Humerus Technique; Panel Debate – Compartment Syndrome. Vail Orthopedic Symposium – Trauma Update, January 22 – 25, 2004.

Radial Head Fractures: The Key to Elbow Stability; Scapulothoracic Dissociation – What to Watch For; Debate – Humeral Shaft Fractures: Nail It! Vail Orthopedic Symposium – Upper Extremity Trauma Update, January 19 - 21, 2004.

Treatment of Periprosthetic Supracondylar Fractures Following Total Joint Arthroplasty; Current Treatment of Infected Open Fractures. Current Advances in Surgery: Avoiding Complications and Improving Outcomes in Orthopaedic Surgery, Cancun, Mexico, Dec 9-11, 2003.

Lab Leader – Forearm Plating. Orthopaedic Trauma Association Resident’s Fracture Course, Salt Lake City, UT, Oct. 8-11, 2003.

Care of Infected Fractures (Moderator). Presented at the Orthopaedic Trauma Association Annual Meeting, Salt Lake City, UT, Oct. 11, 2003.

Lab Leader – Periprosthetic Fractures. Orthopaedic Trauma Association Annual Meeting, Salt Lake City, UT, Oct. 10, 2003.

### Deep Vein Thrombosis: Prophylaxis and Treatment, Pharmacologic. Presented at the Orthopaedic Trauma Association Annual Meeting, Salt Lake City, UT, Oct. 10, 2003.

Tibia Fractures (Moderator). Presented at the Orthopaedic Trauma Association Annual Meeting, Salt Lake City, UT, Oct. 9, 2003.

### Proximal Humeral Fractures: Indications and Results of ORIF and IM Nailing. Trauma Update, Pasadena, CA, Sept 19-21, 2003.

### Minimally Invasive Hip Surgery. Minnesota Chapter NAON, March 2003.

### Percutaneous Fixation of Proximal Humerus Fractures. Instructional Course Lecture: Minimally Invasive Fracture Fixation. American Academy of Orthopedic Surgeons Annual Meeting, New Orleans, LA, February 7, 2003.

### Fixation of Tibial Shaft Fractures. Instructional Course Lecture: Tibial Shaft Fractures: Part 1: Decision-Making. American Academy of Orthopedic Surgeons Annual Meeting, New Orleans, LA, February 7, 2003.

Proximal Humeral Fractures: Classification and Overview; Use of Antibiotics in Open Tibia Fractures; Reamed versus Nonreamed Nailing of Tibial Shaft Fractures. Vail Orthopedic Symposium – Trauma Update, January 15 - 18, 2003.

Scapulothoracic Dissociation. Vail Orthopedic Symposium – Upper Extremity Trauma Update, January 13, 2003.

Nailing of Proximal Humeral Fractures. Masters Course. Davos, Switzerland, Dec. 10, 2002.

Diaphyseal Fractures. Principles of Fracture Management. Davos, Switzerland, Dec. 10, 2002.

Sleep Apnea – What is it and Why should I Care?; Implant Associated Infections; Technique of Antegrade and Retrograde Femoral Nailing, Tibia Fracture Update; Staged Management of Complex Tibial Plateau Fractures. Current Advances in Surgery: Avoiding Complications and Improving Outcomes in Orthopaedic Surgery, St. Thomas, U.S. Virgin Islands, Dec 5-7, 2002.

Compartment Syndrome – Fractures with Vascular Injury. Trauma Update, Orthopaedic Trauma Association, Nashville, TN, Nov 22-23, 2002.

Femoral Neck Fractures; Periprosthetic Fractures. Minimally Invasive Surgery in Lower Extremity Fractures. Amelia Island, FL, Nov 14, 2002

New Techniques for Monitoring and Treatment of Compartment Syndrome; DVT Prevention – Factor XA Inhibition; Technique of Posterior Capsular Repair During THA. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, October 17-19, 2002.

Scapulothoracic Dissociation. 22nd Annual HCMC Nursing Conference, Minneapolis, Oct 17, 2002

Lab Instructor – Forearm Plating. Orthopaedic Trauma Association Resident’s Fracture Course, Toronto, CA, Oct. 10-13, 2002.

### Care of Infected Fractures (Moderator). Presented at the Orthopaedic Trauma Association Annual Meeting, Toronto, CA, Oct. 13, 2002.

### What’s New in Common Fractures: Proximal Humerus. Presented at the Orthopaedic Trauma Association Annual Meeting, Toronto, CA, Oct. 11, 2002.

### Treatment of Acute Compartment Syndrome. SICOT, San Diego, CA, August 29, 2002.

### Pilon Fractures: The Role of External Fixation. Management of Common Fractures, American Academy of Orthopaedic Surgeons, Rosemont, IL, June 20-23, 2002.

### What’s New in Fracture Care? 2002 Spring Training Conference. Minneapolis, MN, June 6-7, 2002.

### Femoral Neck Fractures: ORIF vs. hemiarthroplasty, Periprosthetic Hip Fractures, Antibiotic Beads. AAOS/OTA Orthopaedic Trauma: Current State of the Art, Santa Fe, NM May 2-5, 2002.

### Percutaneous Fixation of Proximal Humerus Fractures. Instructional Course Lecture: Minimally Invasive Fracture Fixation. American Academy of Orthopedic Surgeons Annual Meeting, Dallas, TX, February 13, 2002.

### Fixation of Tibial Shaft Fractures. Instructional Course Lecture: Tibial Shaft Fractures: Part 1: Decision-Making. American Academy of Orthopedic Surgeons Annual Meeting, Dallas, TX, February 13, 2002.

### Complications of Femoral Neck Fractures. Instructional Course Lecture: Femoral Neck Fractures. American Academy of Orthopedic Surgeons Annual Meeting, Dallas, TX, February 14, 2002.

Treatment of Open Tibial Fractures – Grades 1-IIIA; Reamed versus Nonreamed Nailing of Tibial Shaft Fractures; Video Techniques – Proximal Tibial Nailing. Vail Orthopedic Symposium – Trauma Update, January 24 - 27, 2002.

Scapulothoracic Dissociation; Humeral Shaft Fractures – Nonunion; Proximal Humerus Fractures Debate - Hemiarthroplasty. Vail Orthopedic Symposium – Upper Extremity Trauma Update, January 21 - 23, 2002.

Percutaneous Screw Fixation; New Developments in Plating; Nailing with the Proximal Humeral Nail – Spiral Blade. Experts Meet Experts – Proximal Humeral Fractures. Davos, Switzerland, Dec. 12, 2001.

Management of Humeral Shaft Fractures – Preventing Complications; Implant Associated Infections; Assessment of Pelvic Ring Injuries; Management of Complex Proximal Femur Fractures. Current Advances in Surgery: Avoiding Complications and Improving Outcomes in Orthopaedic Surgery, St. Thomas, U.S. Virgin Islands, Dec 4-6, 2001.

Minimally Invasive Fixation of Complex Tibial Plateau Fractures; Plating of Supracondylar Femur Fractures. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, November 29-31, 2001.

New Bone Graft Substitutes. 21st Annual HCMC Nursing Conference, Minneapolis, Nov 29, 2001

Reamed Nailing of Tibial Fractures; Periprosthetic Fractures of the Femur; Retrograde Femoral Nailing. Oregon Association of Orthopedists/Oregon Chapter of Western Orthopaedic Association Annual Meeting: Salishan Lodge, Nov 8-10, 2001

Proximal Humerus Fractures; Infections; Lab Instructor – Distal Humeral Plating. Orthopaedic Trauma Association Resident’s Fracture Course, San Diego, CA, Oct. 18-20, 2001.

### Care of Infected Fractures (Moderator). Presented at the Orthopaedic Trauma Association Annual Meeting, San Diego, CA, Oct. 18-20, 2001.

Minimally Invasive Plating of Fractures, Proximal Humerus Fractures. Loyola University 4th Annual Trauma Symposium, Chicago, IL, Sep 29, 2001.

Minimally Invasive Plating of Fractures. Brooke Army Medical Center 7th Annual Trauma Symposium, San Antonio, TX, Aug 6, 2001.

Percutaneous Plating. Trauma Update, Orthopaedic Trauma Association, Providence, RI, July 20-22, 2001.

### Principles and Use of the Femoral Distractor; Making Antibiotic Beads; Antiglide Plating; Proximal Humeral Fractures. AAOS/OTA Orthopaedic Trauma: Current State of the Art, Marco Island, FL May 3-4, 2001.

### Percutaneous Femoral Nailing; Minimally Invasive Fixation of Complex Tibial Plateau Fractures. Instructional Course Lecture: Minimally Invasive Fracture Fixation. American Academy of Orthopedic Surgeons Annual Meeting, San Francisco, CA, February 28, 2001.

### Fixation of Tibial Shaft Fractures. Instructional Course Lecture: Tibial Shaft Fractures: Part 1: Decision-Making. American Academy of Orthopedic Surgeons Annual Meeting, San Francisco, CA, March 1, 2001.

### Evidence-based Management of Femoral Neck Fractures; Ipsilateral Femoral Neck-shaft Fractures. Instructional Course Lecture: Femoral Neck Fractures. American Academy of Orthopedic Surgeons Annual Meeting, San Francisco, CA, February 28, 2001.

Treatment of Open Tibial Fractures – Grades 1-IIIA; Reamed versus Nonreamed Nailing of Tibial Shaft Fractures; Scapulothoracic Dissociation; Humeral Shaft Fractures – IM Nailing. Vail Orthopedic Symposium – Trauma Update, January 18 - 21, 2001.

Decision-Making in Pelvic Ring Injuries; Subtrochanteric Femur Fractures: The Role of Plating; New Advances in Compartment Syndrome; Total Hip Replacement After Acetabular Fracture. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, November 2-4, 2000.

Lab Instructor – Periprosthetic Fractures. Orthopaedic Trauma Association Annual Meeting, San Antonio, TX., Oct. 13, 2000.

Fractures of the Proximal Humerus - Evaluation and Classification; Prosthetic Replacement after Proximal Humeral Fracture; Lab Instructor - Humeral Nailing. Orthopaedic Trauma Association Resident’s Fracture Course, San Antonio, TX, Oct. 11-14, 2000.

Soft Tissue Injuries: Open and Closed; Management of Open Fractures. AO/ASIF Resident’s Basic Fracture Course, Birmingham, Al, Sept. 14-17, 2000.

Infections After Internal Fixation, Percutaneous Plating. Trauma Update, Orthopaedic Trauma Association, Kansas City, MO, April 13-14, 2000.

Internal Fixation of Femoral Neck Fractures: Technique in the Elderly; Techniques to Improve Outcome After Tibial Nailing; Grade III Open Tibial Fractures: Is IM Fixation Safe?. Instructional Course Lectures, American Academy of Orthopaedic Surgery Annual Meeting, Orlando, FL, March 16, 2000.

Reamed Nailing of Open Tibial Fractures; Antegrade Femoral Nailing; Technique: Indirect Reduction of Tibial Plateau Fractures. 11th Annual Current Concepts in Trauma, Aspen, Colorado, Feb. 2 - 4, 2000.

Reamed versus Nonreamed Nailing of Tibial Shaft Fractures; Classification of Periprosthetic Fractures. Vail Orthopedic Symposium – Trauma Update, January 20 - 22, 2000.

Radiographic Evaluation of Pelvic Ring Injury, Current Management of Open Tibial Fractures. Lab Instructor: Humeral Nailing. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, November 18-20, 1999.

Fractures of the Proximal Humerus - Evaluation and Classification; Wound Healing – Techniques of Debridement; Lab Instructor - Humeral Nailing. Orthopaedic Trauma Association Resident’s Fracture Course, Charlotte, N.C., Oct. 21-24, 1999.

Lab Instructor – Fractures of the Pelvis. Orthopaedic Trauma Association Annual Meeting, Charlotte, N.C., Oct. 22, 1999.

What’s New in the Treatment of Fractures of the Lower Extremities and Pelvis. What’s New In Orthopaedics: Innovations and Challenges of the New Millennium, Boyne Highlands, Michigan, August 21, 1999.

Controversies in Intramedullary Reaming; Blood Management in Orthopaedic Surgery. Grand Rapids Orthopaedic Residency Program Annual Alumni Meeting, June 4, 1999.

Evaluation of Pelvic Ring Injuries. American Academy of Orthopaedic Surgeons Course, Orthopaedic Learning Center, Rosemont, IL, April 8-9, 1999.

Osteolysis, Infected Total Joint Replacement, Proximal Humerus Fractures. Anchorage Orthopaedic Society Annual Meeting, Alyeska, Alaska, March 26-28, 1999.

Reamed versus Unreamed Femoral Nailing. 10th Annual Current Concepts in Trauma, Snowbird, Utah, March 10 - 13, 1999.

Reamed versus Unreamed Nailing of Tibial Shaft Fractures, Periprosthetic Fracture Classification. Vail Orthopedic Symposium – Trauma Update, January 14 - 17, 1999.

Pitfalls in Diagnosis of Pelvic Ring Injury, Controversies in Intramedullary Reaming of Tibial Shaft Fractures, The Role of Closed Treatment for Tibial Fractures, Evaluation of the Painful Total Hip, Morse Tapers. Lab Instructor: Humeral Nailing. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, November 19-21, 1998.

Fractures of the Proximal Humerus - Evaluation and Classification; Wound Healing – Techniques of Debridement; Lab Instructor - Humeral Nailing. Orthopaedic Trauma Association Resident’s Fracture Course, Vancouver, B.C., Oct. 6-10, 1998.

Alternatives to Blood Transfusion in Surgical Patients. Bloodless Medicine and Alternatives to Transfusion, Hennepin County Medical Center, Sept. 11, 1998.

Blood Conservation Challenges in Hip Fractures. Procrit® (Epoetin Alpha) Surgical Blood Management: Advances in Clinical Research and Treatment, Santa Barbara, CA, May 8-9, 1998.

Use of Antibiotics in Open Fractures; Fractures of the Humerus: Plate Fixation. Vail Orthopedic Symposium - Management of Complex Fractures, January 30 - February 1, 1998.

Fractures of the Proximal Humerus: Evaluation and Classification; Moderator: Humeral Shaft Fractures; Lab Instructor: Lag Screw Technique, Tension Band Wire Olecranon, Humeral Nailing, Tibial Pilon External Fixator, Unreamed Tibial Nail, Ankle Fractures. Orthopaedic Trauma Association Resident’s Fracture Course, Louisville, KY., Oct. 17, 1997.

Open Femur Fractures: Current Management; Humeral Nailing: Do's and Don'ts; The Infected Total Knee: Classification and Treatment. Lab Instructor: Supracondylar Femoral Nail, Proximal Humerus Fixation. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, October 3-5, 1997.

Proximal Humerus Fractures. Trauma Update, Ypsilanti, MI, June 13, 1997.

Blood Conservation Challenges in Hip Fractures. Procrit® (Epoetin Alpha) Surgical Blood Management: Advances in Clinical Research and Treatment, Dallas, TX, March 20-23, 1997.

Humeral Fractures: Plating versus Nailing. Vail Orthopedic Symposium - Management of Complex Fractures, January 24, 1997.

Fireside Discussion. AO/ASIF Annual Course: Basic Fracture Management. Davos, Switzerland, December 11, 1996.

Total Shoulder Arthroplasty. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, October 19, 1996.

Fractures of the Proximal Humerus: Evaluation and Classification. Orthopedic Trauma Association Resident’s Fracture Course, Boston, MA., Oct. 1996.

Humeral Nailing, Closed Tibial Fractures: Rodding. Lab Instructor, Humeral Fixation. Trauma Update, Williamsburg, VA, April 19-21, 1996.

Humeral Shaft Fractures: ORIF; Femoral Neck Fractures. Trauma Update, San Francisco, CA, Mar. 16, 1996.

Humeral Shaft Fractures; Management of Open Fractures; Personality of the Injury. AO/ASIF Basic Resident's Course, Portland, Oregon, Jan. 24-28, 1996.

Humeral Shaft Fractures: ORIF. Lab Instructor: Humeral Nailing. Trauma Update, Chicago, IL, Dec. 2, 1995.

Humeral Shaft Fractures: ORIF. Trauma Update, Portland, OR, Oct. 21, 1995.

Impending Fracture Secondary to Osteolysis: When to Operate. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, October 14, 1995.

Fractures of the Proximal Humerus: Evaluation; Fractures of the Proximal Humerus: Prosthetic Replacement. Orthopedic Trauma Association Resident’s Fracture Course, Tampa, Fl., Sept. 1995.

Indications for Fixation of Proximal Femoral Fractures; Postoperative Hints and Implant Removal. AO/ASIF Basic Course for Operating Room Personnel, Minneapolis, MN, August 4-5, 1995.

Humeral Nailing. Presented at Management of Complex Fractures: Problems and Solutions, Vail, Colorado, Jan 20, 1995.

Evaluation of Morse Taper Design. Presented at State of the Art: Total Hip and Total Knee Replacement. Controversies and Solutions. Vail, Colorado, Jan 24, 1995.

Unreamed tibial nailing. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, October, 1994.

Live Surgical Demonstration: Total Knee Arthroplasty. Fourteenth Annual Orthopaedic Nursing Conference, Hennepin County Medical Center, Sept. 30, 1994.

Problems of Taper in Modular Prostheses; The Femoral Neck Fracture of the Elderly: Unipolar vs. Bipolar vs. THR; Surgical Technique: Posterior Approach; The Arthritic Knee with Supracondylar Fracture. Current Concepts in the Management of the Total Hip/Total Knee Patient, Minneapolis, MN, Sept. 23-24, 1994.

Overview of Proximal Humerus Fractures; Subtrochanteric Fractures. Presented at Management of Complex Fractures: Problems and Solutions, Vail, Colorado, Jan 21-22, 1994.

 Proximal Humerus Fractures: Overview. Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, October 21, 1993.

Total Joint Update; Limb Salvage versus Amputation In Major Extremity Trauma. Thirteenth Annual Orthopaedic Nursing Conference, Hennepin County Medical Center, Sept. 24, 1993.

**Presentations: Local Teaching Conferences**

*The Enigma of Acute Compartment Syndrome: Will We Ever Have a Reliable Diagnostic Approach?*” Grand Rounds, University of California, San Francisco, April 25, 2018

*Compartment Syndrome: New Approaches to an Old Problem*. Grand Rounds, Harvard Combined Orthopedic Program, Jan. 15, 2014.

*Life After Residency: The Role of Professional Organizations; Compartment Syndrome: Duke University*, Orthopedic Grand Rounds, Feb. 27, 2013.

*Animal Modeling of Interventions to Promote Fracture Healing in the Face of Adverse Comorbidities*. Grand Rounds, Dept. of Orthopedics and Rehabilitation, Oregon Health and Science University, Portland, July 13, 2009.

Intertrochanteric Fractures: When to nail and when to plate; Postoperative infections: Acute management. Rodney K. Beals Memorial Seminar, Oregon Health and Science University, Portland, July 11, 2009.

Compartment Syndrome – 10 Years. Gustilo Research Day, Univ. of Minnesota Dept. of Orthopaedic Surgery. June 19, 2009.

Proximal Humerus Fractures. Core Curriculum Lecture, Univ. of Minnesota Dept. of Orthopaedic Surgery. March 6, 2009.

Animal Modeling of Interventions to Promote Fracture Healing in the Face of Adverse Comorbidities. Grand Rounds, University of Minnesota Dept. of Orthopaedic Surgery, Oct 24, 2008.

Tissue Ultrafiltration: Advancing Treatment for Compartment Syndrome and Traumatic Brain Injury. Minneapolis Medical Research Foundation Summer/Fall Health Series, Sept. 17, 2008.

Open Fractures. Core Curriculum Lecture, Univ. of Minnesota Dept. of Orthopaedic Surgery. March 23, 2007.

Proximal Humerus Fractures. Core Curriculum Lecture, Univ. of Minnesota Dept. of Orthopaedic Surgery. March 30, 2007.

Fracture Lab: Orthopedic Bootcamp, University of Minnesota, June 20,2006.

Plates in Fractures and Nonunions. University of Minnesota - Mayo Clinic Residents Course, Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, March 10-11, 2006.

Pilon Fractures. University of Minnesota - Mayo Clinic Residents Course, Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, Feb 12, 2005.

Open Fractures. Core Curriculum Lecture, Univ. of Minnesota Dept. of Orthopaedic Surgery. February 11, 2005.

Update on Total Joint Replacement. Third Annual Medical Alley Health Care Technology Conference and Expo, Nov 17, 2004.

Milwaukee Orthopedic Society: Infected Fractures – Pathophysiology of Implant-Related Infection. Nov 2, 2004.

Assessing the Orthopedic Patient, Initial Management of Trauma: “Orthopedic Bootcamp, University of Minnesota, June 29, 2004.

Gap Balancing in Total Knee Replacement. Core Curriculum Lecture, Univ. of Minnesota Dept. of Orthopaedic Surgery. Nov 7, 2003.

Basics of Physical Examination: “Orthopedic Bootcamp, University of Minnesota, June 30, 2003.

External Fixation. University of Minnesota - Mayo Clinic Residents Course, Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, April 5, 2003.

Open Fractures. Core Curriculum Lecture, Univ. of Minnesota Dept. of Orthopaedic Surgery. March 14, 2003.

Tourniquets and Compartment Syndrome. Grand Rounds, University of Minnesota Dept. of Orthopaedic Surgery, August 9, 2002.

Basics of Physical Examination, Initial Management of Trauma, Complications of Trauma: “Orthopedic Bootcamp, University of Minnesota, June 30, 2002.

Basics of Physical Examination, Initial Management of Trauma, Complications of Trauma: “Orthopedic Bootcamp, University of Minnesota, June 30, 2001.

Open Fractures. Core Curriculum Lecture, Univ. of Minnesota Dept. of Orthopaedic Surgery. Feb. 9, 2001.

DVT Prophylaxis in the Geriatric Patient. Grand Rounds, Div. of Geriatric Medicine, Hennepin County Medical Center, Jan,9, 2001.

Basics of Physical Examination, Initial Management of Trauma, Complications of Trauma: “Orthopedic Bootcamp, University of Minnesota, June 2000.

Trauma Update. Grand Rounds, University of Minnesota Dept. of Orthopaedic Surgery, Sept. 24, 1999.

Trauma Update. Grand Rounds, Oregon Health Sciences University Dept. of Orthopaedic Surgery, Sept. 16, 1999.

Basics of Physical Examination, Initial Management of Trauma, Complications of Trauma “Orthopedic Bootcamp”. University of Minnesota, June 1999.

Course Chairman and lecturer, University of Minnesota - Mayo Clinic Residents Course: External Fixation in Trauma, External Fixation: What to Do Next. University of Minnesota - Mayo Clinic Residents Course, Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, April 23-24, 1999.

Alternatives to Blood Transfusion. Presented to the Alaska Orthopaedic Society, March 26, 1999.

Course Chairman and lecturer, University of Minnesota - Mayo Clinic Residents Course: “Osteotomies About the Hip and Knee”. Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, October 23-24, 1998.

Fractures of the Proximal Humerus. Grand Rounds, University of Minnesota Dept. of Orthopaedic Surgery, August 7, 1998.

Intramedullary Nailing. Course Chairman and lecturer, University of Minnesota - Mayo Clinic Residents Course, Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, April 3-4, 1998.

Fractures about the Knee. Course Chairman, University of Minnesota - Mayo Clinic Residents Course, Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, February 22-23, 1998.

Osteolysis: New Research on Early Detection and Clinical Significance. Grand Rounds, OHSU Dept. of Orthopedics and Rehabilitation, August, 1997.

Shoulder Arthroscopy - Bioskills Workshop. Course Chairman. Orthopaedic Learning Center, Hennepin County Medical Center. June 13, 1996.

Intramedullary Nailing. Course Chairman and lecturer, University of Minnesota - Mayo Clinic Residents Course, Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, March 22-23, 1996.

Changing Concepts in the Management of Fractures of the Distal Tibia. Grand Rounds, OHSU Dept. of Orthopedics and Rehabilitation, August, 1995.

Modularity in Total Hip Replacement. Grand Rounds, OHSU Dept. of Orthopedics and Rehabilitation, August, 1994.

Talar Dome Deformity Following Clubfoot Surgery. Grand Rounds, OHSU Dept. of Orthopedics and Rehabilitation, June 3, 1993.

Progressive Osseous Heteroplasia. Grand Rounds, OHSU Dept. of Orthopedics and Rehabilitation, March 1, 1993.

Management of Pelvic Fractures. Oregon State Trauma Advisory Board Annual Meeting, Walla Walla, Washington, Oct. 9, 1992.

Intramedullary Nailing of Unstable Tibia Fractures: Literature Review and Results of New Technique Utilizing the Universal Distractor. Grand Rounds, OHSU Dept. of Orthopedics and Rehabilitation, May 14, 1992.

Tibial Nailing with the Universal Distractor (Update). OHSU Dept. of Orthopedics and Rehabilitation Annual Scientific Meeting, May 1, 1992.

Learning with the CD-ROM. OHSU Dept. of Orthopedics and Rehabilitation Annual Scientific Meeting, May 1, 1992.

Motorcycle Injuries in Oregon. Grand Rounds, OHSU Dept. of Orthopedics and Rehabilitation, March 5, 1992.

Pelvic Osteotomy During Reconstruction of the Exstrophic Bladder: Comparison of Posterior Iliotomy with Anterior Pubic Ramotomy. 31st Dillehunt Memorial Lecture, Shriners Hospital for Crippled Children, Portland, OR, April 27, 1991.

Survivorship Analysis: Theory and Applications. Grand Rounds, OHSU Dept. of Orthopedics and Rehabilitation, January, 1990.

**Postgraduate Meetings Organized.**

Planning Committee: Extremity War Injuries XIII. Washington DC, Jan 21-23, 2018.

Co-Chair: Extremity War Injuries XII:Homeland Defense as a Translation of War Lessons Learned. Washington DC, Jan 30-Feb 1, 2017.

Co-Chair: Extremity War Injuries XI:Maintaining Force Readiness During an Era of Military Transition. Washington DC, Jan 18-20, 2016.

Planning Committee: Extremity War Injuries X:Reducing Disability within the Military. Washington DC, Feb 11-12, 2015.

Session Chair, Planning Committee: Extremity War Injuries IX:Reducing Disability within the Military. Washington DC, Feb 11-12, 2014.

Roundtable Discussion: I’m a Doctor, Not a Mechanic; The Future of Orthopaedics. American Orthopaedic Association Annual Meeting, Denver, CO, June 14, 2013.

Mini-symposium: Management of Infection After Internal Fixation. Orthopaedic Trauma Association Annual Meeting, Baltimore, MD, Oct. 16, 2010.

International Forum, Orthopedic Trauma Association Annual Meeting, Baltimore, MD, Oct 15. 2010.

International Forum, Orthopedic Trauma Association Annual Meeting, San Diego, CA, Oct. 2009.

Course Planning Committee: Orthopedic Trauma Association Specialty Day. Feb 17, 2007.

Course Co-Chair: Advanced Trauma Symposium. Minneapolis, MN, Feb 9, 2007.

Course Director: Advanced Intramedullary Nailing and Locked Plating. Gustilo Education Center, Minneapolis, June 12, 2006.

Course Chairman: Plates and Screws in Fractures and Nonunions. University of Minnesota - Mayo Clinic Residents Course, Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, March 10-11, 2006.

Course Chairman: Foot and Ankle Course. University of Minnesota - Mayo Clinic Residents Course, Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, Feb 12, 2005.

Symposium: “Care of Infected Fractures”. Given at the Orthopaedic Trauma Association Annual Meeting, Ft. Lauderdale, FL, Oct. 10, 2004.

Symposium: “Proximal Humeral Fractures”. Given at the Orthopaedic Trauma Association Annual Meeting, Ft. Lauderdale, FL, Oct. 8, 2004.

Co-Chairman, AO North America Principles of Fracture Management for Residents. Minneapolis, MN, Aug 18-21, 2004.

Chairman. AO North America Operating Room Personnel Course, Minneapolis, MN, May 21-22, 2004.

Course Chairman: Fractures about the Knee. University of Minnesota - Mayo Clinic Residents Course, Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, April 23-24, 2004.

Moderator and Organizer: Femoral Neck Fractures. Instructional Course Lecture, American Academy of Orthopaedic Surgery Annual Meeting, San Francisco, CA, Mar. 11, 2004.

Symposium: “Care of Infected Fractures”. Given at the Orthopaedic Trauma Association Annual Meeting, Salt Lake City, UT, Oct. 10, 2003.

Chairman, “Orthopedic Bootcamp”. Introductory course for post-graduate level 2 residents. University of Minnesota, June 30, 2003.

Course Chairman: External Fixation. University of Minnesota - Mayo Clinic Residents Course, Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, April 5, 2003.

Moderator and Organizer: Femoral Neck Fractures. Instructional Course Lecture, American Academy of Orthopaedic Surgery Annual Meeting, New Orleans, LA, Feb. 8, 2003.

Symposium: “Care of Infected Fractures”. Given at the Orthopaedic Trauma Association Annual Meeting, Toronto, Canada, Oct, 2002.

Chairman, “Orthopedic Bootcamp”. Introductory course for post-graduate level 2 residents. University of Minnesota, June 30, 2002.

Moderator and Organizer: Femoral Neck Fractures. Instructional Course Lecture, American Academy of Orthopaedic Surgery Annual Meeting, Dallas, TX, Feb. 14, 2002.

Symposium: “Care of Infected Fractures”. Given at the Orthopaedic Trauma Association Annual Meeting, San Diego, CA, Oct. 20, 2001.

Chairman, “Orthopedic Bootcamp”. Introductory course for post-graduate level 2 residents. University of Minnesota, June 22-23, 2001.

Moderator and Organizer: Femoral Neck Fractures. Instructional Course Lecture, American Academy of Orthopaedic Surgery Annual Meeting, San Francisco, CA, Feb, 2001.

Chairman, University of Minnesota - Mayo Clinic Residents Course, “Ankle Fractures”. Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, February 2, 2001.

Chairman, “Orthopedic Bootcamp”. Introductory course for post-graduate level 2 residents. University of Minnesota, June 23-24, 2000.

Chairman, University of Minnesota - Mayo Clinic Residents Course, “Pre-operative Planning”. Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, June 6, 2000.

Course Planning Committee, Orthopaedic Trauma Association “Trauma Update”, Kansas City, MO, April 13-14, 2000.

Co-Chairman, Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, November 18-20, 1999.

Chairman, “Orthopedic Bootcamp”. Introductory course for post-graduate level 2 residents. University of Minnesota, June 25-26, 1999.

Chairman, University of Minnesota - Mayo Clinic Residents Course, “External Fixation”. Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, April 23-24, 1999.

Co-Chairman, Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, November 19-21, 1998.

Course Chairman and lecturer, University of Minnesota - Mayo Clinic Residents Course, “Osteotomies About the Hip and Knee”. Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, October 23-24, 1998.

Course Chairman and lecturer, University of Minnesota - Mayo Clinic Residents Course, “Intramedullary Nailing”. Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, April 3-4, 1998.

Course Chairman, University of Minnesota - Mayo Clinic Residents Course, “Fractures about the Knee”. Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, February 22-23, 1998.

Co-Chairman, Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, October 3-5, 1997.

Co-Chair, Minnesota Orthopaedic Society Annual Meeting, May 1997.

Co-Chairman, Hennepin County Medical Center Annual Orthopaedic and Trauma Seminar, October 19, 1996.

Course Chairman. “Shoulder Arthroscopy - Bioskills Workshop”. Orthopaedic Learning Center, Hennepin County Medical Center. June 13, 1996.

Course Chairman and lecturer, University of Minnesota - Mayo Clinic Residents Course, “Intramedullary Nailing”. Hennepin County Medical Center Orthopedic Learning Center, Minneapolis, MN, March 22-23, 1996.