

CURRICULUM VITAE  
**Christopher Thomas Born, MD**

**Business or Mailing Address**

C/O Department of Orthopaedic Surgery  
Rhode Island Hospital  
Medical Office Center  
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2 Dudley Street  
Providence, RI 02905

**Business Telephone Number**

401-457-1560 (Clinical)  
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401-831-8992

**EDUCATION**

**Undergraduate**

University of North Carolina  
Chapel Hill, NC  
BA (Political Science), 1970

Columbia University School of General Studies  
New York City, NY  
Pre-medical non-degree post-baccalaureate undergraduate, 1971-1974

**Medical School**

Georgetown University School of Medicine  
Washington, DC  
MD degree, 1979

**POSTGRADUATE TRAINING**

**Residency**

1979-1980  
Internship, General Surgery  
Department of Surgery  
Hospital of the University of Pennsylvania  
3400 Spruce Street  
Philadelphia, PA 19104

1980-1984

Residency, Orthopaedic Surgery  
Department of Orthopaedic Surgery  
Hospital of the University of Pennsylvania  
3400 Spruce Street  
Philadelphia, PA 19104

## **POSTGRADUATE HONORS AND AWARDS**

1984 Stanley M.K. Chung Award  
Outstanding Clinical Research in Pediatric Orthopaedics  
Department of Orthopaedic Surgery  
University of Pennsylvania School of Medicine

1991 Henry W. Myerding Award, Second Prize  
"The Morel-Lavallée Lesion"  
National Fracture Association Conference, Washington, D.C.

1992 Henry W. Myerding Award, Third Prize  
"Surgical Approaches to Compartment Syndromes"  
National Fracture Association Conference, Orlando, FL

1993, 1996, 1998, 2002, 2004, 2005  
Philadelphia Magazine  
"Top Physician" in Orthopaedic Surgery and Orthopaedic Trauma in the Philadelphia/Delaware Valley Region

1999 Jessie T. Nicholson award  
Outstanding Clinical Teacher,  
Department of Orthopaedic Surgery  
University of Pennsylvania

2000 American College of Surgeons Committee on Trauma  
Millennium Commitment Award

2003 The Doctors Christopher Born, Paul Lotke and Michael Zasloff Fellowship in Orthopaedic Molecular Medicine.

A privately endowed fellowship for research into the molecular and biological aspects of bone growth and healing in the McKay Laboratory for Orthopaedic Research at the University of Pennsylvania.

2004 Special Award  
Orthopaedic Trauma Association  
"For dedication to orthopaedic disaster response and for humanitarian medical care provided to the earthquake victims of Bam, Iran in December, 2003.

2004 Under-Secretary's Award  
Federal Emergency Management Agency (FEMA) of the U.S. Department of Homeland Security

“In recognition of historic response and outstanding performance to the U.S. relief effort to the Bam, Iran earthquake, December, 2003” as part of the FEMA International Medical Surgical Response Team (IMSuRT)

2005 Teaching Award, Class of 2005, Department of Orthopaedics and Sports Medicine, Temple University, Philadelphia, PA

2005 Special Faculty Award for “...dedicated service and commitment to resident education and patient care”, Department of Orthopaedics and Sports Medicine, Temple University, Philadelphia, PA

2005 Special Appreciation presentation by C. William Schwab, MD, Director of the Trauma Center at Penn at the 15<sup>th</sup> Annual Fellowship Alumni Weekend Program, Philadelphia, PA

2005 New Jersey Monthly Magazine “Top Physician” (Orthopaedics/Trauma)

2006 Nominated for the AAOS Humanitarian Award

2007 Nominated for the AAOS Humanitarian Award

2008 AAOS/OTA Orthopaedic Distinguished Visiting Scholar Program: by invitation, 2 1/2 weeks as fully credentialed orthopaedic traumatologist at the U.S. Military Hospital in Landstuhl, Germany caring for American and Coalition Force servicemen wounded in either OIF or OEF.

2009 Recipient of AAOS/OTA Challenge coin and Landstuhl Regional Medical Center Challenge coin honoring service to military affairs and to wounded US servicemen at the Landstuhl Regional Medical Center, Landstuhl, Germany in 2008.

2009 Physician/Patient Advocate, AAOS Research Capitol Hill Days-meetings with seven members of Congress (RI and NJ) and/or staff to promote funding for orthopaedic research through the NIH and NIAMS on behalf of the American Academy of Orthopaedic Surgeons..

2009 Spenciner D, Jarrell J, Born CT, Morgan, J. Winner; Rhode Island Business Plan Competition (Entrepreneur Track) for the development of a proprietary technology to thwart infection relating to medical device use.

2009-2010 Best Doctors in America

## **MILITARY SERVICE**

NA

## **PROFESSIONAL LICENSES AND BOARD CERTIFICATION**

Medical License Pennsylvania # MD024933E (1979)

Medical License New Jersey #MA44341 (1984)

Medical License Rhode Island #MD11855 (2005)

Diplomate, National Board of Medical Examiners (1980)

Diplomate, American Board of Orthopaedic Surgery (1988)

1<sup>st</sup> Recertification American Board of Orthopaedic Surgery (1998)

2<sup>nd</sup> Recertification American Board of Orthopaedic Surgery (2008-ten year certificate valid until 2018)

Certifications for IS-00100, IS-00200, IS-00700 and IS-00800.b levels by FEMA/Emergency Management Institute (2008)

## **ACADEMIC APPOINTMENTS**

1980 - 1984 Assistant Instructor in Orthopaedic Surgery, Department of Orthopaedic Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA

1984 -1990 Assistant Professor of Clinical Surgery, Department of Surgery, Division of Orthopaedic Surgery, University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School Cooper Hospital/University Medical Center (Cooper University Hospital), Camden, NJ

1990 - 1996 Associate Professor of Clinical Surgery, Department of Surgery, Division of Orthopaedic Surgery, University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School Cooper Hospital/University Medical Center (Cooper University Hospital), Camden, NJ

1986 - 1993 Clinical Assistant Professor of Orthopaedic Surgery, Department of Orthopaedic Surgery University of Pennsylvania School of Medicine, Philadelphia, PA

1993 – 2003 Adjunct Assistant Professor of Orthopaedic Surgery, Department of Orthopaedic Surgery University of Pennsylvania School of Medicine, Philadelphia, PA.

1994 - 1996 Adjunct Clinical Assistant Professor of Orthopaedic Surgery, Department of Orthopaedic Surgery, Jefferson Medical College, Philadelphia, PA

1998 - 2005 University Associate, Division of Orthopaedics, Department of Surgery, Children's Hospital of Philadelphia and The Children's Seashore House, Philadelphia, PA

2003 Associate Professor of Orthopaedic Surgery, Department of Orthopaedic Surgery University of Pennsylvania, Philadelphia, PA

2003 - 2005 Professor of Orthopaedic Surgery, Department of Orthopaedic Surgery, Temple University School of Medicine, Philadelphia, PA.

2005 – Present Professor of Orthopaedic Surgery, Department of Orthopaedic Surgery, The Warren Alpert Medical School at Brown University

## **HOSPITAL/UNIVERSITY APPOINTMENTS**

**Cooper Hospital/University Medical Center (Cooper University Hospital)**  
Camden, NJ

1984-1996 Attending Surgeon in the Department of Surgery, Division of Orthopaedic Surgery

1988-1996 Assistant Division Head, Division of Orthopaedic Surgery

1986-1996 Director of the Orthopaedic Clinic

1987-1996 Associate Director of Orthopaedic Trauma Fellowship

**Hospital of the University of Pennsylvania (and its affiliates)**

Philadelphia, PA

1997-2003 Attending Surgeon in the Department of Orthopaedic Surgery

1997-2003 Co-Director of Division of Orthopaedic Trauma

1997-2003 Co-Director of Orthopaedic Trauma Fellowship

**Temple University Hospital (and its affiliates)**

Philadelphia, PA

2003-2005 Attending Surgeon in the Department of Orthopaedic Surgery

2003-2005 Co-Director of Division of Orthopaedic Trauma

2003-2005 Co-Director of Orthopaedic Trauma Fellowship

**Lifespan Health System / Rhode Island Hospital (and its affiliates)****Brown University School of Medicine/VA Medical Center**

Providence, RI

2005-Present Attending Surgeon in the Department of Orthopaedic Surgery

2005-Present Chief, Orthopaedic Trauma Service

2005-Present Director of Orthopaedic Trauma Fellowship

2006-Present Internal Advisory Board, Center for Restorative and Regenerative Medicine

2006-Present Director of Orthopaedic Trauma Rotation for the Department of Emergency Medicine

2006-2008 Member, Committee for Selection of a Shoulder/Elbow Surgeon

2006-2008 Member, Committee for Selection of an Orthopaedic Trauma Surgeon

2008-Present Providence VA Medical Center, Contract Provider in Surgical Service

2009-Present Clinical Advisory Board, Center for Restorative and Regenerative Medicine

2009-Present Committee on Lifespan Policies Regarding Interaction with Business Representatives

**OTHER APPOINTMENTS****General:**

1995-Present Reviewer, Journal of Trauma

1997-2003 Orthopaedic Liaison Trauma Center at Penn to the Pennsylvania Trauma Systems Foundation

1997-2003 Reviewer, University of Pennsylvania Orthopaedic Journal

1997-2003 Team Physician, South Jersey Barons Professional Soccer Team, D3 League

1997-2003 Team Physician South Jersey Banshees, WI League

2001-2003 Team Physician, Philadelphia Charge Professional Women's Soccer Team, WUSA

2003-2007 National Board of Medical Examiners Question Writing Task Force for the American Board of Orthopaedic Surgery (Trauma)

2003-Present U.S. Government Department of Homeland Security, Federal Emergency Management Agency Member, International Medical Surgical Response Team (IMSuRT) (Now under DHHS)

2005 National Board of Medical Examiners Recertification Standard Setting Committee for the American Board of Orthopaedic Surgery

2005-Present Reviewer, Journal of Orthopaedic Trauma

2006-present Liaison, Orthopaedic Trauma Association to the American College of Surgeons

2008-Present Editorial Board, Journal of Trauma

2008-Present Reviewer, Journal of the American Academy of Orthopaedic Surgeons

2008-Present Reviewer Clinical Orthopaedics and Related Research

2009-present Committee Member DHS (Office of Health Affairs) / ACS / AAOS Work Group to Improve US Disaster Medical Response

2009-Present Reviewer Scandinavian Journal of Trauma Resuscitation and Emergency Medicine

**Appointed Program Directorships:**

- 1) April 1985. Course Co-Director, Management of Pelvic Fractures, Howmedica, Philadelphia, PA.
- 2) June 1985. Course Co-Director, External Fixation Symposium, Howmedica, King of Prussia, PA.
- 3) October 1986. Program Director, Spinal Locking Hooks and Intramedullary Nailing of Fractures for Delaware Valley Orthopaedic Surgeons, Synthes (with Professor Dr. Peter Matter, President of AO Switzerland) Philadelphia, PA.
- 4) May 1987. Co-Director, External Fixation/Hands-on Pelvic Fracture Meeting and Workshop for the Greater Philadelphia Orthopaedic Surgeons and Residents, Hospital of the University of Pennsylvania, Philadelphia, PA.
- 5) October 1990. Course Co-Director, Advanced Concepts in Interlocking Nails, Robert Wood Johnson Medical School, Camden, NJ.
- 6) April 1995. Course Director, AO Resident Fracture Workshop, Synthes, Cooper Hospital/UMC, Camden, NJ.
- 7) January 1996. Course Director, Circular Wire Fixator Frame Workshop, Richards, Philadelphia, PA.
- 8) September 1998. Course Co-Director, First Annual Orthopaedic Trauma Motor Skills Course, Synthes, Paoli, PA.
- 9) October 1998. Course Director, Long Gamma Nails, Howmedica Osteonics, Philadelphia, PA.
- 10) March 1999. Workshop Director for Swedish Trauma Surgeons. "Pelvic Fractures". Univ. of PA. Health Systems, Philadelphia, PA.
- 11) May 1999. Workshop Director, Antegrade and Retrograde Humeral Nailing, Columbia University College of Physicians and Surgeons, New York, NY.
- 12) October 1999. Co-Chair, Symposium "E&M and Surgical Coding: How to get the Most from Trauma". Orthopaedic Trauma Association 14<sup>th</sup> Annual Meeting, Charlotte, NC.
- 13) March 2000. Organizing Committee, Orthopaedic Trauma Association 2000 Specialty Day, "Fracture Management and Orthopaedic Emergencies", at the 67<sup>th</sup> Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida.
- 14) October 2000. Program Organizer/Moderator, Panel Symposium "Mass Casualties: Are We Prepared?" With Lt. Gen. Paul K. Carlton, Surgeon General of the US Air Force and Susan M. Briggs, MD, Medical Director of the National Disaster Medical System at the 16<sup>th</sup> Annual Meeting of the Orthopaedic Trauma Association, San Antonio, Texas.
- 15) November 2000. Program Co-Director, Swedish Trauma Training Program, Center for Disaster Medicine, Linköping University in conjunction with the Swedish Ministry of Health and Welfare, Linköping, Sweden

- 16) December 2000. Course Director, Philadelphia Gamma Workshop, Howmedica Osteonics, Philadelphia, PA.
- 17) May 2001. Course Director, 1<sup>st</sup> Annual Philadelphia Orthopaedic Trauma Symposium, Zimmer, Philadelphia, PA.
- 18) October 2001. Course Director, Management of Complex Proximal Femur Fractures with Intramedullary Nails Laboratory Workshop, Orthopaedic Trauma Association Resident's Basic Fracture Course. San Diego, CA.
- 19) December 2001. Program Director Philadelphia Resident Trauma Bioskills Workshop, Synthes, USA, Paoli, PA.
- 20) January 2001. Program Co-Director, Swedish Trauma Training Program, Center for Disaster Medicine, Linköping University in conjunction with the Swedish Ministry of Health and Welfare, Linköping, Sweden
- 21) March 2002. Program Director, Delaware Valley Orthopaedic Trauma Coalition. Facilitator for the inaugural/organizational meeting of 25 Delaware Valley orthopaedic surgeons from all regional Level I and Level II trauma centers and several community hospitals with an interest in providing orthopaedic response / expertise for declared disasters within the region.
- 22) May 2002. Course Director, 2002 Trauma Update Course, University of Pennsylvania, Philadelphia, PA.
- 23) September 2002. Course Co-Director, 7<sup>th</sup> Annual Resident's Symposium (Trauma), Howmedica Osteonics, Phoenix, AZ.
- 24) October 2002. Director, Proximal Femoral Nailing Lab, Resident's Basic Fracture Course, Orthopaedic Trauma Association, Toronto, Canada.
- 25) November 2002. Program Co-Director Swedish Trauma Training Program, Center for Disaster Medicine, Linköping University in conjunction with the Swedish Ministry of Health and Welfare, Linköping, Sweden
- 26) January 2003. Course Chairman, Concepts in Locked Plating, Synthes, Philadelphia, Pa.
- 27) October 2003. Director, Laboratory Program, "Management of Complex Proximal Femur Fractures with Intramedullary Nails", OTA Resident's Basic Fracture Course, Salt Lake City, Utah
- 28) October 2003. Program Director and Moderator "Multidisciplinary Management of the Complex Lower Extremity Injury", General Session Symposium Sponsored by the American College of Surgeons Committee on Trauma at the 89<sup>th</sup> Annual Clinical Congress of the American College of Surgeons, Chicago, IL.
- 29) May 2004. Program Organizer, Special OTA Exhibit on "Mass Casualties and Disaster Management: Military Models" incorporating elements of the US Army, Air Force and Navy at the AAOS Annual Meeting, San Francisco, CA.
- 30) May 2004. Course Co-Director, 4<sup>th</sup> Annual AAOS/OTA Trauma Course: Current Management Concepts and Practical Solutions, American Academy of Orthopaedic Surgeons and the Orthopaedic Trauma Association, Phoenix, AZ.

- 31) September 2004. Program Co-Director, Mass Casualty Incidents: surgeon's roll in the assessment and management of injuries resulting from conventional and unconventional threats. At the American Association for the Surgery of Trauma, 63<sup>rd</sup> annual meeting, Maui, HI.
- 32) October 2004. Program Co-Director, Advanced Disaster Medical Response Course and Provider Field Training Exercise. At the 20<sup>th</sup> annual meeting of the Orthopaedic Trauma Association, Ft Lauderdale, FL.
- 33) October 2004. Director, Laboratory Program, "Management of Complex Proximal Femur Fractures with Intramedullary Nails", OTA Resident's Basic Fracture Course, FT. Lauderdale, FL.
- 34) November 2004. Program Co-Chair, Delaware Valley Orthopaedic Resident Workshop, Synthes, Philadelphia, PA
- 35) January 2005. Course Co-Chair, Disaster Symposium, 18<sup>th</sup> Scientific Assembly EAST, Ft Lauderdale, FL.
- 36) March 2005. Course Director, State of the Art in Orthopaedics 2005-Trauma, Stryker, Snowmass, CO.
- 37) April 2005. Course Co-Chair, 5<sup>th</sup> Annual AAOS/OTA Trauma Course: Current Management Concepts, Surgical Techniques and Practical Solutions for Orthopaedic Trauma Problems, American Academy of Orthopaedic Surgeons and the Orthopaedic Trauma Association, Miami, FL
- 38) May 2005. Course Director, "External Fixation for the Military", in conjunction with the University of Pennsylvania Advanced Trauma Operative Management Course (ATOM), Philadelphia, PA.
- 39) September 2005. Course Director, Pennsylvania Orthopaedic Trauma Symposium, Philadelphia, PA
- 40) January 2006. Course Chairman, Basic Principles and Techniques of Operative Fracture Management, AO North America Educational Foundation, Philadelphia, PA.
- 41) April 2006. Course Chairman, 6<sup>th</sup> Annual AAOS/OTA Trauma Course: Current management concepts, surgical techniques and practical solutions for orthopaedic trauma problems, St. Augustine, FL.
- 42) October 2006 Course Chairman, Disaster and Mass Casualty Management Course held in conjunction with the Orthopaedic Trauma Association 22<sup>nd</sup> Annual Meeting, Phoenix, AZ
- 43) November 2006 Course Chairman, 1st International Trauma Symposium, Foundation for Orthopaedic Trauma, Orlando, FL
- 44) April 2007 Course Chairman, 7<sup>th</sup> Annual AAOS/OTA Orthopaedic Trauma Course: Current Management Strategies, St. Augustine, FL.
- 45) September 2007 Course Chairman 4<sup>th</sup> Annual Pennsylvania Orthopaedic Trauma Symposium, Philadelphia, PA
- 46) October 2007 Course Chairman Disaster Management and Emergency Preparedness Course, American College of Surgeons/Committee on Trauma at the 23<sup>rd</sup> Annual meeting of the OTA, Boston, MA
- 47) October 2008 Course Chairman Disaster Management and Emergency Preparedness Course, American College of Surgeons/Committee on Trauma at the 24<sup>th</sup> Annual meeting of the OTA, Denver, CO
- 48) November 2008 Course Developer Taylor Spatial Frame (Non-CME), Providence, RI
- 49) January 2009 Moderator Disaster Preparedness: National efforts, Extremity War Injuries IV: Collaborative efforts in research, host nation care and disaster preparedness AAOS/OTA/SOMOS (Non-CME), Washington, DC
- 50) February 2009 Moderator Essentials of Disaster Management: The role of the orthopaedic surgeon, Instructional Course Lecture, AAOS Annual Meeting, Las Vegas, NV



## **HOSPITAL COMMITTEES**

### **Cooper Hospital/University Medical Center (Cooper University Hospital)**

1985-1990 Surgical Tissue Review Committee  
1990-1991 Surgical Clinic Planning Committee  
1991-1992 Chairman, Nominating Committee  
1991-1993 Faculty Development Committee  
1991-1993 Orthopaedic Liaison, Department of Physical Medicine and Rehabilitation  
1991-1997 Medical Records Committee  
1992-1993 Operating Room Chart Focus Group Committee  
1993-1994 Chairman, Search Committee for the Chief of Anesthesia  
1996-1997 Product Review Steering Committee  
1997 Operating Room Committee

### **Hospital of the University of Pennsylvania**

1998-2003 Chairman, Practice and Finance Committee, Department of Orthopaedic Surgery  
1998-2003 Sub Acute Task Force Committee  
1998-2003 MSI Motor Skills Lab Committee  
1998-2003 Research Committee, Department of Orthopaedic Surgery

### **Temple University Hospital**

2003-Present Trauma QI Committee  
2004-Present Planning Committee, Clinical Skills and Advanced Technology Laboratory

### **Rhode Island Hospital**

2005-Present Neuroscience/Orthopaedic Technology Planning Work Group  
2005-Present Rhode Island Hospital Trauma Committee  
2005-Present Rhode Island Hospital Disaster Preparedness Committee  
2006-2007 Committee for Review of Purchasing of Orthopaedic Trauma OR Equipment

## **UNIVERSITY COMMITTEES**

### **University Of Pennsylvania**

1988 Centennial Committee, Department of Orthopaedic Surgery  
1999 Committee to Review the Department of Emergency Medicine FY2000

### **Brown University**

2007 Search Committee for Shoulder and Elbow Surgeon, Department of Orthopaedic Surgery  
2007 Search Committee for Orthopaedic Trauma Surgeon, Department of Orthopaedic Surgery  
2007-2009 Search Committee for Chief, Trauma and Critical Care, Department of Surgery  
2007-Present Center for Restorative and Regenerative Medicine (Member of External Advisory Board and Scientific Advisory Board)

## **MEMBERSHIP IN SOCIETIES**

(Year of Initiation)

### **National Societies:**

#### **(1985) American Medical Association**

2007 Nominee, National Disaster Life Support Education Consortium (NDLSEC) Executive Committee (To provide review and critique of the AMA's National Disaster and Life Support Courses)

#### **(1989) American College of Surgeons**

1991-2004 New Jersey Chapter, Committee on Trauma,  
1996-2002 Committee on Trauma, Active Member  
(Orthopaedic Subspecialty Subcommittee and Educational Subcommittee)  
2001-2005 Chairman, Committee on Trauma, Orthopaedic Subspecialty Committee  
2003 Reviewer, PHTLS: Basic and Advanced Prehospital Trauma Life Support Manual  
2003 Reviewer, Operative Skills Course for Severe Trauma Guidelines for the Education Subcommittee  
2003-2005 Committee on Trauma, Senior Member, Ad Hoc Committee on Disasters and Mass Casualties  
2004-Present Committee on Trauma liaison to the national steering committee for the AMA National Disaster Life Support (NDLS) three course program (BDLS/ADLS/CDLS)  
2005-Present Consultant, Committee on Trauma; Member, Ad Hoc Committee on Disasters and Mass Casualties  
2007-Present Specialty Societies Governor for the American Academy of Orthopaedic Surgeons

#### **(1989) Eastern Association for the Surgery of Trauma (EAST)**

1989-1991 Program Committee  
1990-1992 Membership Committee  
1992-1995 Bylaws Committee (Chairman, 1993-1995)  
1992-1995 Board of Directors  
1994-1997 Publications Committee  
1995 Nominating Committee  
1996-1999 Committee on Careers in Trauma  
1999-2003 Practice Management Guidelines Committee  
2003-2008 Disaster and Medical Special Operation Committee  
2005-2008 Senior's Committee.

#### **(1990) American Academy of Orthopaedic Surgeons (AAOS)**

2003-2004 Co-Chairman 4<sup>th</sup> Annual AAOS/OTA Trauma Course  
2004-2005 Co-Chairman 5<sup>th</sup> Annual AAOS/OTA Trauma Course  
2005-2006 Chairman 6<sup>th</sup> Annual AAOS/OTA Trauma Course  
2005-Present CME Courses Committee (Trauma)  
2006-2007 Chairman 7<sup>th</sup> Annual AAOS/OTA Trauma Course  
2007-Present Extremity War Injuries and Disaster Preparedness Project Team Work Group  
Chairman, Disaster Preparedness/Partnership Opportunities Subcommittee  
2009 Patient Advocate, AAOS Research Capitol Hill Days

2009 Representative to Department of Homeland Security Office of Health Affairs work group on Improving U.S. Disaster Medical Response (Subcommittee on Disaster Education)

**(1990) Orthopaedic Trauma Association (OTA)**

1994-2000 Chairman, Committee on Fellowship and Career Choices  
1995 Ad Hoc Committee on the Recruitment, Retention and Maturation of the Trauma Surgeon  
1999-Present Chairman, Committee for Orthopaedic Preparedness for Mass Casualties  
1999-2003 Co-Chairman, Committee for the Development of an Electronic Curriculum  
2000-Present Liaison to the National Disaster Medical System (NDMS) of the Federal Government  
2000-2007 Health Policy and Planning Committee  
2001-2002 Nominating Committee  
2006-2007 OTA Liaison to the Emergency Workforce Summit Meeting of Surgical Specialty Societies held in Chicago, IL at the American College of Surgeons  
2007-Present OTA Patient Education/AAOS YOC Task Force Committee member  
2009-Present At-Large Board Member

**(1990) American Association for the Surgery of Trauma (AAST)**

2005-2007 Member, *ad hoc* Committee to Develop the Reorganized Specialty of Trauma, Surgical Critical Care, and Emergency Surgery  
2005-Present Member Acute Care Surgery Committee

**(1994) Eastern Orthopaedic Association**

**(1995) Arbeitsgemeinschaft für Osteosynthesefragen/Association for the Study of Internal Fixation**

**(2002) EAST Foundation (Founding Member)**

2002-2005 Board of Directors

**(2005) Foundation for Orthopaedic Trauma (FOT) ( Founding Member)**

2005-Present Board of Directors,  
2005-Present Chairman, Bylaws Committee  
2006 Chairman, 1<sup>st</sup> International Trauma Symposium  
2008-Present Member, Ad-hoc Humanitarian Committee

**(2005-Present) John Lachman Society (Founding Member)**

**Local Societies:**

**(1985-2005) Medical Society of New Jersey**  
**(1985-2005) Camden County Medical Society**  
**(1989-2005) New Jersey Orthopaedic Society**  
**(1991-present) College of Physicians of Philadelphia**  
**(1992-2005) Philadelphia County Medical Society**  
**(1992-2005) Pennsylvania Medical Society**  
**(1993-2005) Pennsylvania Orthopaedic Society**  
**(1994-2005) Philadelphia Orthopaedic Society**  
**(2006-present) Rhode Island Orthopaedic Society**

## **ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS**

- 1) Born CT, Moller ML: A Simple Procedure for the Long Term Intravenous Infusion in the Rat. Laboratory Animal Science 24: 355-358, 1974. Year Book of Cancer, PP 625-626, Year Book Medical Publishers, Chicago, Ill, 1975.
- 2) Ross SE, Schwab CW, David ET, DeLong WG, Born CT: Clearing the Cervical Spine: Initial Radiologic Evaluation. J. Trauma 27: (9) 1055-1059, 1987.
- 3) Ross SE, O'Malley KF, DeLong WG, Born CT, Schwab CW: Clinical Predictors of Cervical Spine (CSI) in Blunt High Energy Transfer Injuries (BHETI). Annals of Emergency Medicine 16: (4) 498, 1987.
- 4) O'Malley KF, Born CT, DeLong WG, Halsey D, Shaikh KA, Schwab CW: Patterns of Injury in Highway Trauma: Automotive, Motorcycle, Pedestrian, Moped and Bicycle. 29th Proceedings of the American Association for Automotive Medicine pp 323-334, 1985.
- 5) O'Malley KF, Born CT, DeLong WG, Shaikh KA, Schwab CW: A Triage Tool for Trauma Center Transfer. Topics in Emergency Medicine 9: (1) 71-78, 1987.
- 6) Smejkal R, Izant T, Born CT, DeLong WG, Ross SE: Pelvic Crush Injuries with Occlusion of the Iliac Artery. J. Trauma 28: (10) 1479-1482, 1988.
- 7) Born CT, DeLong WG, Shaikh KA, Moskwa A, Schwab CW: Early Use of the Brooker-Wills Interlocking Intramedullary Nail (BWIIN) for Femoral Shaft Fractures in the Acute Trauma Patient. J. Trauma 28: (11) 1515-1522, 1988. Reviewed in Orthopaedic Capsule and Comment II: (4) 1989.
- 8) DeLong WG, Born CT, Marcelli E, Shaikh KA, Iannaccone WM, Schwab CW: Ender Nail Fixation in Long Bone Fractures: Experience in a Level 1 Trauma Center. J. Trauma: 29 (5) 571-576, 1989.
- 9) Born CT, Petrik M, Freed M, DeLong WG: Syncope and Cerebrovascular Accident Complicating Klippel-Feil Syndrome: A Case Report. JBJS, 70-A: (9) 1412-1415, Oct 1988.
- 10) Born CT, Ross SE, Iannaccone WM, Schwab CW, DeLong WG: Delayed Identification of Skeletal Injury in Multisystem Trauma: The "Missed" Fracture. J. Trauma: 29 (12) 1643-1646, Dec 1989.
- 11) Iannaccone WM, DeLong WG, Born CT, Bednar JM, Ross SE: Dynamic Computerized Tomography of the Occiput-Atlas-Axis Complex in Trauma Patients with Odontoid Lateral Mass Asymmetry. J. Trauma: 30 (12) 1501-1505 Dec 1990.
- 12) DeLong WG, Born CT, Iannaccone WM, Bednar JM, Guzman P: Early Experience with Russell Taylor Interlocking Femoral Nail System. UPOJ: (8) 25-29, 1992.

- 13) Mitchell JR, DeLong WD, Iannacone WM, Born CT: A Review of Delayed, Locked Intramedullary Nailing of Severe Tibial Shaft Fractures Following Initial External Fixation. UPOJ: 8 11-15, 1992.
- 14) Ross SE, O'Malley KF, DeLong WG, Born CT, Schwab CW: Clinical Predictors of Unstable Cervical Spine Injury in Multiple Trauma Patients. Injury: 23 (5) 317-319, 1992.
- 15) Kottmeier SA, Wilson SC, Born CT, Hanks GA, DeLong WG, Iannacone WM: The Morel-LaVallée Lesion. Orthop. Tran.: 16 (1) 49, 1992.
- 16) DeLong WG, Born CT, Mitchell J, Iannacone WM: Delayed Reamed Intramedullary Rodding in Open Fractures of the Tibia after Initial Treatment with External Fixation. UPOJ, 1992.
- 17) Kottmeier S, Born CT, Saul H: Laparoscopic Retrieval of a Migrating Intra-Pelvic Pin: A Case Report and Review of the Literature. J. Trauma: 35 (6) 952-955, Dec 1993.
- 18) Born CT, Mure AJ, Iannacone WM, DeLong WG: Three Dimensional Computerized Tomographic Demonstration of Bilateral, Atlanto-Axial Rotatory Dislocation in an Adult. J. Orthop Trauma 8: (1) 67-72, Feb 1994.
- 19) Bennett FS, Born CT, Alexander J, Crincoli M: False Aneurysm of the Medial Inferior Genicular Artery after Intramedullary Nailing of the Tibia: J. Orthop. Trauma: 8 (1) 73-75, Feb 1994.
- 20) Iannacone WM, Taffet R, DeLong WG, Born CT, Dalsey RM, Deutsch LS: Early Exchange Intramedullary Nailing of Distal Femoral Fractures with Vascular Injury Initially Stabilized with External Fixation. J. Trauma 37: (446-451, Sep 1994.
- 21) Iannacone WM, Bennett FS, DeLong WG, Born CT, Dalsey RM: Initial Experience with the Treatment of Supracondylar Femoral Fractures Using the Supracondylar Intramedullary Nail: A Preliminary Report. J. Orthop Trauma 8: (4) 322-327, Aug 1994.
- 22) Wright DG, Covey DC, Born CT, Torg J, Sadasvian R: Open Dislocations of the Knee. J. Orthop. Trauma 9: (2) 135-140, Apr. 1995.
- 23) Catalano JB, Iannacone WM, Marczyk S, Dalsey RM, Deutsch LS, Born CT, DeLong WG: Open Fractures of the Patella - Long Term Functional Outcome. J. Trauma. Vol. 39: (3) 439-444 Sep 1995. Reviewed in Bone & Joint Diseases: Index and Reviews 5: (1) 1996.
- 24) Born CT, Ross SE, Aron B, DeLong WG, Iannacone WM: Patterns of Injury and Disability Caused by Forklift Trucks. J. Trauma 40: (4) 636-639, Apr 1996.
- 25) Kottmeier SA, Wilson SC, Born CT, Hanks GA, Iannacone WM, DeLong WG: Surgical Management of Soft Tissue Lesions Associated with Pelvic Ring Injury. Clinical Orthop. and Related Research: (329) 46-53, Aug 1996.
- 26) Ramsamooj R, Llull R, Tatem L, Black K, Lotano V, Dalsey R, Born C, DeLong W, Hewitt C: Graft-Versus-host Disease in Extremity Transplantation: Digital Image Analysis of Bone Marrow and TGF-B Expression In Situ Using A Novel 3-D Microscope. Transplantation Proceedings 28: (4) 2029-31, Apr 1996.

- 27) Blazar PE, Dormans JP, Born CT: Train Injuries in Children. J Orthop Trauma 11 (2): 126-129, 1997.
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- 30) DeLong WG, Wood J, Born CT, Dalsey RM, Dalton G, Iannacone WM: Reamed vs. Unreamed Tibial Nails: Are There Differences When Applied to Open and Closed Fractures. Poster exhibit, Orthopaedic Trauma Association Annual Meeting, New Orleans, LA, 1993.
- 31) Iannacone WM, Bennett FS, DeLong WG, Born CT, Dalsey RM: Treatment of Supracondylar Femoral Fractures Using the Supracondylar Intramedullary Nail. Poster exhibit, Orthopaedic Trauma Association Annual Meeting, New Orleans, LA, 1993.
- 32) Iannacone WM, DeLong WG, Born CT, Dalsey RM, Taffet R: Early Exchange Intramedullary Nailing of the Distal Femoral Fractures Associated with Vascular Injury, Initially Stabilized with External Fixation. Presented Western Trauma Association Meeting, Crested Butte, CO, March 1994.
- 33) Catalano JB, Dalsey RM, Born CT, Iannacone WM, DeLong WG, Deutsch LS: A Single Incision Approach to the Floating Knee. Presented Eastern Orthopaedic Association 25th Annual Mtg., Southampton, Bermuda, October 1994.
- 34) Nelson CL, Gupta R, Taffet R, Dalsey RM, DeLong WG, Born CT, Iannacone WM, Deutsch LS, Adler L, Catalano, JB: Functional Outcome Following Distal Humerus Fractures in Adults. Presented at the Annual Meeting, American Academy of Orthopaedic Surgeons, Orlando, FL, February 1995.
- 35) Catalano JB, Dalsey RM, DeLong WG, Born CT, Deutsch LS, Iannacone WM: A Single Incision Approach to the Floating Knee. Poster exhibit at the Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, February 1995.
- 36) Dalton GP, Dalsey RM, DeLong WG, Born CT, Iannacone WM: Operative Stabilization of Humeral Shaft Fractures in High Energy Trauma: Plate Fixation versus Enders Intramedullary Stabilization. Poster exhibit at the 62nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, February 1995.
- 37) Gupta R, Taffet R, Adler L, Nelson CL, Dalton GP, Dalsey RM, DeLong WG, Born CT, Iannacone WM, Deutsch LS: Operative Stabilization of Humeral Shaft Fractures Using Enders Rods and Statically Locked Intramedullary Nails. Poster exhibit at the Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, February 1995.
- 38) Catalano JB, Iannacone WM, Marczyk S, DeLong WG, Born, CT, Dalsey, RM, Deutsch, LS: "Open Fractures of the Patella." Presented Western Trauma Association 25th Annual Scientific Meeting Big Sky Montana, February 1995.
- 39) Salartash K, Foley S, Born CT, Hewit C, DeLong WG: "The Cellular Effects of High Pressure Irrigation on Skeletal Muscle." Presented at the Annual Meeting of the Society of University Surgeons Denver, CO, February 1995.
- 40) Bernstein J, Monaghan BA, Born CT, DeLong WG: "A Classification of Fracture Classification System." Poster exhibit, at the 62nd Annual Meeting of the AAOS, Orlando, FL, 1995.



- 41) Blazer P, Dorman JP, Born CT: "Pediatric Train Injuries". Presented at the University of Pennsylvania Research Day Symposium, Philadelphia, PA, May 1995.
- 42) Born CT: "Total Hip Arthroplasty following Operative Treatment of Fractures of the Acetabulum or Fracture Dislocations of the Hip". Presented Eastern Orthopaedic Association, Rome, Italy, October 1995.
- 43) Hewitt CW, Englesbe MJ, DeMorat GJ, Tatem LD, Levin S, Lotano V, Dalsey RM, Born, CT, DeLong, WG: Graft vs. Host Disease in Extremity Transplantation: "Digital Image Analysis of Bone Marrow and TGF- $\beta$  Expression In Situ Using a Novel 3-D Microscope": Presented Cybercongress: Transplantation in the Next Millennium, Wash., D.C., Nov., 1995.
- 44) Salartash K, Lee L, Foley S, Born C, Hewitt C, DeLong WG: "The Cellular and Immunologic Effects of High Pressure Irrigation on Skeletal Muscle". Presented Jefferson Orthopaedic Society Meeting, Nov., 1995, Phila, PA.
- 45) Levin, Lotano, Matthews, Born, DeLong, Dalsey, Black, Hewitt: Digital Image Analysis and Histomorphometry of Skin Allograft Rejection During Site-Specific Immune Suppression with Topical Cyclosporine. Inflammation and Multiple Organ Failure: Mechanisms and Therapy in Trauma and Burns Meeting. Poster Exhibit, Jan. 1996, Snowbird, UT.
- 46) GJ, Englesbe MJ, Tatem LD, Hirpara SS, Born CT, DeLong WG, Dalsey RM, Hewitt CW: Tolerant Vascularized Bone Marrow/Composite Tissue Allograft Chimeras and IL-2 Receptor Expression in Marrow Cells and Osteocytes. Poster Exhibit Orthopaedic Research Society Meeting, Feb. 1996, Atlanta, GA.
- 47) Hewitt CW, Englesbe MJ, DeMorat, GJ Tatem LD, Levin, Lotano, Dalsey RM, Born CT, DeLong WG: In Situ IL-2 Receptor Expression in the Marrow of Composite Tissue Allograft (CTA) Chimeras Analyzed by Digital Image Processing and a Novel High Definition 3-D Microscope. Poster Exhibit, at 44th American Burn Assoc. Meeting, Mar. 1996, Nashville, TN.
- 48) Hewitt CW, Englesbe MJ, DeMorat, Tatem LD, Levin, Lotano, Dalsey RM, Born CT, DeLong WG: IL-2 Receptor Expression in Marrow Cells and Osteocytes of Tolerant composite Tissue Allograft Chimeras (CTA) with a High Definition 3-D Microscope. Presented at the American Burn Assoc. Meeting, Mar., 1996, Nashville, TN.
- 49) Iannacone WM, Pan WT, Born CT: A Simple Technique for Percutaneous Removal of Broken Interlocking Screws. Poster Exhibit Orthopaedic Trauma Association Annual Meeting, Sept. 1996, Boston, MA.
- 50) Iannacone WM, Naranja J, DeLong WG, Born CT, Dalsey RM, Deutsch LS, Catalano JB: A Changing Perspective of Odontoid Fractures: Implications for Evaluation and Management. Presented at the Orthopaedic Trauma Association Annual Meeting, Sept., 1996, Boston, MA. and Annual Meeting of the Pennsylvania Orthopaedic Society, Nov., 1996 and Western Trauma Association Annual Meeting Jan., 1997.
- 51) Hewitt CW, Tatem L, Salartash K, Englesbe MJ, Demorat GJ, Matthews M, Dalsey RM, Born CT, DeLong WG: Cellular Immune Alterations in the Joints of Composite Tissue Allograft Recipients Associated with Mixed Chimerism, GVHD and Tolerance as Analyzed by a Novel 3D Microscope. Presented at the American Association for the Surgery of Hands Annual Meeting, January 8-11, 1997.

- 52) Wei S, Born CT, Abene AJ, Ong A, Hayda R, DeLong WG: 'Diaphyseal Forearm Fractures Treated With and Without Bone Graft.' Poster Exhibit 29<sup>th</sup> Annual Meeting of the Eastern Orthopaedic Association, Dorado, Puerto Rico, October 14-18, 1998.
- 53) Wei S, Born CT, DeLong WG: "The Aggressive Treatment of 119 Open Fracture Wounds". Presented American Orthopaedic Association 32<sup>nd</sup> Annual Residents' Conference, Chapel Hill, NC, March 12-14, 1999.
- 54) Wei S, Born CT, DeLong WG: "Diaphyseal Forearm Fractures Treated With and Without Bone Graft" Presented American Orthopaedic Association 32<sup>nd</sup> Annual Residents' Conference, Chapel Hill, NC, March 12-14, 1999.
- 55) Born CT, King P, DeLong WG, Khourey I, Donohue J: "Arthroscopic Removal of Retrograde Femoral Nails" Presented Annual Meeting of the Eastern Orthopaedic Association, Orlando, FL., October, 2000.
- 56) Scherbel U, Khurana JS, Born CT, DeLong WG: "Enhanced Bone Formation after Traumatic Brain Injury". Presented Eastern Orthopaedic Association, 31<sup>st</sup> Annual Meeting, Lake Buena Vista, FL. October 2000
- 57) Scherbel U, DeLong WG, Born CB, Khurana JS, Riess P: 'New Insights in Bone Formation After Traumatic Brain Injury' Presented at the AAOS 68<sup>th</sup> Annual Meeting, San Francisco, CA. March, 2001.
- 58) Scherbel U, Born CT, DeLong WG: "The Future of Fracture Healing". Presented Zimmer Trauma Meeting, Philadelphia, PA, May 2001
- 59) Scherbel U, Khurana JS, Born CT, DeLong WG: "Expression of Bone Inducing Factors in Rats With or Without a Fracture after Traumatic Brain Injury". Presented International Bone and Mineral Society and the European Calcified Tissue Society, 1<sup>st</sup> Joint Meeting of the IBMS. Madrid, Spain June, 2001
- 60) Khurana JS, Scherbel U, Born CT, DeLong WG: "Bone Growth in a Novel Osteoconductive Material for Artificial Bone". Presented International Bone and Mineral Society and the European Calcified Tissue Society, 1<sup>st</sup> Joint Meeting of the IBMS. Madrid, Spain June, 2001.
- 61) Khurana JS, Scherbel U, Born CT, DeLong WG: "Bone Morphogenetic Proteins (BMPs) and its Receptors (BMPR) are Expressed by Both Bone Forming and Non- Bone Forming Lesions". Presented International Bone and Mineral Society and the European Calcified Tissue Society, 1<sup>st</sup> Joint Meeting of the IBMS. Madrid, Spain, June 2001.
- 62) Scherbel U, Riess P, Born CT, DeLong WG: "Overexpression of Bone Related Growth Factors after Traumatic Brain Injury". Presented OTA 17<sup>th</sup> Annual Meeting, San Diego, CA, October 2001.
- 63) Scherbel U, Riess P, Khurana J, Born C, DeLong, WG: "Upregulation of Bone Related Growth Factors in Traumatic Brain Injured Animals". Presented EAST Mtg, Orlando, FL, January 2002.
- 64) Born CT, King PJ, Khoury L, DeLong WG: "Arthroscopically Assisted Removal of Retrograde Femoral Nails: Description of Technique and Intraarticular Findings at Long-Term Follow-Up. Presented OTA 18<sup>th</sup> Annual Meeting, Ontario, Canada, October 2002.

- 65) Scherbel UF, Born CT, Khurana JS, DeLong WG: Systemic Response to Severe Trauma and Head Injury, Scientific Poster Presentation at the 18<sup>th</sup> Annual Meeting of the Orthopaedic Trauma Association, Toronto, Canada, October, 2002.
- 66) Cotton BA, Gracias VH, Insko EK, Gupta R, Born CT, Schwab CW "Goniometry Predicts Inadequate Flexion-Extension Radiographs and Identifies Patients at High Risk for Cervical Spine Injury", Poster Presentation American Association for the Surgery of Trauma 2003 Annual Meeting, Minneapolis, Minnesota, 2003
- 67) Carrigan R, Born CT, Fitzpatrick MK, Reilly P: "Temporary Stabilization of Pelvic Fractures with the Trauma Pelvic Orthoptic Device in the Polytrauma Patient", Poster Presentation American Association for the Surgery of Trauma Annual Meeting, Orlando, Florida, September 2003. Also presented as a Poster Presentation at the 71<sup>st</sup> Annual meeting of the AAOS, San Francisco, California, March, 2004
- 68) Born CT, Hayda RL: "OTA Disaster Care: Military Models", an exhibit of a "fast-forward" surgical field unit displayed in conjunction with the US Army, Navy and Air Force at the 71<sup>st</sup> Annual Meeting of the AAOS, San Francisco, California, March, 2004.

#### **LECTURES BY INVITATION:**

- 1) November 1984. Combined Orthopaedic & Neurosurgical Grand Rounds. "A Previously Unreported Complication of Klippel-Feil Syndrome." Temple University Hospital, Philadelphia, PA.
- 2) January 1985. Pediatric Ground Rounds. "Torsional Problems in Children." Cooper Hospital/University Medical Center, Camden, NJ.
- 3) October 1985. Grand Rounds. "Intramedullary Fixation of Femoral Fractures." Hospital of the University of Pennsylvania, Philadelphia, PA.
- 4) October 1985. "Update on the Interlocking Nail." Pennsylvania Orthopaedic Society Fall Meeting. Philadelphia, PA.
- 5) January 1986. Pediatric Grand Rounds. "Congenital Dysplasia of Hip." Cooper Hospital/University Medical Center, Camden, NJ.
- 6) May 1986. "Results of Ender Nailing - The Cooper Medical Center Experience." University of Pennsylvania Orthopaedic Alumni Meeting. Philadelphia, PA.
- 7) September 1986. "What Does Scoliosis Mean for You." Sponsored by the Scoliosis Society. Voorhees, NJ.
- 8) November 1986. "Use of Ender Nails in Long Bone Fractures." Orthopaedic Grand Rounds. Hahnemann University Hospital, Philadelphia, PA
- 9) December 1986. "Use of Interlocking Nails in Femur Fractures." New Jersey Chapter of the American College of Surgeons 35th Annual Clinical Meeting. Parsippany, NJ.

- 10) January 1987. "Contemporary Approaches to the Poly Fracture Patient." Trauma Symposium. Thomas Jefferson University Hospital, Philadelphia, PA.
- 11) April 1987. "Pelvic Fractures." Grand Rounds, Hospital of the University of Pennsylvania, Philadelphia, PA.
- 12) May 1987. "Brooker-Wills Intramedullary Nailing of the Femoral Shaft." Orthopaedic Alumni Meeting, Hospital of the University of Pennsylvania, Philadelphia, PA.
- 13) November 1987. "Evaluation of Lumbar Spine Injuries in the Work Place." Presented at Campbell Industrial Medical Symposium, Cherry Hill, NJ.
- 14) December 1987. "Intramedullary Rodding of Femur Fractures." Pennsylvania College of Podiatric Medicine, Grand Rounds.
- 15) March 1988. "Spinal Cord Trauma" and "Extremity Trauma." Instructor, Advanced Trauma Life Support Course, University of Pennsylvania, Philadelphia, PA.
- 16) May 1988. "Maintaining a Healthy Back." Turnaround Center, Medical Department, Campbell Soup Company, Camden, NJ.
- 17) May 1988. "Evaluation and Treatment of Low Back Pain." Grand Rounds, Newcomb Hospital, Vineland, NJ.
- 18) September 1988. "Industrial Back Pain." OmniFit Fitness Seminar, Mt. Laurel, NJ.
- 19) September 1988. "Backs-II." Turnaround Center, Medical Department, Campbell Soup Company, Camden, NJ.
- 20) October 1988. "Orthopaedic Aspects of Poly-trauma." Grand Rounds, Newcomb Medical Center, Vineland, NJ.
- 21) October 1988. "Reflex Sympathetic Dystrophy." South Jersey Chapter of the Reflex Sympathetic Dystrophy Syndrome Support Group, Haddonfield, NJ.
- 22) October 1988. "Femur Fractures in the Poly-trauma Patient." Orthopaedic Grand Rounds, Hahnemann University School of Medicine, Philadelphia, PA.
- 23) April 1989. "Orthopaedic Trauma." Grand Rounds, Mediplex Rehabilitation Center, Camden, NJ.
- 24) October 1989. "Evaluation of Cervical Spine X-rays in the Poly-Trauma Patient." Orthopaedic Grand Rounds, Hahnemann University School of Medicine, Philadelphia, PA.
- 25) May 1990. "Management of Thoracolumbar Spine Trauma". Orthopaedic Grand Rounds, University of Pennsylvania School of Medicine, Philadelphia, PA.
- 26) May 1990. "Surgical Anatomy for Pelvic and Acetabular Fractures." University of Pennsylvania School of Medicine, Philadelphia, PA.
- 27) June 1990. "Pelvic and Acetabular Fractures." Grand Rounds, Mediplex Rehabilitation Center, Camden, NJ.

- 28) October 1990. "Femoral and Tibial Locking Nails." University of Pennsylvania Philadelphia Orthopaedic Resident Board Review Course, Philadelphia, PA.
- 29) October 1990. "History of Intramedullary Nailing in Femurs." Presented at "Advanced Concepts in Interlocking Nails" course. Robert Wood Johnson Medical School, Camden, NJ.
- 30) October 1990. "Non-operative vs. Operative Management of Lumbar Disc Disease." Grand Rounds, Southern Ocean County Hospital, Manahawkin, NJ.
- 31) December 1990. "Management of Cervical Spine Trauma." Orthopaedic Grand Rounds, University of Pennsylvania School of Medicine, Philadelphia, PA.
- 32) January 1991. Invited discussant. "A Prospective Analysis of a Two Year Experience Using CT Scan as an Adjunct for Cervical Spine Clearance." Fourth Scientific Assembly, Eastern Association for the Surgery of Trauma, Longboat Key, FL.
- 33) February 1991. "Spine and Spinal Cord Trauma." ATLS Course Instructor, Thomas Jefferson School of Medicine, Philadelphia, PA.
- 34) May 1991, "Pediatric Orthopaedic Trauma." Fifth Annual Philadelphia Orthopaedic Review Course, Philadelphia County Medical Society, Philadelphia, PA.
- 35) May 1991. "Radiology of Orthopaedic Trauma." Cooper Hospital/University Medical Center, Trauma Imaging Conference, Cherry Hill, NJ.
- 36) September 1991. "Evaluation of the Cervical Spine in the Critically Injured Patient." Orthopaedic Grand Rounds, Philadelphia College of Osteopathic Medicine, Philadelphia, PA.
- 37) September 1991. "Problem Fractures." Orthopaedic Trauma Conference, University of Pennsylvania School of Medicine, Philadelphia, PA.
- 38) October 1991. "Anatomy and Management of Pelvic and Acetabular Fractures." Guest Lecturer, Department of Orthopaedic Surgery, School of Osteopathic Medicine, University of Medicine and Dentistry of New Jersey, Camden, NJ.
- 39) November 1991. "Halo Traction." In-service, Department of Nursing, Cooper Hospital/University Medical Center, Camden, NJ.
- 40) May 1992. "Fractures of the Tibia." University of Pennsylvania/Graduate Hospital Orthopaedic Review Course, Atlantic City, NJ.
- 41) May 1992. "Pediatric Trauma." University of Pennsylvania/Graduate Hospital Orthopaedic Review Course, Atlantic City, NJ.
- 42) May 1992. "Fractures of the Thoracic and Lumbar Spine." Grand Rounds, Osteopathic Medical Center, Philadelphia, PA.
- 43) May 1992. "Assessment of Low Back Pain." Memorial Hospital of Salem County, NJ.

- 44) May 1992. "Office Evaluation of Low Back Pain." Medical Grand Rounds, Cooper Hospital/University Medical Center, Camden, NJ.
- 45) October 1992. Invited discussant "Infected Femur Fractures." Orthopaedic Trauma Association Annual Meeting, Minneapolis, MN
- 46) October 1992. Invited discussant "Functional Outcome After Operative Management of Femoral Shaft Fractures Below Orthopaedic Implants." Orthopaedic Trauma Association Annual Meeting, Minneapolis, MN.
- 47) December 1992. "Thoracolumbar Fractures." Orthopaedic Trauma Conference, Cooper Hospital/University Medical Center, Camden, NJ
- 48) January 1993. "Advances in Orthopaedic Trauma." Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand.
- 49) January 1993. Moderator "General Trauma Session 1." 6th Scientific Assembly Eastern Association for the Surgery of Trauma, Longboat Key, FL.
- 50) April 1993. "Femur Fractures." Mediplex Rehabilitation Hospital Lecture Series, Cherry Hill, NJ.
- 51) April 1993. Moderator for "Upper Extremity Injuries." Orthopaedic Trauma Association Regional Update Meeting, Phila., PA.
- 52) April 1993. Instructor "GSH Supracondylar Nail." Orthopaedic Trauma Association Regional Update Meeting, Phila., PA.
- 53) April 1993. "Acetabular Fractures: Classification." Orthopaedic Trauma Association Regional Update Meeting, Phila., PA.
- 54) April 1993. "Acetabular Fractures: Management." Orthopaedic Trauma Association Regional Update Meeting, Phila., PA.
- 55) April 1993. Instructor "ALTA Tibial Nail." Orthopaedic Trauma Association Regional Update Meeting, Phila., PA.
- 56) April 1993. Instructor: "Reconstruction Nails." Orthopaedic Trauma Association Regional Update Meeting, Philadelphia, PA.
- 57) June 1993. "Fractures of the Tibia." University of Pennsylvania/Graduate Hospital Orthopaedic Board Review Course, Philadelphia, PA.
- 58) June 1993. "Pediatric Trauma." University of Pennsylvania/Graduate Hospital Orthopaedic Board Review Course, Philadelphia, PA.
- 59) September 1993. "Acetabular Fractures: Classification and Surgical Management." Orthopaedic Grand Rounds, Philadelphia College of Osteopathic Medicine, Philadelphia, PA.
- 60) September 1993. Invited Discussant "The Acute Management of the Hemodynamically Unstable Patient with a Pelvic Fracture." Orthopaedic Trauma Association and American Association for the Surgery of Trauma Combined Meeting, New Orleans, LA.

- 61) October 1993. "Posterior Pelvic Stabilization: Sacral Bars and Iliosacral Screws." Fracture Management Symposium, Saddle Brook, NJ
- 62) January 1994 . Panel Moderator on "General Trauma." Eastern Association for the Surgery of Trauma, 7th Scientific Assembly, Freeport, Bahamas
- 63) March 1994. "Basic Science of the Musculoskeletal System." Department of Surgery, Cooper Hospital/University Medical Center, Camden, NJ.
- 64) September 1994, The GSH Retrograde Femoral Nail. Workshop Laboratory Instructor, Orthopaedic Trauma Association Annual Meeting, Los Angeles, CA.
- 65) November 1994. New Jersey Manufacturer's Insurance Company. "Pelvic Fractures and Multiple Trauma.", Trenton, NJ.
- 66) November 1994. Grand Rounds, Department of Medicine, Cooper Hospital/University Medical Center. "Osteomyelitis.", Camden, NJ.
- 67) November 1994. Planning Retreat, Eastern Association for the Surgery of Trauma.
- 68) November 1994. "Acetabular Fractures; Complications." Philadelphia College of Osteopathic Medicine. Philadelphia, PA.
- 69) January 1995. Invited Discussant "Functional Outcome of Patients with Unstable Pelvic Ring Fractures." Eastern Association for the Surgery of Trauma, 8th Annual Assembly, Sanibel, Florida.
- 70) January 1995. Panel Moderator. "The Trauma Patient at the Molecular Level." Eastern Association for the Surgery of Trauma, 8th Annual Assembly, Sanibel, Florida.
- 71) May 1995. "Management of Acetabular Fractures." Mediplex Rehabilitation Hospital, Camden, NJ.
- 72) May 1995. "Acetabular Fractures: State of the Art." Combined meeting: University of Pennsylvania and Thomas Jefferson University Medical College Orthopaedic Symposium.
- 73) September 1995, .Instructor "Supracondylar Femur Fractures." OTA 11th Annual Meeting, Tampa, Fl.
- 74) October 1995. Panel Moderator. "Ilizarov's Methods for Management of the Severely Injured Leg: Indications, Techniques, Results." III Eastern Orthopaedic Association Meeting, Rome, Italy.
- 75) September 1995. Invited speaker. "The Multiply Injured Patient." PMA Insurance Company
- 76) September 1995. "Classification of Supracondylar Femur Fractures." Orthopaedic Trauma Association Resident Fracture Course, Tampa, Fl.
- 77) October 1995. Invited Speaker. "Recruitment of Potential Trauma Surgeons into Fellowships." Academic Orthopaedic Society, Washington, D.C.
- 78) January 1996. Invited Discussant. "Long Term Outcomes following Lower Extremity Trauma." Eastern Association for the Surgery of Trauma, 9th Amended Scientific Assembly, Orlando, Fl.

- 79) August 1996. Faculty member, AO/ASIF Orthopaedic Residents Course, Chattanooga TN.
- 80) August 1996. "Pelvic Fractures-Who should have surgery?" AO/ASIF Orthopaedic Residents course. Chattanooga, TN.
- 81) August 1996. "Intertrochanteric Hip Fractures." AO/ASIF Orthopaedic Residents course. Chattanooga, TN.
- 82) September, 1996. "Classification of Supracondylar Femur Fractures." Orthopaedic Trauma Association Resident Fracture Course, Boston, MA.
- 83) December 1996. Invited Speaker "Supracondylar Femur Fractures – Plates." Trauma Update, New York, NY
- 84) December 1996. Invited Speaker "Tibial Shaft Fractures – Closed." Trauma Update, New York, NY
- 85) January 1997. Invited Discussant "Outcome Following Early Fixation of Pelvic Fixators." Eastern Association for the Surgery of Trauma 10th Annual Meeting, Sanibel, FL
- 86) February 1997, Visiting Professor "Acetabular Fractures." Grand Rounds, Atlantic City Medical Center. Atlantic City, NJ
- 87) March 1997. Panelist, Thrombosis Forum. Philadelphia, PA.
- 88) April 1997. Moderator and Presenter Combined Orthopaedics in Educational Update Meeting. "Supracondylar Femur Fractures." Univ. of PA and Thomas Jefferson Univ., Philadelphia, PA.
- 89) May 1997. Invited Speaker "Talus Fractures-ORIF" Orthopaedic Trauma Update, Pittsburgh, Pa.
- 90) May 1997. Invited Speaker "Syndesmosis Injuries of the Ankle/Tibia: Current Concepts." Orthopaedic Trauma Update, Pittsburgh, Pa.
- 91) May 1997. Instructor, Workshop "Calcaneus Fractures-ORIF", Orthopaedic Trauma Update, Pittsburgh, Pa.
- 92) June 1997. "Principles of Fractures and Dislocations: the Multiply Injured Patient." Grand Rounds, Department of Orthopaedic Surgery, University of Pennsylvania Health System.
- 93) September 1997. "Acetabular Trauma." Grand Rounds, Department of Orthopaedic Surgery, University of Pennsylvania Health System
- 94) September 1997. "Radiologic Evaluation of the Cervical Spine." Division of Trauma, University of PA. Philadelphia, PA.
- 95) October 1997. Invited Discussant "High Pressure Pulsatile Lavage Irrigation of Fresh Fractures: Effects on Fracture Healing." Orthopaedic Trauma Association
- 96) 13th Annual Meeting, Louisville, KY.
- 97) October 1997. Invited Discussant "The Efficacy of Gentamycin Impregnated Resorbable Calcium Phosphate Cement in Treating Osteomyelitis in a Rat Model." Orthopaedic Trauma Association 13th Annual Meeting, Louisville, KY.



- 98) October 1997. Invited Discussant "Metal Sensitivity in Patients with Orthopaedic Injuries." Orthopaedic Trauma Association 13th Annual Meeting, Louisville, KY.
- 99) October 1997. "Supracondylar Femur Fractures Classification." Orthopaedic Trauma Association Resident Fracture Course 13th Annual Meeting, Louisville, KY.
- 100) February 1998. Invited Speaker. "Pelvic Fractures." UPHS Swedish Trauma Training Program. Phila, PA.
- 101) April 1998. . Visiting Professor "Subtrochanteric Femur Fractures." Winthrop University Hospital. Islip, NY.
- 102) April 1998. Visiting Professor. "Retrograde Femoral Nailing in the Multiply Injured Patient" and "The Gamma Nail Revisited: The Long and the Short of it." University of Utah School of Medicine. Salt Lake City, UT.
- 103) April 1998. "Patello-Femoral Pain Syndrome." Univ. PA. Penn Sports Medicine Conf., Phila. PA.
- 104) April and May 1998. "Pelvic Fractures." UPHS Swedish Trauma Training Program. Phila, PA.
- 105) June 1998. Invited Speaker "Vascular Surgery with Fractures." American College of Surgeons. Trauma and Critical Care Conf. Lake Buena Vista, FL.
- 106) June 1998. Invited Speaker "External Fixation/Internal Fixation-Where Do They Fit." American College of Surgeons. Trauma and Critical Care Conf. Lake Buena Vista, FL.
- 107) July 1998. Invited Speaker "IM Nails of the Lower Extremity." 4th Annual Trauma Symposium, Brooke Army Medical Center. San Antonio, TX.
- 108) September 1998. Visiting Professor "Management of Pelvic Ring Injuries." St. Luke's Hospital, Bethlehem, PA.
- 109) September 1998. Orthopaedic Grand Rounds "Retrograde Femoral Nailing." Thomas Jefferson Univ. Hospital, Philadelphia, PA.
- 110) October 1998. "Classification of Supracondylar Femur Fractures." Residents Fracture Course. 14<sup>th</sup> Annual Orthopaedic Trauma Association Meeting, Vancouver, BC, Canada.
- 111) October 1998. Instructor "Spectrum of Retrograde Femoral Nailing." Workshop 14<sup>th</sup> Annual Orthopaedic Trauma Association Meeting, Vancouver, BC, Canada.
- 112) November 1998. Visiting Professor. "Operative Management of Unstable Pelvic Ring Fractures." Brandywine Hospital Trauma Grand Rounds, Coatesville, PA.
- 113) November 1998. Visiting Professor. "Current Concepts in Retrograde Femoral Nailing." Mt. Sinai Hospital, New York City, NY.
- 114) April 1999, Invited Speaker St. Luke's Medical Center Symposium: "Tibial Nails: reamed vs unreamed" and "The Use of the Long Gamma Nail in Subtrochanteric Femur Fractures", Bethlehem, PA.

- 115) April 1999, University of Pennsylvania Health System. Penn Relays Sports Medicine Symposium “Evaluation of the Patellofemoral Joint”. Philadelphia, PA.
- 116) May 1999, Invited Speaker Columbia University College of Physicians and Surgeons: “Open Reduction Internal Fixation-Humeral Shaft Fracture Nailing-Plating” and “What’s New in Fixation? Intramedullary Fixation for Unstable Intertrochanteric Fractures”. New York, NY.
- 117) May 1999, Invited Speaker Emory University School of Medicine. Orthopaedic Trauma Symposium: Trauma Issues for the Next Millennium. “Supracondylar Femur Fractures” and “IM Tibial Nails: To Ream or Not To Ream” . Atlanta, GA.
- 118) May 1999, Provacteur, University of Pennsylvania Health System Research Day: “New Advances in Management of Pediatric Pelvic Fractures”. Philadelphia, PA.
- 119) June 1999, Invited Speaker Mid-West Medical Associates. The Gamma Nail: Indications and Operative Technique. Wichita, KS.
- 120) September 1999, "Acetabular fractures: Classification and Current Management Techniques", Grand Rounds, Department of Orthopaedic Surgery, University of Pennsylvania Health System, Philadelphia, Pa.
- 121) October 1999 Panelist "Current Treatment of Blunt Abdominal/Pelvic Trauma: Dealing with the unstable pelvic ring". American College of Surgeons Clinical Congress. San Francisco, CA.
- 122) October 1999 Presentation, “Classification of Supracondylar Femur Fractures”. Orthopaedic Trauma Association 14<sup>th</sup> Annual Meeting, Resident’s Fracture Course. Charlotte, NC.
- 123) December 1999 Invited Speaker “Plating of Supracondylar Femur Fractures” and Laboratory Moderator “Tibial Plateau Plating” and “Tibial Nailing”, Trauma Update Symposium, Education Design. New York, NY
- 124) December 1999 Invited Speaker “Management of Unstable Pelvic Ring Injuries”. Dept of Surgery/Division of Trauma, University of Pennsylvania Health System. Philadelphia, PA.
- 125) January 2000 Invited Discussant “Improvement of Cervical Spine Clearance in Blunt Trauma Patients Following Implementation of Clinical Guidelines”. Eastern Association for the Surgery of Trauma Annual Meeting, Sanibel, FL.
- 126) February 2000 Invited Speaker “Retrograde Femoral Nailing: Technique and Complications”, “Unstable Intertrochanteric and Subtrochanteric Fractures” and “Aspects of Treatment of Supracondylar Fractures ORIF vs. Nailing”, Workshop Moderator “Retrograde Nailing of the Femur”. 21<sup>st</sup> Orthopaedic Trauma Seminar, Snowmass, CO.
- 127) March 2000 Invited Speaker "Epidemiologic and Physiologic Considerations in Trauma in the Elderly" and Panel Moderator "High Energy Injury in the Elderly". American Academy of Orthopaedic Surgeons Specialty Day, Orlando, FL.
- 128) May 2000 Invited Speaker "Aspects of Pelvic Stability". For the Swedish Trauma Team, Department of Surgery/ Division of Trauma University of Pennsylvania Health System. Philadelphia, PA.

- 129) May 2000 Invited Speaker "Trauma and Critical Care 2000 -Point Counterpoint XIX: Mangled Extremity - Musculoskeletal Considerations". American College of Surgeons Eastern States Committees on Trauma. Atlantic City, NJ
- 130) June 2000 Invited Speaker "New Techniques in Fracture Management: Trauma Series 2000; " Complex Proximal Femur Fractures". Englewood, CO
- 131) June 2000 Invited Speaker "Proximal Femoral Fractures: The Long Gamma Nail". Community Medical Center, Toms River, N.J
- 132) July 2000 Visiting Professor "Orthopaedic Trauma: Any Takers?" (Keynote Address) and "A New Paradigm for Proximal Femur Fractures" (Clinical Paper). University of Washington, Harborview Orthopaedic Alumni Scientific Symposium 2000. Seattle, WA
- 133) September 2000 Invited Speaker "Current Management of Unstable Proximal Femur Fractures with the Gamma Nail", West Florida Orthopaedic Group, Sarasota, Florida
- 134) October 2000 Invited Speaker "Management of Massive Pelvic Trauma" at the 86<sup>th</sup> Clinical Congress of the American College of Surgeons Trauma Symposium, Chicago, Ill.
- 135) October 2000 Visiting Professor Swedish Trauma Team Training Program, The Linköping University and the Swedish Ministry of Health and Welfare, Linköping, Sweden
- 136) November 2000 Visiting Professor Swedish Armed Forces Damage Control Course, Swedish National Defense Medical Service/ Military Defense Medical Center, Hamarröe, Sweden.
- 137) December 2000 Grand Rounds. "Management of the Mangled Extremities." Hospital of the University of Pennsylvania, Philadelphia, PA.
- 138) December 2000. Invited Speaker. Supracondylar Fractures: Plate Fixation. Trauma Update, New York, NY.
- 139) January 2001 Visiting Professor. New Concepts in the Management of Proximal Femoral Fractures. University of Missouri School of Medicine, Department of Orthopaedic Surgery, Columbia, MO.
- 140) February 2001 Invited Speaker. Topics in Trauma Symposium "Management of Unstable Pelvic Fractures", Brandywine Hospital, King of Prussia, PA.
- 141) March 2001 Invited Speaker "The Role of the Gamma Nail in Proximal Femoral Fractures" Orthopaedic Group of West Florida, Fort Meyers, FL.
- 142) March 2001 Invited Speaker "Role of the OTA in Disaster Response" Presented at the Annual Meeting of the American College of Surgeons / Committee on Trauma Symposium "Challenges of Disaster Medical Response: are trauma surgeons prepared?". Tampa, FL.
- 143) March 2001 Visiting Professor MCP- Hahnemann Department of Orthopaedic Surgery 'Management of Proximal Femur Fractures with Gamma Nail'
- 144) April 2001 Invited Speaker University Hospital at Stony Brook, Stony Brook Trauma Conference: "Current Management Techniques for Complex Proximal Femur Fractures". Stony Brook, N.Y.

- 145) May 2001 Visiting Professor The University of Vermont Orthopaedic Trauma Lecture Series. "A New Paradigm for Management of Proximal Femur Fractures", "The Mangled Lower Extremity", "Orthopaedic Fracture Care: Looking into the Future". Burlington, VT
- 146) May 2001 Invited Speaker and Moderator Philadelphia Trauma Update Meeting. "Humeral Shaft Fractures: To Plate; To Nail", "Retrograde Femoral Nailing", "Supracondylar Fractures: Plate Fixation". Philadelphia, PA.
- 147) May 2001 Invited Speaker Pennsylvania Orthopaedic Society, Spring Scientific Meeting. "What's New in Fracture Care: Looking Into the Crystal Ball". Miami, FL.
- 148) September 2001 Invited Speaker Philadelphia College of Osteopathic Medicine. "Case Studies in Orthopaedic Trauma". Philadelphia, PA.
- 149) September 2001 Moderator "Current Orthopaedic Trauma Topics", Orthopaedic Journal Club, Philadelphia College of Osteopathic Medicine Adams Mark Hotel, Philadelphia, PA.
- 150) October 2001 Invited Speaker 3<sup>rd</sup> Annual Boston Orthopaedic Trauma Symposium, Boston World Trade Center. "Periprosthetic Fractures". Boston, MA
- 151) October 2001 Visiting Professor Albert Einstein Medical School Grand Rounds presentation. "Use of the Gamma Nail for Complex Femur Fractures". Albert Einstein University, Philadelphia, PA
- 152) October 2001 Course Director Laboratory program for "IM Nailing of Proximal Femur Fractures" Orthopaedic Trauma Association Resident's Basic Fracture Course, San Diego, CA.
- 153) November 2001 Invited Speaker "Management of Complex Proximal Femur Fractures with Intramedullary Nailing" and "Retrograde Nailing of Femur Fractures", Burlington county Orthopaedic Surgeons, Laurel Creek Country Club, Burlington, New Jersey.
- 154) November 2001 Invited Speaker "Plating of supracondylar Femur Fractures", Zimmer Trauma Update, New York City, New York.
- 155) December 2001 Invited Speaker "Concepts in Orthopaedic Trauma", Department of Surgery, Pennsylvania Hospital, Philadelphia, PA.
- 156) January 2002 Invited Speaker Management of Proximal Femur Fractures with IM Nails", Atlantic Shore Orthopaedic Surgeons, Absecon, NJ
- 157) January 2002 Invited Speaker "Orthopaedic Damage Control", Trauma Symposium, Eastern Association for the Surgery of Trauma, Orlando, Florida
- 158) January 2002 Moderator Journal Club Department of Orthopaedic Surgery, Hahnemann University Hospital, Philadelphia, PA
- 159) January 2002 Visiting Professor "Spinal Trauma", "Orthopaedic Damage Control", "External Fixation in Musculoskeletal Trauma". Center for Disaster Medicine, Linköping University In conjunction with the Swedish Ministry of Health and Welfare, Linköping, Sweden
- 160) February 2002, Invited Speaker "Low Energy Pediatric Sports Injuries", South Jersey Youth Soccer Program, Maple Shade, NJ

- 161) March 2002 Invited Speaker "Management of Pelvic Trauma with the Pelvic Binder (TPOD)". Cyber Technologies, Amelia Island, Florida
- 162) March 2002 Invited Speaker "Complex Proximal Femur Fractures". Management with the Gamma-Type Nail", Western Florida Orthopaedic Surgical Group, Naples, Florida
- 163) April 2002 Invited Speaker "Management of Complex Proximal Femur Fractures using Intramedullary Nails", "Disaster Planning, "Emerging Technologies in Orthopaedic Trauma". New Jersey Orthopaedic Society Spring Conference, Advances in Orthopaedics, 2002. Nevis, BWI.
- 164) May 2002 Invited Speaker Born CT: "Plating of Supracondylar Femur Fractures", "Strategies for Nailing Low Tibia Fractures", Philadelphia Trauma Symposium, Philadelphia, Pa.
- 165) May 2002 Invited Speaker "IM Nailing of Proximal Femur Fractures-Pearls and Pitfalls". North Shore Long Island Orthopaedic Surgeons, Stony Brook, NY
- 166) May 2002 Invited Speaker "Current Concepts of Proximal Femur Fractures with Intramedullary Nails". Philadelphia College of Osteopathic Medicine. Phila, PA.
- 167) June 2002 Invited Speaker "New Concepts in Femoral Nailing". University of Pennsylvania, Department of Orthopaedics Annual Alumni Lecture, Philadelphia, PA.
- 168) June 2002 Visiting Professor "Intramedullary Rodding in the Management of Complex Proximal Femur Fractures". Department of Orthopaedic Surgery, University of Miami School of Medicine, Miami, FL.
- 169) July 2002 Visiting Professor "3<sup>rd</sup> Generation Nailing of Proximal Femur Fractures". Monmouth Medical Center Department of Orthopaedic Surgery, Long Branch, NJ
- 170) August 2002 Invited Speaker "Damage Control Orthopaedics". 4<sup>th</sup> Annual Trauma Symposium. Chicago, IL
- 171) September 2002 Invited Speaker "Management of Fractures and Dislocations of the Elbow", "Management of Proximal Humeral Fractures with Internal Fixation", Orthopaedic Damage Control: More than Just External Fixation", "Proximal Femur Fractures: Think IM Nail", "Plating of Supracondylar Femur Fractures", 7<sup>th</sup> Annual Residents Orthopaedic Review Symposium, Phoenix, Arizona.
- 172) September 2002 Invited Speaker "Temporize to Save Lives: Damage Control Orthopaedics", "Periprosthetic Femur Fractures", 4<sup>th</sup> Annual Boston Orthopaedic Trauma Symposium, Boston, Mass.
- 173) October 2002 Invited Speaker "Damage Control Considerations in the Badly Injured Patient", Department of Surgery, Trauma Grand Rounds, University of Pennsylvania, Philadelphia, PA.
- 174) October 2002 Invited Speaker "Use of the Gamma Nail for Complex Proximal Femur Fractures", Montgomery County Orthopaedic Surgeons Conference, Exton, PA.
- 175) October 2002 Invited Speaker "Damage Control Orthopaedics: Salvaging the Patient and Extremity" in Graduate Education Program on "Damage Control in Trauma and Emergency Surgery: New Applications', American College of Surgeons 88<sup>th</sup> Annual Clinical Congress, San Francisco, CA.

- 176) October 2002 Invited Speaker/Moderator “Technique for 3<sup>rd</sup> Generation Nailing of Proximal Femur Fractures”, Presented Gamma Nail Workshop, Resident's Basic Fracture Course. Orthopaedic Trauma Association, Ontario Canada.
- 177) November 2002 Visiting Professor “Techniques for External Fixation”, “Damage Control Orthopaedics”, “Management of Spinal Trauma”, Center for Disaster Medicine, Swedish Trauma Training Program in conjunction with the Swedish Ministry of Health and Welfare, Linköping University, Linköping, Sweden.
- 178) November 2002 Visiting Professor “Disaster Management of the Severely Injured Patient”, Department of Orthopaedic Surgery, Hahnemann Hospital/ Drexel University School of Medicine, Philadelphia, Pa.
- 179) November 2002 Moderator Department of Orthopaedic Surgery Journal Club, Philadelphia College of Osteopathic Medicine, Philadelphia, Pa.
- 180) December 2002 Invited Speaker “Plating of Supracondylar Femur Fractures”, Zimmer 2002 Trauma Update Course, New York, NY
- 181) January 2003 Invited Speaker, “Current Concepts in the Management of Orthopaedic Trauma” Orthopaedic Trauma Nursing Symposium, University of Pennsylvania, Philadelphia, Pa.
- 182) January 2003 Invited Speaker, Orthopaedic Surgical Conference, “ New Perspectives of Proximal Femur Fractures”, Stryker, Arlington, VA.
- 183) February 2003 Invited Speaker “Disaster Preparedness: What Can We Do As Physicians?” Orthopaedic Trauma Association Specialty Day Program, New Orleans, LA.
- 184) March 2003 Invited Speaker, “Strategies for Nailing Distal Tibia Fractures” and “Management of Multifocal Femur Fractures”, 24<sup>th</sup> Annual Trauma Conference, Snowmass, CO.
- 185) March 2003 Invited Speaker, “Evaluation and Management of Pelvic Fractures”. Swedish Trauma Training Teams, Department of Surgery, Division of Trauma, University of Pennsylvania, Philadelphia, PA.
- 186) April 2003 Invited Speaker, “Locked Plating: LISS and LCP: Historical background and indications” UMDNJ/School of Osteopathic Medicine, Cherry Hill, NJ
- 187) April 2003 Invited Speaker, “Principles of IM Nailing for Proximal Femur Fractures”, Orthopaedic Surgical Group of Portland, Portland, OR.
- 188) April 2003 Invited Speaker, “Osteoporosis: What every Orthopaedic Surgeon Needs to Know” and “Knee Dislocations: Evaluation and Management”, 3<sup>rd</sup> Annual AAOS/OTA Trauma Course: Current Concepts and Practical Solutions, Orlando, FL.
- 189) May 2003 Invited Speaker, “Mass Casualties and Disaster Management” and “IM Nailing of Proximal Femur Fractures”, Annual Meeting, Stryker Trauma, Las Vegas, Nevada.
- 190) May 2003 Invited Speaker, “Patient Access to Trauma Care: The Impending Crisis”, Rally to Preserve Patient Care, Pennsylvania Orthopaedic Society, Philadelphia, PA.

- 191) May 2003 Invited Speaker, “Evaluation and Management of Pelvic Fractures”. Swedish Trauma Training Teams, Department of Surgery, Division of Trauma, University of Pennsylvania, Philadelphia, PA.
- 192) May 2003 Invited Speaker, “It’s Come to This....”, Pa and NJ Medical Societies rally for Medical Liability Reform, Love Park, Philadelphia, PA
- 193) June 2003 Invited Speaker “BMPs and the use of OP-1 Recombinant Protein for Healing of Long Bone Nonunions”, Grand Rounds, York Hospital, York, Pa.
- 194) August 2003 Invited Speaker “Damage Control in Orthopaedic Surgery”, U.S. Army Medical Command and the Henry L. Jackson Foundation for the Advancement of Military Medicine, 9<sup>th</sup> Annual Trauma Symposium, Brooke Army Medical Center, San Antonio, Texas
- 195) September 2003 Invited Speaker “Management of Intra and Extraarticular Fractures of the Distal Femur: When to Nail, When to use a Locking Plate, and What is MIPPO”, “Closed Tibial Shaft Fractures: Timing, Techniques and Complications” at Advanced Concepts of Fracture Management, University of Pittsburgh Medical Center, Pittsburgh, PA.
- 196) September 2003 Invited Speaker “New techniques for IM nailing of distal tibia fractures”, Orthopaedic Grand Rounds, Cooper University Hospital, Camden, NJ.
- 197) September 2003 Invited Speaker “Damage Control and Orthopaedic Trauma”, Resident Conference, Department of Orthopaedic Surgery, University of Pennsylvania, Philadelphia, PA.
- 198) October 2003 Moderator “Multidisciplinary Management of the Complex Lower Extremity Injury” and “Initial Orthopaedic Stabilization”, American College of Surgeons 2003 Clinical Congress, Chicago, IL
- 199) October 2003 Press Briefing “Disaster Management and the Surgeon: how the ACS is working to strengthen the nation’s trauma systems network”, American College of Surgeons Committee on Trauma, 2003 Clinical Congress, Chicago, IL.
- 200) October 2003 Visiting Professor “Management of Femur Fractures: The Gamma Nail Technique”, Penn State University Department of Orthopaedic Surgery, Hershey, PA
- 201) October 2003 Laboratory Director, “Nailing of Proximal Femur Fractures with the Gamma-Type Nail”, 19<sup>th</sup> Annual Meeting of the Orthopaedic Trauma Association. Salt Lake City, Utah.
- 202) October 2003 Invited Speaker Philadelphia College of Osteopathic Medicine Journal Club, “IM Nailing of Distal Tibia Fractures”, Philadelphia, PA
- 203) November 2003 Visiting Professor Bowman Gray School of Medicine, Wake Forrest University Department of Orthopaedic Surgery, “Strategies for IM Nailing of the Distal Tibia” and “Damage Control Orthopaedics”
- 204) November 2003 Invited Faculty Orthopaedic Trauma Alliance of Arizona 1<sup>st</sup> Annual Interactive Workshop, “Use of Cephalomedullary Nails for the Management of Proximal Femur Fractures”, Phoenix, Arizona.
- 205) November 2003 Visiting Professor Hahnemann University Department of Orthopaedic Surgery, “Use of New Intramedullary Nails for Lower Tibia Fractures”, Philadelphia, PA.

- 206) December 2003 Invited Speaker Trauma Update 2003, "Locked Plating of Supracondylar Fractures", "Schatzker IV Tibial Plateau Fractures", New York City, New York.
- 207) December 2003 Keynote Speaker, The Annual Day of Trauma Surgical and Critical Care Symposium, Trauma Directors of Greater Philadelphia, "Orthopaedic Considerations for the Severely Injured Patient: When and When Not to Operate", The Union League, Philadelphia, PA.
- 208) January 2004 Invited Speaker, combined meeting Physicians for Human Rights, International Health Organization and Temple Care, "Iran Earthquake: American physician disaster relief efforts", Temple University School of Medicine, Philadelphia, PA.
- 209) February 2004 Invited Speaker, Department of Medicine Grand Rounds, "International Medical Surgical Response Team: Experiences in Bam, Iran after the earthquake", Temple University School of Medicine, Philadelphia, PA
- 210) March 2004 Invited Speaker, Orthopaedic Rehabilitation Association, "Heterotopic Ossification in Orthopaedic Trauma", 71<sup>st</sup> Annual Meeting of the AAOS, San Francisco, CA.
- 211) May 2004 Invited Speaker "Management of Fractures of the Lower Tibia with Intramedullary Nailing, Orthopaedic Surgical Group of Wichita, Wichita, KS
- 212) May 2004 Invited Speaker "Osteoporosis for the Orthopaedic Surgeon", "Management of Knee Dislocations", and "Periprosthetic Fractures about the Hip and Knee", 4<sup>th</sup> Annual AAOS/OTA Trauma Course, Phoenix, AZ
- 213) September 2004 Invited Speaker "Is the DHS Dead?", Pennsylvania Orthopaedic Trauma Symposium, Pittsburgh, PA
- 214) September 2004 Invited Speaker "Disaster Preparedness: Overseas deployment to Bam, Iran to aid earthquake victims. Association of Surgical Technologists Surgical Forum, Chicago, IL
- 215) October 2004 Invited Speaker "Disaster Management: Blast and extremity injuries", Advanced Disaster Medical Response Course. 20th Annual Meeting of the Orthopaedic Trauma Association, Ft Lauderdale, FL
- 216) November 2004 Invited Speaker "Fractures of the Femoral Shaft and Distal Femur: Diagnosis and management", and "Tibial Shaft Fractures: Diagnosis and management", Pennsylvania Orthopaedic Society, Philadelphia, PA
- 217) November 2004 Invited Speaker "Proximal Femur Fractures: Plate or IM Nail?", Orthopaedic Surgeons of Lehigh Valley.
- 218) November 2004 Grand Rounds ST. Luke's Hospital, "Disaster Preparedness: The IMSuRT experience in Bam, Iran", St. Luke's Hospital, Bethlehem, PA.
- 219) December 2004 Invited Speaker "Management of Severe Pelvic Injuries", Trauma Nursing Symposium, Temple University Hospital, Philadelphia, PA
- 220) December 2004 Invited Speaker "Current Concepts in Hip Fracture Management", Washington Orthopaedic Society, Sibley Hospital, Washington, DC.



- 221) January 2005 Invited Speaker “Blast and Crush Injuries”, Disaster Management Workshop, Eastern Association for the Surgery of Trauma, Ft Lauderdale, FL
- 222) March, 2005 Invited Speaker “Mgt of Low Tibia Fractures with IM Nails”, “Neck Shaft Fractures, what now?”, “3<sup>rd</sup> Generation Nails”, State of the Art in Orthopaedics-Trauma 2005, Snowmass, CO
- 223) March, 2005 Invited Speaker “Damage Control in Orthopaedic Surgery: when to operate”, Grand Rounds, Department of Surgery, Temple University, Philadelphia, PA
- 224) April, 2005 Invited Speaker “Extremity Injuries with Head and Torso Trauma”, Multidisciplinary Approaches to Multisystem Trauma: Issues and Priorities, American College of Surgeons 33<sup>rd</sup> Annual Spring Meeting, Hollywood, FL
- 225) April, 2005 Invited Speaker “Knee Dislocations”, “Early Evaluation of the Polytrauma Patient”, “Osteoporosis: What every orthopaedic surgeon should know”, 5<sup>th</sup> Annual AAOS/OTA Trauma Course: Current Management Concepts, Surgical Techniques and Practical Solutions for Orthopaedic Trauma Problems, Miami, FL.
- 226) May, 2005 Invited Speaker “External Fixation for the Military”, In conjunction with the University of Pennsylvania Advanced Trauma Operative Management Course (ATOM), Philadelphia, PA.
- 227) May, 2005 Janet Stallini Memorial Lecture “Diagnosis and Management of Combination Femoral Neck and Shaft Fractures” and “Femur Fractures” Temple Shriners Alumni Foundation, Abington, PA.
- 228) May, 2005 Visiting Professor “Damage Control and External Fixation”, Department of Orthopaedic Surgery, St Luke’s/Roosevelt Hospital, New York, NY.
- 229) May, 2005 Invited Speaker “Management of A3 Femur Fractures”, Grand Rounds, Department of Orthopaedic Surgery, University of Pennsylvania, Philadelphia, PA.
- 230) June, 2005 Invited Speaker “Management of Complex Proximal Femur Fractures with Intramedullary Nails”, Orthopaedic Surgical Group Meeting, Harrisburgh, PA
- 231) September, 2005 Invited Speaker “Crisis: Orthopaedic Emergency Room Call”, “Locked Plating, The supracondylar femur as a paradigm”, “Is the DHS Dead?”, 2<sup>nd</sup> Pennsylvania Orthopaedic Trauma Symposium, Philadelphia, PA
- 232) September, 2005 Invited Speaker “Tips and Pearls for the Management of Proximal Femur Fractures” For Newport Hospital Orthopaedic Surgeons, Newport, RI
- 233) October, 2005 Invited Speaker “Blast Injuries: the fourth weapon of mass destruction”, at the Postgraduate Course on Disaster and Mass Casualty Management of the American College of Surgeons 91<sup>st</sup> Clinical Congress
- 234) October 2005, Invited Speaker “Intramedullary Nailing of Proximal Femur Fractures”, The Memorial Hospital of Rhode Island, Pawtucket, RI
- 235) November, 2005 Invited Speaker Live International Webcast “Operative fixation of intertrochanteric fractures with the Gamma3 System”, for the Stryker Corporation broadcast from Memphis, TN
- 236) December 2005, Invited Speaker “Management of Proximal Femoral Fractures with IM Nails”, Orthopaedic Surgical Group, Providence, RI
- 237) January 2006, Invited Speaker “Articular Fractures of the Proximal Humerus” and “Assessment and Emergency Management of Pelvic Ring Fractures”, Basic Principles and Techniques of Operative Fracture Management, AO North America Educational Foundation, Philadelphia, PA.

- 238) March 2006, Invited Speaker “Point/Counterpoint, Immediate closure of open fractures”, Orthopaedic Trauma Association Specialty Day at the AAOS meeting, Chicago, IL
- 239) April 2006, Invited Speaker “Crisis in the Emergency Room: Social contract?”, “Subtrochanteric fractures: IM Nail vs. Plate?”, “Knee Dislocations”, “Locked plating: Supracondylar femur fractures as a model” and “Blast injuries: The fourth weapon of mass destruction”, 6<sup>th</sup> Annual AAOS/OTA Trauma Course, St. Augustine, FL.
- 240) July 2006, Invited Speaker “Treatment of Difficult Proximal Femur Fractures”, Grand Rounds South Shore Hospital, South Weymouth, MA.
- 241) September 2006, Invited Speaker “Open fractures and soft tissue injuries”, Grand Rounds, Department of Surgery, Division of Plastic Surgery, Rhode Island Hospital
- 242) September 2006, Invited Speaker “Comparison of efficacy: Gamma3® vs Intertan® and TFN® nails for management of proximal femur fractures”, Stryker Trauma Leadership meeting, Dallas, Texas
- 243) October 2006, Invited Speaker “Pathophysiology and Injury Patterns-Blast” at the Disaster and Mass Casualty Management Course held in conjunction with the Orthopaedic Trauma Association 22<sup>nd</sup> Annual meeting, Phoenix, AZ
- 244) October 2006, Invited Speaker “Pathophysiology and Injury Patterns:Blast”, Symposium: Preparing Your Community: How to Structure a Mass Casualty Disaster Response at the American College of Surgeons 92<sup>nd</sup> Annual Clinical Congress, Chicago, IL
- 245) October 2006, Invited Speaker “Amputations”, Department of Orthopaedic Surgery 3<sup>rd</sup> Annual Amputee Rehabilitation Conference, Providence, RI
- 246) November 2006, Invited Speaker “Subtrochanteric Fractures” and “Femoral Neck/Shaft Fractures”, 1<sup>st</sup> International Trauma Symposium, Orlando, FL
- 247) December 2006, Invited Faculty, “Intertrochanteric Fractures and Intracapsular Hip Fractures”, AAOS Surgical Skills Program, Orthopaedic Learning Center, Rosemont, IL
- 248) February 2007, Invited Speaker, “Pearls and Pitfalls in the Management of Proximal Femoral Fractures”, Orthopaedic Surgeons of Cape Cod Hospital
- 249) February 2007, Invited Speaker, “Blast Injury, Pathophysiology and Injury Patterns”, ORS/AAOS Symposium, Orthopaedic War Injuries from Combat Casualty Care to Definitive Treatment, at the 53<sup>rd</sup> Annual Meeting of the Orthopaedic Research Society, San Diego, CA.
- 250) April 2007, Invited Speaker, “Orthopaedic On-Call Crisis”, “Locked Plating of Supracondylar Femur Fractures”, “Spanning External Fixation and Portable Traction”, 7<sup>th</sup> Annual AAOS/OTA Orthopaedic Trauma Course: Current Management Strategies, St. Augustine, FL.
- 251) June 2007, Invited Speaker, “Overview of the Management of Proximal Femur Fractures”, Regional Orthopaedic Surgeons/South-Central Connecticut, Westport, CT
- 252) July 2007, Invited Speaker “Avoiding Potential Complications with the Gamma3 IM Nail”, Mid Year National Sales Meeting , Stryker Trauma, Las Vegas, NV
- 253) September 2007, Invited Speaker “Intramedullary Nailing of Low Tibia Fractures”, 4<sup>th</sup> Annual Pennsylvania Trauma Symposium, Philadelphia, PA
- 254) October 2007, Visiting Professor “Disaster Planning” and “Pilon Fractures”, University Of Connecticut Orthopaedic Residency Program, Farmington, CT
- 255) October 2007, Invited Lecturer “Disaster Planning”, “Blast Injury”, Disaster Management and Emergency Preparedness Course, Orthopaedic Trauma Association, October 17, Boston, MA
- 256) November 2007, Invited Lecturer “Open Fractures”, Department of Plastic and Reconstructive Surgery, Brown University/ Rhode Island Hospital, Providence, RI
- 257) March 2008, Invited Speaker “Regenerative and Restorative Techniques to Treat Severe Limb Injuries”, Instructional Course Lectures/Symposium on Orthopaedic War Injuries: New Developments in Treatment and Research with associated media briefing, AAOS 75<sup>th</sup> Annual Meeting, San Francisco, CA
- 258) March 2008, Invited Speaker “Disaster Management and the Orthopaedic Surgeon”, Research Triangle Park Orthopaedic Society, Raleigh, NC
- 259) April 2008, Visiting Professor “Disaster Preparedness for the Orthopaedic Surgeon” and “Trauma and Obesity”, Landstuhl Regional Medical Center, Landstuhl, Germany.

- 260) May 2008, Invited Speaker “Pre-Hospital Disaster” and “Blast Injuries-Pathophysiology”, Disaster Management and Emergency Preparedness Course/Committee on Trauma of the American College of Surgeons, Delaware Committee on Trauma/ACS, Dover Delaware.
- 261) August 2008, Grand Rounds “Disaster Planning”, Tufts University Department of Orthopaedics, Boston, MA
- 262) August 2008, Invited Speaker “Reconstruction and cephalomedullary nailing of the femur”, Surgitech, Waltham, MA
- 263) September 2008, Invited Speaker “Fundamentals of hip fracture management”, Stryker Corp, Mahwah, NJ
- 264) September 2008, Invited Faculty, “Femur fractures”, Stryker Trauma Case Controversy Conference, New York, NY
- 265) October 2008, Invited Faculty, “Introduction and Scenario I”, “Disaster Planning and HVA”, Pre-Hospital Considerations”, Disaster Management and Emergency Preparedness Course presented by the OTA and The ACS/COT, Denver, CO
- 266) December 2008, Invited Speaker, “Some Comments on Fixing Proximal Femur (and Some Shaft) Fractures”, Delaware Valley Orthopaedic Surgery Group, Philadelphia, PA
- 267) January 2009, Invited Speaker, “Introduction: Disaster Preparedness: National efforts”, AAOS/OTA/SOMOS EWIDP Symposium, Washington, DC.
- 268) February 2009 Invited Speaker, “Introduction and Overview of Disasters”, Essentials of Disaster Management: The role of the orthopaedic surgeon, Instructional Course Lecture, AAOS Annual Meeting, Las Vegas, NV
- 269) March 2009 Invited Speaker, “Blast Physiology, Damage Control and Cytokine Mediation”, Center for Reconstructive and Regenerative Medicine, Brown University, Providence, RI
- 270) March 2009 Invited Speaker, “Knee Pain: Part I”, “Knee Pain: Part II”, “Splinting Techniques”, A PA’s Guide to the Musculoskeletal Galaxy, 1<sup>st</sup> combined meeting of the AAPA/AAOS, Ft. Worth, Texas.
- 271) June 2009 Invited Speaker “Tips Tricks and Pearls for Nailing of Proximal Femur Fractures”, Orthopaedic Surgical Group, Nashua, NH
- 272) August 2009 Invited Speaker “Locked Plating of Supracondylar Femur Fractures”, Advanced Nailing and Percutaneous/MIPO Techniques, Aurora, CO
- 273) September 2009 Invited Speaker “Pelvic Ring Injuries”, Department of Emergency Medicine, Alpert Medical School at Brown University, Providence, RI.
- 274) September 2009 Invited Speaker “Advanced Techniques for Femoral Fracture Management”, Surgitech Center, Waltham, MA.
- 275) September 2009 Invited Speaker/Cadaver Lab Demonstration Gamma Nail System, Putnam Hospital Center Department of Orthopaedic Surgery, Carmel, NY.
- 276) September 2009 Invited Speaker/Faculty “Proximal Humerus Fractures, Trauma Case Controversies, Stryker Orthopaedics, New York City, NY
- 277) October 2009 Lab Faculty IM Nail Proximal Femur Lab, Orthopaedic Trauma Association 25<sup>th</sup> Annual Meeting, San Diego, CA
- 278) October 2009 Grand Rounds Speaker, “Landstuhl Regional Medical Center: Distinguished Visiting Scholars Program”, Brown University Dept Of Orthopaedic Surgery, Providence, RI
- 279) October 2009 Visiting Professor, “Disaster Response: organizational overview” Wharton School of Business Organizational Dynamics Program, University of Pennsylvania, Philadelphia, PA.

## **GRANTS**

- 1) **\$55,000/Year** 1988-2005 Synthes (USA): Recurrent grant as a salary stipend for the AO Fellowship in Orthopaedic Trauma at Cooper Hospital/University Medical Center (1988-1996), University of Pennsylvania (1997-2002) and Temple University (2002-2005).
- 2) **\$60,000** 1997 Howmedica Corp: Unrestricted educational grant in support of the development of a trauma registry within the Department of Orthopaedic Surgery at the University of Pennsylvania.
- 3) **\$15,848** 1999 Howmedica Corp: Investigation of the use of soft tissue anchors for the re-attachment of the external rotator of the hip. Principal Investigator
- 4) **\$120,000** 1999 Richards, Smith and Nephew Corp: Three-year unrestricted educational grant for Orthopaedic Trauma Education (\$60,000 per year for 3 years)
- 5) **\$250,000** 1999 Orthopaedic Trauma Association: Grant for Multi-Center Open Tibia Fracture Study. Co-Investigator.
- 6) **\$19,000** 2002 Orthopaedic Research and Education Foundation: with Paul Tornetta, MD and Stephen Sims, MD to fund packaging and distribution of the Orthopaedic Trauma Association Trauma and Fracture Care Curriculum Lectures CD-ROM to all US and some European Orthopaedic residency programs.
- 7) **\$20,000** 2002 Orthopaedic Trauma Association: Grant - Basic Science Research. "Enhancement of Fracture Healing in a Closed Head Fracture Model", Co-Investigator.
- 8) **\$30,000** 2003 Stryker Biotech Company: Unrestricted research grant to develop a multi-institutional clinical trial to evaluate the efficacy, union and complication rates of OP-1 (rhBMP-7) combined with either autograft or cancellous chips in the treatment of recalcitrant long bone unions. (Co-Principal Investigator)
- 9) **\$600,000** 2005-2009 Anonymous donor: A pledged, unrestricted educational grant to foster and promote research, education and clinical excellence in orthopaedic trauma. The first \$100,000 was received in September, 2005 and the donor has pledged \$125,000 per year for four additional years through the Rhode Island Hospital Foundation. \$475,000 received to date.
- 10) **\$20,000** 2006 Foundation for Orthopaedic Trauma grant for the study of the use of MRA evaluation of vascular injury in knee dislocations
- 11) **\$5000** 2006 AO North America research support for study of Syndesmotic stabilization of Weber C ankle injuries
- 12) **\$20,000** 2007 OTC/AIOD research grant for the study of Syndesmotic stabilization of Weber C ankle injuries
- 13) **\$22,500** 2007 Foundation for Orthopaedic Trauma grant for the study of Near-Infra Red Spectrometry Diagnosis

### **ADDITIONAL RESEARCH**

1. Concentration of Antibiotic fluid of fasciotomy wounds covered with tobramycin beads and wound VACS. IRB approval #4002-06 9 patients entered.

**Revised October 2009**