

**DUKE UNIVERSITY MEDICAL CENTER**

***CURRICULUM VITAE***

for  
**Permanent Record**  
and the  
**Appointments, Promotions and Tenure Committee**

**Date Prepared:** June 24, 2009

**Robert D. Zura M.D.**

**Department of Surgery**

**Assistant Professor**

**Date and rank of first Duke faculty appointment: August 1, 2004 - Assistant Professor**

**Medical licensure: North Carolina License #200400787**

**Date of License (Month/Day/Year): March 26, 2008**

**Specialty certification:**

American Board of Orthopaedic Surgery July 11, 2003.

**Date of birth:** March 26, 1968

**Place:** Washington D.C., USA

**Citizen of:** USA

<b>Education:</b>	<b><u>Institution</u></b>	<b><u>Date (Year)</u></b>	<b><u>Degree</u></b>
<b>High School:</b>	Gilman	1986	
<b>College:</b>	University of Virginia	1990	B.A.
<b>Medical School:</b>	Johns Hopkins	1994	M.D.

**Scholarly societies:**

AOA 1997

Alpha Omega Alpha - Pre-medical Honor Society

**Professional training and academic career:**

University of Virginia	Intern In Surgery	1994-1995
University of Virginia	Resident in Orthopaedics	1995-1999
University of Virginia	Chief Resident	1999-2000
Carolinas Medical Center	Trauma Fellow	2000-2001
Medical College of Georgia	Assistant Professor	2001-2003
Mary Washington Hospital	Private Practice	2003-2004
Duke University	Assistant Professor	2004-present

### 1. Publications:

Devlin PM, Hwang JC-S, Winchell CJ, Day SG, **Zura RD**, and Edlich RF: Automated Hydrotherapy Pool Water Treatment System. *J Burn Care & Rehab* 10:74-78, 1989.

**Zura RD**, Groschel DHM, Becker DG, Hwang JC-S, and Edlich RF: Is There a Need for State Health Department Sanitary Codes for Public Hydrotherapy and Swimming Pools? *J Burn Care & Rehab* 11:146-150, 1990.

Tanner RW, **Zura RD**, Chen VT, Gregory PC, Becker DG, Thacker JG, and Edlich RF: A System for Adaptive Transportation. *J Burn Care & Rehab* 11:543-551, 1990.

Redd JL, **Zura RD**, Tanner AW, Walk EE, WU MM, and Edlich RF: Personal Emergency Response Systems. *J Burn Care & Rehab* 13:453-459, 1992.

Ruhl CM, Urbaniac JH, Foresman PA, Cox MJ, Rodeheaver GT, **Zura RD**, and Edlich RF: A New Hazard of Cornstarch, an Absorbable Dusting Powder. *J Emerg Med* 12:11-14, 1994.

Cox MJ, Bromberg WJ, **Zura RD**, Foresman PA, Morgan RG, and Edlich RF: New Advances in Electronic Devices for Hole Detection. *J Appl Biomat* 5:257-264, 1994.

Kahler DM and **Zura RD**: Evaluation of a Computer Integrated Surgical Technique for Percutaneous Fixation of Transverse Acetabular Fractures. *Lecture Notes Comput. Sci.*, 1205: 565-572, 1997.

**Zura RD**, Minasi JS, and Kahler DM: Tumor-induced Osteomalacia and Symptomatic Looser Zones Secondary to Mesenchymal Chondrosarcoma. *Journal of Surgical Oncology*. 71(1):58-62, May 1999.

**Zura RD** and Kahler DM: A Transverse Acetabular Nonunion Treated with Computer-Assisted Percutaneous Internal Fixation a Case Report. *JBJS*, 82-A: 219-224, 2000.

Miller CW and **Zura RD**: Closed Reduction of a Dislocation of a Constrained Acetabular Component. *Journal of Arthroplasty* 16(4): 504-5, 2001.

Chang JK, Gill SS, **Zura RD**, Krause WR, and Wang GJ: Comparative Strength of Three Methods of Fixation of Transverse Acetabular Fractures. *CORR* 392: 433-41, Nov. 2001.

**Zura RD** and Bosse MJ: Current Management of Gunshot Wounds to the Hip and Pelvis. *CORR* 408:110-114, March 2003.

Edwards BT, Leach PB, **Zura RD**, Corpe RS, and Young TR: Presentation of Gamma-Irradiated in Air Polyethylene Wear in the Form of a Synovial Cyst. *Journal of Long-Term Effects of Medical Implants* 13(5): 413-7, 2003.

Edwards BT, **Zura RD**, Bertrand S, Leonard S and Pellett J: Treatment of Neuromuscular Scoliosis with Posterior Spinal Fusion Using the Galveston Technique: A Retrospective Review and Results of 62 Patients. *Journal of Long-Term Effects of Medical Implants* 13(6): 437-44, 2003.

Peindl RD, **Zura RD**, Vincent AS, Coley ER, Bosse MJ, and Sims SH: Unstable Proximal Extra-Articular Tibia Fractures: A Biomechanical Evaluation of Four Methods of Fixation. *JOT* 18(8):540-545, September 2004.

Richard F. Edlich, MD, PhD, Mary Anne Hudson, RN, BSN, Ralph M. Buschbacher, MD, Kathyne L. Winters, L. D. Britt, MD, MPH, FACS, Mary Jude Cox, MD, Daniel G. Becker, MD, FACS, Joseph K. McLaughlin, Ph.D., K. Dean Gubler, DO, MPH, Thomas S. P. Zomerschoe, RPT, Mary F. Latimer, CPMSC, CPCS, Robert D. **Zura, MD**, Nona S. Paulsen, CMA, William B. Long III, MD, Barbara M. Brodie, PhD, RN, Susan Berenson RN, BSN, MSN, Scott E. Langenburg, MD, FACS, Lise Borel, DMD, Danielle B. Jenson, Dillon E. Chang, MD, W. Randolph Chitwood, Jr., MD, Thomas H. Roberts, Esq., Mara J. Martin, BS, RN, Anna Miller, RN, BSN, Charles L. Werner, Peyton T. Taylor, Jr., M.D., Jeanette Lancaster, PhD, NR, FAAN, Marina S. Kurian, MD, Jerry L. Falwell, Jr: Devastating Injuries in Healthcare Workers: Description of the Crisis and Legislative Solution to the Epidemic of Back Injury from Patient Lifting. *Journal of Long-Term Effects of Medical Implants* 15(2): 225-242, 2005.

Simovitch RW, Radkowski CA, **Zura RD**: **Intramedullary** Fixation of Fibular Fractures with Flexible Titanium Elastic Nails: Surgical Technique and a Case Report, *Journal of Long-Term Effects of Medical Implants*, Vol 16: 175-178, 2006.

Radkowski CA, Simovitch RW, **Zura RD**: Manufacturing Imperfection of a Locking Plate Screw Hole: A Case Report, *Journal of Long-Term Effects of Medical Implants*, Vol 16:179-184, 2006.

**Zura RD**, Browne JA: Current Concepts In Locked Plating, *Journal of Surgical Orthopaedic Advances*, Vol 15(3): 173-176, 2006.

**Zura RD**, Sasser B, Sabesan V, Pietrobon R, Tucker MC, Olson SA: A Survey of Orthopaedic Traumatologists Concerning the Use of Bone Growth Stimulators, *Journal of Surgical Orthopaedic Advances*, Vol 16(1): 1-4, 2007.

**Zura RD**, Browne JA, Black MD, Olson SA. “Current management of high-energy tibial plateau fractures”, *Current Orthopaedics*, Vol 21 (3): 229-235, 2007.

Hembree WC, Ward BD, Furman BD, **Zura RD**, Nichols LA, Guilak F, Olson SA: “Viability and apoptosis of human chondrocytes in osteochondral fragments following joint trauma”, *Journal of Bone and Joint Surgery – BR* Vol 89 (10):1388-95, 2007.

**Zura RD**, Adams SB, Mata BA, Pietrobon R, Olson SA: “Does knee position at the time of tourniquet inflation affect knee range of motion?” *Journal of Surgical Orthopaedic Advances*, Vol 16 (4): 171-173, 2007.

Marchant MH, **Zura RD**, Urbaniak JR, Aldridge III JM: “Hip incision planning for free vascularized fibular grafting of the proximal femur: A handy tip”, *Journal of Surgical Orthopaedic Advances*, Vol 16 (4): 204-206, 2007.

Brad Petrisor, Kyle Jeray, Emil Schemitsch, Beate Hanson, Sheila Sprague, David Sanders and Mohit Bhandari for the FLOW Investigators: “Fluid lavage in patients with open fracture wounds (FLOW): an international survey of 984 surgeons” , *BMC Musculoskeletal Disorders* 9:7, 2008. (Acknowledged as investigator in pilot study)

Adams SB Jr., Radkowski CA, **Zura RD**, Moorman CT III. Complete quadriceps tendon rupture with concomitant tears of the anterior cruciate ligament and lateral meniscus. *Orthopaedics*. 2008;31(1):88.

Karanicolas PJ, Bhandari M, Walter SD, Heels-Ansdell D, Guyatt GH; 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. *J Clin Epidemiol*. 2009 Feb;62(2):214-223.e1. Epub 2008 Sep 7. Acknowledged as collaborator.

Viol A, Pradka SP, Baumeister SP, Wang D, Moyer KE, **Zura RD**, Olson SA, Zenn MR, Levin SL, Erdmann D. “Soft-tissue defects and exposed hardware: a review of indications for soft-tissue reconstruction and hardware preservation.” *Plast Reconstr Surg*. 123(4):1256-63, 2009.

Cannada LK, Viehe T, Cates CA, Norris RJ, **Zura RD**, Dedmond B, Obremskey W, Bosse M, and the Southeastern Fracture Consortium. “A Retrospective review of high-energy femoral neck-shaft fractures.” *J Orthop Trauma*, Vol 23, 254-260, 2009.

Stabler TV, Byers SS, **Zura RD**, Kraus VB. “Amino acid racemization reveals differential protein turnover in osteoarthritic articular and meniscal cartilages.” *Arthritis Res Ther*. 2009 Mar 6;11(2):R34. [Epub ahead of print]

Richard F. Edlich MD, PhD, William B. Long III MD, Dean Gubler DO, MPH, George T. Rodeheaver PhD, John G. Thacker PhD, Lise Borel DMD, Margot E. Chase, Catherine L. Cross, Allyson L. Fisher, Kant Y. Lin MD, Mary J. Cox MD, **Robert D. Zura MD**: “Citizen's Petition to Food and Drug Administration to ban cornstarch powder on medical gloves: Maltese cross birefringence.” *American Journal of Emergency Medicine* 27, 227–235, 2009.

Catterall JB, Barr D, Bolognesi M, **Zura RD**, Kraus VB: “Post-translational aging of proteins in osteoarthritic cartilage and synovial fluid as measured by isomerized aspartate.” *Arthritis Res Ther* 11(2):R55. Epub 2009 Apr 16.

Edlich RF, Long WB 3<sup>rd</sup>, Gubler DK, Rodeheaver GT, Thacker JG, Borel L, Chase ME, Fisher AL, Manson SS, Lin KY, Cox MJ, **Zura RD**: “Dangers of Cornstarch Powder on Medical Gloves – Seeking a Solution.” *Annals of Plastic Surgery* 63, 1, July 2009.

**1A. In Press:**

“Recurrent Compartment Syndrome: A Review of the Literature and Case Reports.”

Edlich RF, Long WB 3<sup>rd</sup>, Gubler DK, Rodeheaver GT, Thacker JG, Borel L, Chase ME, Fisher AL, Manson SS, Lin KY, Cox MJ, **Zura RD**: “Dangers of Cornstarch Powder on Medical Gloves – Seeking a Solution.” *Annals of Plastic Surgery* 63, 1, July 2009.

**2. Non-refereed publications:**

**3. Chapters in books:**

2007                      Monograph Series 35, Acetabular and Pelvic Fractures, Olson, S.A. and Reilly M (eds), AAOS, Chicago  
Chapter 2: Treatment Considerations for Surgical and Nonsurgical Management of Pelvic Ring Injuries Olson, SA, Reilly, MC, **Zura, RD**

**4. Books:**

**5. Non-authored publications:**

**6. Other: a. Published scientific reviews (for mass distribution)**

**b. Selected abstracts**

**Zura RD**, Kahler DM: Operative Treatment of Calcaneus Fractures Through an Extended Lateral Approach Using Skeletal Traction, *VMQ* Vol 123: No 3:197, 1996.

Abel MF, **Zura RD**, and Kahler DM: Computer Assisted Pelvic Osteotomy for Acetabular Dysplasia Pediatric Orthopaedic Society of North America 1999.

Vincent AB, Sims SH, Kellam JF, Bosse MJ, Peindl RD, and **Zura RD**: Unstable Proximal Tibia Fractures: A Biomechanical Evaluation of Three Fixation Methods and Initial Clinical Results. Combined Meeting of the New Zealand and Australian Orthopaedic Associations. Queenstown, New Zealand. *JBJS-B* Vol. 84 Supplement 3, October 2001.

**c. Editorials, position, and background papers**

**Consultant appointments:** None

**Professional awards and special recognitions:**

Graduated with Distinction: University of Virginia, 1990

Echols Scholar: University of Virginia, 1986-1990

Jefferson Scholar Finalist: University of Virginia, 1986

Lawn Resident: University of Virginia, 1989-1990

Senate Joint Resolution 205  
Sanitary Code for Public Swimming Pools  
Approved, 1995

The Gary G. Wenzelberg Memorial Lecture Award  
Outstanding paper on Diagnostic Imaging of the Pelvis

Surgery of the Pelvis and Acetabulum Meeting, 1996

Outstanding Clinical Paper  
First Annual Orthopaedic Alumni Meeting  
University of Virginia, 1996

Residents Award - Best paper  
Virginia Orthopaedic Society Meeting  
Williamsburg, Va., 1997

Highlight paper from Orthopaedic Trauma Association-Phoenix 2006  
The Effect of Timing of Definitive Fixation for Tibial Plateau  
Fractures with Associated Compartment Syndrome on Infection Rates  
**Robert D. Zura, MD**, Vani Sabesan MD, Lois Ann Nichols MD, Barnaby Dedmond MD,  
Patrick Leach MD, Kyle Jeray MD, William Obremsky MD, Brian Mata,  
Ricardo Pietrobon, MD, PhD, MBA, Steven A Olson, MD  
Presented at: Orthopaedic Trauma Association – Specialty Day  
AAOS San Diego, CA. February 2007.

Presidential Guest Lecturer New Jersey Orthopaedic Society  
Great Exuma, Bahamas. March 2007

Invited Moderator – Orthopaedic Trauma Association – Femur Section  
Denver, CO. October, 2008.

Declared “Visitante Distinguido” (Distinguished Visitor) by Sr. Hugo Enrique Landivar Zambrana –  
Presidente Honorable Concejo Municipal De Santa Cruz De La Sierra. Santa Cruz, Bolivia. – 2009.

**Organizations and participation: (Offices held, committee assignments, etc.)**

AO ASIF Orthopaedic Faculty - 2002

Orthopaedic Trauma Association  
Active Member – 2005

American Academy of Orthopaedic Surgeons  
(Fellow 2006) 2005  
Member Trauma Evaluations Committee 2006-2012

NC Orthopaedic Association – 2005  
Program Director - 2009

NC Medical Society – 2005

Eastern Orthopaedic Association – 2005

Southeastern Fracture Consortium – 2005  
Member Research Committee

Piedmont Orthopaedic Society – 2006

Southern Orthopaedic Association - 2008

Kuntscher Society - 2009

Journal of Long-Term Effects of Medical Implants - Editorial Board

SouthEastern Fracture Symposium - Faculty Member

Journal of Orthopaedic Trauma - Consultant Reviewer

Injury – Consultant Reviewer

**Teaching responsibilities including continuing education:**

Director of the Orthopaedic lecture series for second year Duke medical students.

**Operative Treatment of Calcaneus Fractures Through an Extended Lateral Approach Using Skeletal Traction.** Virginia Orthopaedic Society – Richmond, VA, 1996.

**Evaluation of a Computer Integrated Surgical Technique for Percutaneous Fixation of Transverse Acetabular Fractures.** University of Virginia Alumni Meeting – Charlottesville, VA, 1996.

**Evaluation of a Computer Integrated Surgical Technique for Percutaneous Fixation of Transverse Acetabular Fractures.** Virginia Orthopaedic Society – Williamsburg, VA, 1997.

**Optimizing Registration Accuracy in Computer Assisted Percutaneous Pelvic Surgery.** CAOS'98, Pittsburgh 1998.

**Computer Guided Placement of Iliosacral Screws Compared to Standard Fluoroscopic Technique.** Kahler DM (presenter), Zura RD, Mallik K. CAOS '00, Davos, Switzerland, 2000.

**Unstable Proximal Extra-articular Tibia Fractures: A Biomechanical Evaluation of Three Methods of Fixation.** Poster: Orthopaedic Trauma Association, San Diego 2001.

**Orthopaedic Trauma: a Review of Current Treatment Options:** lecture given at Orthopaedic Nursing Conference, Savannah, GA, 2001.

**Tibial External Fixator Lab:** Nurses Conference at Southeastern Fracture Conference Greensboro, January 2002.

**Unstable Proximal Extra-articular Tibia Fractures: A Biomechanical Evaluation of Three Methods of Fixation.** Poster: Orthopaedic Research Society, Dallas, TX, 2002.

**Orthopaedic Trauma.** Medical College of Georgia Perioperative Nurses Course, September 2002.

**Trochanteric Antegrade Femoral Nailing: Our Short Term Experience.** Edwards B (presenter), Lewis R, Tucker M, Zura R, Miller J. Georgia Orthopaedics – Sea Island, GA, October 2002.

**Minimally Invasive Fracture Surgery.** Brooks K (presenter), Tucker M, Zura RD. Georgia Orthopaedics – Sea Island, GA, October 2002.

**Orthopaedic Trauma.** Medical College of Georgia Perioperative Nurses Course, February 2003.

**Orthopaedic Fractures.** Medical College of Georgia OB/GYN lecture series. March 2003.

**Trochanteric Antegrade Femoral Nailing: Our Short Term Experience.** Edwards B, Lewis R (presenter), Tucker M, Zura R, Miller J. Florida Orthopaedic Society – Scientific Annual Meeting – Ponte Vedra, FL, May 2003.

**Locked Plating Lab:** Instructor: Orthopaedic Trauma Association, Ft. Lauderdale, FL, October, 2004.

**Dynamic Compression Screw for Distal Femoral Fractures Lab:** Instructor: Orthopaedic Trauma Association, Ft. Lauderdale, FL, October, 2004.

**Attitudes of OTA Members Concerning the Use of Physical Forces to Aid in Fracture Healing:** Georgia Orthopaedic Society – Lake Oconee, GA, October, 2004.

**Diaphyseal Humeral Fractures and Nonunions:** Lecture given at Southeastern Fracture Symposium Greensboro, NC, January 2005.

**Basic Fracture Care:** Lecture given at Musculoskeletal Assessment for Primary Care Providers - Durham, NC, April 2005.

**Plate Biomechanics,** Table Instructor: Synthes Perioperative Nursing Course, Myrtle Beach, SC, June 2005.

**Femur Fractures:** Smith & Nephew Perioperative Nurses Course, Myrtle Beach, SC, August 2005.

**Locking Plates:** Smith & Nephew Perioperative Nurses Course, Myrtle Beach, SC, August 2005.

**Basic Fractures:** Orthopaedic Trauma Class, Duke University Medical Center, Durham, NC, September 2005.

**Minimally Invasive Plate Osteosynthesis:** Synthes Advanced Technology Forum, Durham, NC, September 2005.

**Pilon Fractures:** Synthes Advanced Technology Forum, Durham, NC, September 2005.

**Extra-articular Proximal Tibia Fractures:** Synthes Advanced Technology Forum, Durham, NC, September 2005.

**Lower Extremity Amputations: When, Where, and How?:** OTA Residents Basic Fracture Course, Ottawa, Canada, October 2005.

**Table Instructor, Spanning External Fixator Lab:** OTA Residents Basic Fracture Course, Ottawa, Canada, October 2005.

**Ankle Fractures: Basics and What's New.** Southeastern Fracture Symposium – Greensboro, NC, January 2006.

**AO ASIF Basic Principles of Operative Fracture Management Course,** Table Instructor, Philadelphia, PA, January 2006.

**Orthopaedic Trauma – 16<sup>th</sup> Annual Duke Trauma Conference –** Durham, NC, March 2006.

**Tibial Non-Unions** Duke/Synthes Advanced Trauma Symposium – Duham, NC, September 2006.

**Table Instructor, Spanning External Fixator Lab:** OTA Residents Basic Fracture Course, Phoenix, AZ, October 2006

**Table Instructor, Tension Band / Olecranon Fractures:** OTA Residents Basic Fracture Course, Phoenix, AZ, October 2006.

**Lower Extremity Amputations: When, Where, and How?:** OTA Residents Basic Fracture Course, Phoenix, AZ, October 2006.

**Trochanteric Entry Femoral Nailing – Debate.** AO Advanced Course, Davos, Switzerland. December, 2006.

**Table Instructor:** AO Advanced Course, Davos, Switzerland. December, 2006.

**Discussion Group Leader – Periarticular Fractures:** AO Advanced Course, Davos, Switzerland. December, 2006.

**The Effect of Knee Position at the time of Tourniquet Inflation on Operative Knee Range-of-Motion** Robert D. Zura MD, Samuel B. Adams MD, Ricardo Pietrobon MD PhD MBA, Brian A. Mata BS (Presenter), Michael P. Bolognesi MD, Mark Easley MD, Steven A. Olson MD – Podium Presentation: NC Orthopaedic Society - Asheville, NC, October 2006.

**The Effect of Timing of Definitive Fixation for Tibial Plateau Fractures with Associated Compartment Syndrome on Infection Rates** Robert D Zura MD (Presenter), Vani Sabesan MD, Lois Ann Nichols MD, Barnaby Dedmond MD, Patrick Leach MD, Kyle Jeray MD, William Obremskey MD, Brian Mata, Ricardo Pietrobon, MD, PhD, MBA, Steven A Olson MD Podium Presentation: Orthopaedic Trauma Association Annual Meeting – Phoenix, AZ, October 2006.

**Computer Navigation versus Fluoroscopic Navigation for Closed Reduction in a Tibial Plateau Fracture Model.**  
Poster: Orthopaedic Trauma Association Annual Meeting – Phoenix, AZ, October 2006.

**Comparison of Periarticular Locked Plates and Less Invasive Stabilization System Plating for Fixation of Proximal, Extra-Articular, and Bicondylar Tibial Plateau Fractures.** Poster: Orthopaedic Trauma Association Annual Meeting – Phoenix, AZ, October 2006.

**Comparison of Periarticular Locked Plates and Less Invasive Stabilization System Plating for Fixation of Proximal, Extra-Articular, and Bicondylar Tibial Plateau Fractures.** Poster: Georgia Orthopaedic Society, Sea Island, GA, October 2006.

**The Effect of Timing of Definitive Fixation for Tibial Plateau Fractures with Associated Compartment Syndrome on Infection Rates** Poster: Georgia Orthopaedic Society, Sea Island, GA, October 2006.

**The Effect of Knee Position at the time of Torniquet Inflation on Operative Knee Range-of-Motion** Podium Presentation: Eastern Orthopaedic Association Boca Raton, FL, October 2006.

**Comparison of Periarticular Locked Plates and Less Invasive Stabilization System Plating for Fixation of Proximal, Extra-Articular, and Bicondylar Tibial Plateau Fractures.** Poster: Eastern Orthopaedic Association Boca Raton, FL, October 2006.

**The Effect of Timing of Definitive Fixation for Tibial Plateau Fractures with Associated Compartment Syndrome on Infection Rates** Poster: Eastern Orthopaedic Association Boca Raton, FL, October 2006.

**The Effect of Timing of Definitive Fixation for Tibial Plateau Fractures with Associated Compartment Syndrome on Infection Rates** Podium Presentation American Academy of Orthopaedic Surgeons. San Diego, CA, Feb. 16, 2007.

**The Effect of Timing of Definitive Fixation for Tibial Plateau Fractures with Associated Compartment Syndrome on Infection** Podium Presentation Orthopaedic Trauma Association – Specialty Day. San Diego, CA, Feb. 17, 2007.

**Comparison of Periarticular Locked Plates and Less Invasive Stabilization System Plating for Fixation of Proximal, Extra-Articular, and Bicondylar Tibial Plateau Fractures.** Poster: AAOS San Diego, CA, February 2007.

**Computer Navigation versus Fluoroscopic Navigation for Closed Reduction in a Tibial Plateau Fracture Model.** Poster: AAOS San Diego, CA, February 2007.

**Open Fractures – Review of Current Treatment:** New Jersey Orthopaedic Society Current Concepts in Orthopaedics. Great Exuma, Bahamas March 2007.

**Femoral Nailing – From the Hip or the Knee?:** : New Jersey Orthopaedic Society Current Concepts in Orthopaedics. Great Exuma, Bahamas March 2007.

**The Reamer Irrigator Aspirator – Introduction of New Technology:** : New Jersey Orthopaedic Society Current Concepts in Orthopaedics. Great Exuma, Bahamas March 2007.

**Review of Basic Principles of Plating and Update on Locked Plating:** : New Jersey Orthopaedic Society Current Concepts in Orthopaedics. Great Exuma, Bahamas March 2007.

**Humerous Shaft Acute Fixation and Nonunions:** Surgical Approaches for Internal Fixation (SAIF) Advanced Course Memphis, TN September 21-22, 2007

**Humerus: Anterolateral and Posterior Approach Demo:** Surgical Approaches for Internal Fixation (SAIF) Advanced Course, Memphis, TN September 21-22, 2007

**Table Instructor:** Surgical Approaches for Internal Fixation (SAIF) Advanced Course Memphis, TN. September 21 – 22, 2007

**Subtrochanteric Femur Fractures:** International Trauma Symposia, Aventura, FL. September, 2007

**Surgical Approches to the Foot and Ankle:** International Trauma Symposia, Aventura, FL. September, 2007

**Lower Extremity Amputations: When, Where, and How?:** OTA Residents Basic Fracture Course, Boston, MA, October, 2007

**Antegrade Femoral Nailing: Trochanteric Entry Site:** Conferencista Cumbre de Expertos en Enclavijado Endomedular (Expert Intramedullary Nail Conference) Asuncion, Paraguay - November 2007.

**Management of Open Fractures and Intramedullary Nailing:** Conferencista Cumbre de Expertos en Enclavijado Endomedular (Expert Intramedullary Nail Conference) Asuncion, Paraguay - November 2007.

**Biomechanics & biology of relative stability:** Conferencista Cumbre de Expertos en Enclavijado Endomedular (Expert Intramedullary Nail Conference) Asuncion, Paraguay - November 2007.

**Subtrochanteric Femur Fractures:** Conferencista Cumbre de Expertos en Enclavijado Endomedular (Expert Intramedullary Nail Conference) Asuncion, Paraguay - November 2007.

**Pilon Fractures:** Southeastern Fracture Conference, Charleston, SC. January 18, 2008.

**Open Tibia Fractures:** Orthopaedic Trauma: Concepts to Controversies. Snowmass, Colorado – February 2008.

**Humeral Shaft Fractures:** Orthopaedic Trauma: Concepts to Controversies. Snowmass, Colorado – February 2008.

**Distal Tibia Fractures:** Grand Rounds: University of Louisville, Kentucky – February 26, 2008.

**Extra-articular Proximal and Distal Tibia Fractures:** Grand Rounds: University of Tennessee – Chattanooga, TN – April 21, 2008.

**Femoral Nailing: Choosing the Right Starting Point and Technical Tips:** Napa Valley Orthopaedic Trauma Symposium – September 18, 2008.

**Open Tibia Fractures: Current Treatment Protocols:** Napa Valley Orthopaedic Trauma Symposium – September 20, 2008.

**Lower Extremity Amputations: When, Where, and How?** OTA Residents Basic Fracture Course, Denver, CO. October 2008.

**Kocher-Lagenbeck with Digastric Osteotomy/Surgical Anterior Hip Dislocation & Pilon Anterolateral and Perc Medial:** Surgical Approaches for Internal Fixation (SAIF) Memphis, TN. November 20-21, 2008

**Table Instructor: Surgical Approches for Internal Fixation** (SAIF) Memphis, TN. November 20-21, 2008

**Damage Control Orthopaedics:** 19<sup>th</sup> Annual Duke Trauma Conference. Durham, NC March, 2009.

**Bone Morphogenic Proteins for Fracture Healing:** Conferencista Cumbre de Expertos en Enclavijado Endomedular (Expert Intramedullary Nail Conference) Kuntscher International Society, Sociedad de Ortopedia y Traumatologia Filial. Santa Cruz de la Sierra, Bolivia. March 2009.

**Subtrochanteric Femur Fractures:** Conferencista Cumbre de Expertos en Enclavijado Endomedular (Expert Intramedullary Nail Conference) Kuntscher International Society, Sociedad de Ortopedia y Traumatologia Filial. Santa Cruz de la Sierra, Bolivia. March 2009.

**Intramedullary Infections and Treatment Options:** Conferencista Cumbre de Expertos en Enclavijado Endomedular (Expert Intramedullary Nail Conference) Kuntscher International Society, Sociedad de Ortopedia y Traumatologia Filial. Santa Cruz de la Sierra, Bolivia. March 2009.

**Reamed Vs. Unreamed Nails for Closed Tibial Fractures:** Conferencista Cumbre de Expertos en Enclavijado Endomedular (Expert Intramedullary Nail Conference) Kuntscher International Society, Sociedad de Ortopedia y Traumatologia Filial. Santa Cruz de la Sierra, Bolivia. March 2009.

**Biomechanics of Locked Plating:** Science Summit, San Francisco, California. May 2009

**Case Studies – Nonunion:** Science Summit, San Francisco, California. May, 2009

**Treating Nonunion: The Traumatologist's Perspective:** Eastern Orthopaedic Association, Nassua, Bahamas. June, 2009

**Moderator:** Eastern Orthopaedic Association, Nassua, Bahamas. June, 2009

**Areas of research interests (basic and applied) - list:**

Outcomes of Fracture Management  
 Bone Stimulators  
 Biomechanics of Orthopaedic fixation

**External support (past and present) - gifts, grants, and contracts:**

	<u>PI</u>	<u>%Effort</u>	<u>Purpose</u>	<u>Amount</u>	<u>Duration</u>
a) <b>Past:</b>	Beau Sasser	1	Stimulator Survey	\$1,250.00	1-2 years
b) <b>Present:</b>	Zura		<b>The Effect of Knee Position at the time of Tourniquet Inflation on Operative Knee Range-of-Motion - Zimmer</b>	\$10,000	
	Zura		<b>Comparison of Periarticular Locked Plates and Less Invasive Stabilization System Plating for Fixation of Proximal, Extra-Articular, and Bicondylar Tibial Plateau Fractures - Synthes</b>	\$12,000	
	Zura		IRB: Pro00010581 <b>TRial to evaluate UltraSound in the Treatment of tibial Fractures TRUST)</b> Sponsor: Canadian Institutes of Health	\$49,274	9/1/2008 - 8/31/2010
	Zura		eIRB: Pro00007202 <b>A Randomized, Placebo-Controlled Study to Evaluate the Efficacy, Safety and Tolerability of CP-533,536 in Subjects with a Closed Fracture of the Tibial Shaft (A3241010)</b> Sponsor: Pfizer	\$154,806	2/1/2008 – 1/31/2013
	Zura		eIRB: Pro00008160 <b>Outcomes after Treatment of Femoral Head Fractures (Retrospective Study)</b> Sponsor: Carolinas Healthcare Systems	\$5,000	9/01/2008 – 08/30/2009
	Zura		eIRB: Pro00012273 <b>STandard Reaming versus Reaming/Irrigating/Aspirating for Intramedullary Nailing of Femoral Shaft Fractures (S.T.A.F.F)</b> Sponsor: Greensville Hospital System		10/1/2008 – 9/30/2011
	Zura		eIRB: Pro00007393 <b>A Multi-Centre Randomized Trial Comparing Sliding Hip Screws and Cancellous Screws on Revision Surgery Rates and Quality of Life in the Treatment of Femoral Neck Fractures (FAITH)</b> Sponsor: Canadian Institutes of Health and Department of Defense.		9/01/08 – 08/31/2012

**a) Pending**

- Zura                    **A Randomized, Double-blind, Placebo Controlled Proof-Of-Concept Study Investigating the Safety and Efficacy of ZT-031 on Hip Fracture Healing in Men and Postmenopausal Women with Intertrochanteric Fracture of the Hip.**  
Sponsor: Zelos
- Zura                    **Flow: Fluid Lavage of Open Wounds: A Multi-Center, Blinded Factual Trial Comparing Alternative Irrigating Solutions and Pressures in Patients With Open Fractures**  
Sponsor: United States Army Institute of Surgical Research (OTRP)

**Clinical activity - type of practice and estimate of time commitment:**

Orthopaedic Trauma 75%

**Participation in academic and administrative activities of the University and Medical Center:**

25%

---

**Signature of Chairman**

---

**Date**

## Personal Information

**Faculty members familiar name:** Bob

**Home address:** 4207 Champaign Drive  
Durham, NC 27707

**Home Phone#:** 919-493-6394

**Marital status:** Married

**Name of spouse:** Marianne Gerard Zura

**Degree:** M.D. - Pediatrics

**Work status:** part time

### Children:

Conor Edwin Zura (April 8, 2000)

Gavin Wallace Zura (October 22, 2002)

Adrienne Price Zura (August 2, 2007)

**E-mail Address:** robert.zura@duke.edu

**Webpage Address:**