

DATE: November 2012

CURRICULUM VITAE

TERRY A. CLYBURN, M.D.

Professor of Orthopaedics, UTHealth- Medical School at Houston
Clinical Associate Professor, Baylor College of Medicine
Board Certified Orthopaedic Surgeon

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Houston, TX 77056
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DATE AND PLACE OF BIRTH: February 1, 1952
Houston, Texas

CITIZENSHIP: United States of America

UNDERGRADUATE EDUCATION: B.S., Biology, 1975
The University of Houston
4800 Calhoun Rd., Houston, TX 77004

GRADUATE EDUCATION: M.D., 1979
The University of Texas Medical Branch
301 University Blvd., Galveston, TX 77555

POSTGRADUATE EDUCATION: Internship 1979-1980
The University of Texas Medical School at Houston
6431 Fannin, Houston, TX 77030
Program - General Surgery
Program Director - Stan Dudrick, M.D.

Orthopaedic Surgery Residency, 1980-1984
The University of Texas Medical School at Houston
Program Director - Taylor K. Smith, M.D.

ACADEMIC APPOINTMENTS: Assistant Professor, 1997-2006
The University of Texas Medical School at Houston

Medical Director of Research, 1997-present

Director, Total Joint Research, 1997-present

Associate Professor, 2006-2007

The University of Texas Medical School at Houston

Associate Clinical Professor, 2007-August, 2010

The University of Texas Medical School at Houston

Baylor College of Medicine, 2007-Present

Associate Clinical Professor

The University of Texas Medical School at Houston,
2010-present

Department of Orthopaedic Surgery

Professor of Orthopaedics and Chief Joint Arthroplasty
Section

**ADMINISTRATIVE
& HOSPITAL**

Memorial Hermann Hospital, 1984-present

Active Staff

Lyndon B. Johnson General Hospital, 1996-2007

Courtesy Staff

Oral Boards Examiner 1997-present

Texas Orthopedic Hospital, 2002

Courtesy Staff

St. Luke's Episcopal Hospital, 2003

Courtesy Staff

Hermann Professional Building Office, 2003-2005

Medical Director

The Methodist Hospital, 2004

Active Staff

Med Center Ambulatory Surgery Center, 2005

Active Staff

Foundation Surgical Hospital, 2005

Active Staff

MEDICAL LICENSE: Texas F3846 (5/26/1979)

BOARD CERTIFIED: Orthopaedic Surgery, 1986; Re-certified 1996, 2006

**PROFESSIONAL
ORGANIZATIONS:**

Local

Harris County Medical Society (Houston, Texas)

Houston Orthopaedic Society - President, 2006

Texas Orthopaedic Society

National

American Academy of Orthopaedics Surgeons
Infections Committee, 2004 to present
National Quality Forum's Steering Committee for
National Voluntary Consensus Standards for the
Reporting of Healthcare-Associated Infection Data,
2006

American Board of Orthopaedic Surgery, 1986;
Re-certified 1996, 2006
Oral Examiner, 2000 to present

Western Orthopaedic Society Board Member,
2003 to present

American Academy of Hip and Knee Surgeons
Member, Board of Directors
Chairman, Industry & Technology Committee

HONORS/AWARDS: Dean's List 1971-1974

Magna Cum Laude Graduate

Institute for Surgical Pain Management (ISPM) 2000
Award for Excellence, first place for paper titled:
"Continuous Femoral Blocks Improve Recovery and
Outcome of Patients Undergoing Total Knee
Replacement

Certificate of Merit with Excellence in Design, in
recognition of the excellence of the Education Exhibit
presented at the 86th Scientific Assembly and Annual
Meeting of the Radiological Society of North America,

November 26-December 1, 2000

Dean's Teaching Excellence Award, UT-Houston Medical School, 2002

Texas Monthly- Elected "Top Doctor" 2006, 2008, 2009, 2010 and 2011.

COMMITTEES:

Medical School

Interviewer, Medical Student Applicants, 1997-2007, 2010-Present

Continuing Medical Education Committee, 1999-2007
2010-Present

Faculty Senate Committee, 2003-2007

Committee for Protection of Human Subjects Committee, Consultant, 2003-2007

Medical Service Research Development Plan Board of Directors At-large Member, 2002-2007

Department of Orthopaedic Surgery

Research Committee, 1994-2007

Orthopaedic Educational Council, 1997-present

Adult Reconstruction Knee Instructional Committee, 2013-2015

DEVELOPMENTS:

Clyburn Dynamic Colle's Fixator, Zimmer, Inc., Patent 1986

Femoral Canal Bone Dry Device, Patent 1998

Clyburn Fracture Reduction Table, Patent 1999

Advanced Colle's Fixator, Patent 1999

Hip Vice Positioning Device- Patented

Antibiotic Microspheres- US Patent pending, foreign patents in affect.

Minimal Invasive Surgery- all in one patella cutter.

Design team; Bridge Hip System (Wright Medical Technology)

Design team; MIS instrumentation total hip and total knee (Biomet).

Medical Advisory Board – iTotal (ConforMIS)

PAST GRANT SUPPORT:

- 1) *Fibrin glue in the reduction of bleeding of bone.* Primary Investigator, Centeon Co., 1/98 – 6/98, \$30,000.
- 2) *Resorbable ceramic bone cements as bone substitute materials: Evaluation using a critical-size defect in a sheep model.*
Co-Investigator, Biomet, Inc., 9/98-12/00, \$157,362
- 3) *Hybrid Metal/Metal Total Hip Arthroplasty* Primary Investigator, Encore Orthopedics, 3/01/99 – 8/01/2001, \$12,000.
- 4) *A randomized, double-blind comparison of the efficacy and safety of hyland G-F 20 and saline in patients with osteoarthritis of the knee.* Primary Investigator, Wyeth-Ayerst, 4/99 – 4/2000, \$60,768
- 5) *A comparison study of two cement injection techniques of the femur in ovine species.* Primary Investigator, Innovative Global Orthopaedic Technology in Texas, 6/99 – 6/99, \$2,000.
- 6) *Thromboprophylaxis with Low Molecular Weight Heparin (Fragmin) vs. Warfarin in Patients Undergoing Primary Total Knee Replacement* Primary Investigator, 5/2001 – 1/2002, Pharmacia, \$79,711.13.
- 7) *“Continuous Femoral Blocks Improve Recovery and Outcome of Patients Undergoing Total Knee Replacement”*
- 8) Institute for Surgical Pain Management (ISPM) 2000 Award for Excellence, Education/Research Grant, August 2000, \$10,000.
- 9) *Flexibility in Administration of Arixtra for Prevention of Symptomatic Venous Thromboembolism in Orthopedic Surgery* Primary Investigator, 2/2003 – 2/2004, \$22,500.

ONGOING RESEARCH INTERESTS:

- 1) Clinical Studies in Evaluation of Total Knee and Hip Replacement, with specific interest in minimal incision techniques and metal on metal articulations.
- 2) Clinical Follow-up Hemophilia Joint Reconstruction.
- 3) In Vivo Evaluation of Controlled Tobramycin. Deliver Via Biodegradable Microspheres, with Drs. Gogola, Ambrose, Clanton,

and Mikos.

- 4) A Biomechanical Analysis of Various Internal Fixation Techniques Including the Lone Star Plate vs. One-third Tubular Plate in a Cadaveric Mechanical Testing System, with Drs. Tucker, Criswell, Buckle, Coupe, Cohn, Clanton, Ambrose and Harrigan.
- 5) The Effects of Fibrin Glue on Blood Loss During Total Hip Arthroplasty in Dogs, with Drs. Ambrose, Harrigan, Gogola, Mancuso, and Cohn.
- 6) Functional Bracing of Bimalleolar Ankle Fractures - Early vs. Delayed Range of Motion, with Drs. Clanton and Ward. A Prospective Comparison of Dynamic vs. Static External Fixation for Colles Fractures: A Clinical Study, with Dr. Richard Beaver.
- 7) A New Cement Injector for Cementation of Femoral Component of Total Hip Arthroplasty, with Drs. Ambrose and Lavarro.
- 8) A New Cement Gun: A Disposable, One-Piece Mixing and Injection System.
- 9) Prospective, Double-Blind Study to Evaluate the Efficacy of Keratin Sulfate, Chondroitin Sulfate and Intraarticular Hyaluronic Acid on Cartilage Healing: A Rabbit Study, with Drs. Clanton, Ambrose, Harrigan, and Gogola.
- 10) Computer-Aided Reconstruction of Malunited Fractures of the Distal Radius, with Drs. Lavarro, Kilagblian, and Ambrose.
- 11) The Kinematics of the Normal Fracture and Post-Dynamic External Fixated Wrists: A Stereophotogrametric Analysis of Helicalaxis, with Drs. Ambrose and Gogola.
- 12) A Prospective Study Utilizing Constrained Acetabulum Component in Problem Cases.
- 13) A Multi-Center Prospective Study of the Bridge Hip System with Richard Jones, M.D.
- 14) Multi-Center Hybrid-Metal/Metal Total Hip Study.
- 15) A Comparison of Two Cement Techniques Using Transesophageal Ultrasound.
- 16) PLGA/PEG Antibiotic Micro spheres: The Use of Vancomycin,

Gentamicin, and Cephazolithin Containing Micro spheres in the Treatment of Osteomyelitis: An In Vitro Study.

17) Comparison of Total Knee Arthroplasty Position and Alignment Using Two Techniques; Standard Open Procedure with Alignment Guides vs. Minimal Incision Using an Infrared Navigation System: A Cadaveric Study.

18) Minimally Invasive Total Knee & Hip Replacement.

PUBLICATIONS:

- 1) Clyburn, T.A.: "Complications of the Use of Methylmethacrylate in Orthopaedic Surgery." The Medical Journal of St. Joseph Hospital, 7(1): 19-28, March 1982.
- 2) Clyburn, T.A., Lionberger, D.R., Tullos, H.S.: "Bilateral Fractures of the Transverse Processes of the Atlas." J Arthroplasty 1982 July; 64-A: 948.
- 3) Clyburn, T.A., Donovan, M.D.: "Atlantoaxial Instabilities in Children." The Medical Journal of St. Joseph Hospital, 19(2): 73-38, June 1984.
- 4) Clyburn, T.A.: "Dynamic External Fixation for Intra-Articular Comminuted Fractures of the Distal End of the Radius." J Arthroplasty 1987 Feb; 69-A (2):248-254.
- 5) Clyburn, T.A.: "Distal Radial Fractures - Traditional Treatment." External Fixation and Functional Bracing, Edited by Richard Coombs, Stuart Green and Augusto Sarmiento. Orthotext, Surrey, England. pp 167-171, 1989.
- 6) Reuben, J., Thomas, M., Charnov, J. and Clyburn, T.: "Femoral Fracture During Cementless Total Hip Arthroplasty." Transactions of the 37th Annual Orthopaedic Research Society, Volume 15, 1991.
- 7) Reuben, J., Thomas, M., Charnov, J. and Clyburn, T.: "Femoral Fracture During Cementless Total Hip Arthroplasty." Orthopaedic Transactions of the 58th Annual American Academy of Orthopaedic Surgeons, Volume 15, 1991.
- 8) Clyburn, T.A.; Hoots, W.K.; Oldfield, D.: "Cemented vs. Uncemented Knee Replacement in Hemophilia: A Study of the Effect on Blood Loss." Revista de Ortopedia y Traumatologia, 38:IB, 1994.

- 9) Clyburn, T.A.: "Revision Total Knee: Removal of Implants," in Rosenberg, A.G., Mabrey, J.D., Woolson, S.T., et al, (eds): *The Arthritic Knee*, Rosemont, IL, American Academy of Orthopaedic Surgeons, 2000.
- 10) Clyburn, T.A.: "Total Knee: Infection, Etiology, Pathogenesis, and Pathophysiology," in Rosenberg, A.G., Mabrey, J.D., Woolson, S.T., et al, (eds): *The Arthritic Knee*, Rosemont, IL, American Academy of Orthopaedic Surgeons, 2000.
- 11) Chelly, J. E., Greger, J., Gebhard, R., Coupe, K., Clyburn, T. A., Buckle, R. and Criswell, A.: "Continuous Femoral Blocks Improve Recovery and Outcome of Patients Undergoing Total Knee Replacement," *The Journal of Arthroplasty*, Vo. 16 No. 4, 2001.
- 12) Clyburn, T.A., Weitz-Marshall, A., and Ambrose, C.G.: "Constrained Acetabular Cups: A Cadaveric Biomechanical Evaluation." *J Arthroplasty*, 18(4):466-70, Jun 2003.
- 13) Ambrose CG, Gogola GR, Clyburn TA, Raymond AK, Peng AS, and Mikos AG. Antibiotic Microspheres: Preliminary Testing for Potential Treatment of Osteomyelitis, *Clinical Orthopaedics and Related Research*, 415:1-7, 2003.
- 14) Ambrose, CG, Clyburn, TA, Louden, K, Joseph, J, Wright, J, Gulati, P, Gogola, GR, Mikos, GA. Effective treatment of osteomyelitis with biodegradable microspheres in a rabbit model. *Clinical Orthopaedics and Related Research*, 421: 293-299, 2004.
- 15) Sheth, D.S., Oldfield, D., Ambrose, C., Clyburn, T.: "Total Knee Arthroplasty in Hemophilia Total knee arthroplasty in hemophilic arthropathy." *J Arthroplasty*. 2004 Jan;19(1):56-60.
- 16) Clyburn TA, "Timing of Prophylactic Antibiotics in TJA, *AAOS Bulletin*, August 2005.
- 17) Clyburn T.A., Weitz-Marshall, A, Ambrose, CM, Ursua, V; Outcomes of patellofemoral replacement in total knee arthroplasty using meticulous techniques. *Orthopedics*. 2007 Feb; 30(2):111-5.
- 18) Clyburn TA, Cui Q, "Antibiotic laden cement; current state of the art, *AAOS NOW*, May, 2007.

- 19) Surgical Site Infection Prevention and Control, An Emerging Paradigm. JBJS Am 2009 Nov: 91 Suppl 6:2-9.
- 20) Prevention of Infection in Orthopaedics- Intra-Operative Considerations, Instr Course Lectures, AAOS *in print; primary author on one chapter and co-author on three.
- 21) Instructional Course Lectures: AAOS, Kenneth A. Egol editor, 2011. F Chapter 40: The Current State of Infection in Orthopaedic Surgery: Evans, Richard P., Clyburn, Terry, Moucha, Calin, Prokuski, Laura
- 22) Instructional Course Lectures: AAOS, Kenneth A. Egol editor, 2011. Chapter 41: Prophylactic Antibiotics in Orthopaedic Surgery: Prokuski, Laura, Clyburn, Terry, Evans, Richard, Moucha, Calin
- 23) Instructional Course Lectures: AAOS, Kenneth A. Egol editor: 2011. Chapter 42: Surgical Infections Prevention: The Operating Room environment: Clyburn, Terry A., Evans, Richard, Mouch, Calin, Prokuski, Laura
- 24) Instructional Course Lectures: AAOS, Kenneth A. Egol editor, 2011. Chapter 43: Modifiable Risk Factors for Surgical Site Infection: Moucha, Calin, Clyburn, Terry, Evans, Richard, Prokuski, Laura
- 25) Modifiable Risk Factors For Surgical Site Infection. JBJS Am 2011 Feb. 93 (4): 398-404.
- 26) Fall Prevention in the Elderly: Analysis and Comprehensive Review of Methods Used in the Hospital and in the Home. J Am Acad Orthop Surg July 2011; vol 19: 402-409.

PRESENTATIONS:

- 1) "Methylmethacrylate." Clyburn, T.A. and Smith, T.K., Annual Edward T. Smith Orthopaedic Lectureship, 1981.
- 2) "A New Technique of Intramedullary Rodding in Osteogenesis Imperfecta." Robertson, D.B., Moor, T.O., and Clyburn, T.A., Tenth Annual Shrine Lectureship (Houston), 1982.
- 3) "Adamantinoma - Limb Salvage Procedures." Clyburn, T.A., Murray,

- J.M., Ayala, A. Western Orthopaedic Association Annual Meeting, 1983.
- 4) "Atlantoaxial Instability in Children." Clyburn T.A. and Donovan, M.D.
 - 5) Cervical Spine Research Society, Palm Beach, Florida, 1983.
 - 6) "Dynamic External Fixation in the Treatment of Fractures of the Distal Radius." Scientific Exhibit, AAOS, Atlanta, Georgia, 1984.
 - 7) "Chondroblastoma." Clyburn, T.A. and Murray, JA. Annual Edward T. Smith Orthopaedic Lectureship, 1984.
 - 8) "Osteoblastoma - The M.D. Anderson Experience." Annual Edward T. Smith Orthopaedic Lectureship, 1984.
 - 9) "Dynamic External Fixation of Fractures of the Distal Radius." AAOS, Las Vegas, Nevada, 1985.
 - 10) "Dynamic External Fixation of Fractures of the Distal Radius." Eleventh International Conference on Hoffman External Fixation, Toronto, Ontario Canada, September 20, 1985.
 - 11) "The Clyburn Dynamic Colles Fixator," Madrid, Spain, June 7-8, 1993
 - 12) "State of Total Joint Replacement in 1986." St. Joseph Hospital Surgery Grand Rounds, Houston, Texas, April 3, 1986.
 - 13) "How to Live with Arthritis." Television Program on the Public Broadcasting System (Channel 8). Houston, Texas 1986.
 - 14) "Resection of Bone Tumors." Eighth Annual St. Lukes Orthopaedic Pathology Lectureship, Houston, Texas, December 12-13, 1986.
 - 15) "Dynamic External Fixation of Fractures of the Distal Radius." Presented to the Royal Postgraduate Medical School, London, England, September 2-4, 1987.
 - 16) "Dynamic External Fixation of Fractures of the Distal Radius." Zimmer Conference Vail, Colorado, March 24, 1988.
 - 17) "A Comparison of Curved and Straight Long Stem Revision Prostheses." Biomet Conference Vail, Colorado, March 23-25, 1988.
 - 18) "Dynamic External Fixation of Fractures of the Distal Radius."

Presented to the Conference on Upper Extremity Trauma, University of Toronto, Toronto, Ontario Canada, September 23-24, 1988.

- 19) "Total Joint Replacement - State of the Art" Presented Quarterly to The University of Texas Medical Health Science Center – Houston
- 20) "Dynamic External Fixation of Fractures of the Distal Radius." The University of Texas Medical Branch at Galveston, Grand Rounds, Galveston, Texas, May 24, 1989
- 21) "Dynamic External Fixation of Fractures of the Distal Radius." Conference on Utilization of External Fixation in Orthopaedics and Traumatology. Madrid, Spain, March 28-30, 1990
- 22) "Preoperative Planning and Evaluation." Johnson and Johnson Conference. Hilton Head, S.C., May 9-13, 1990.
- 23) "Problems of Flexion." Johnson and Johnson Conference. Hilton Head, S.C., May 9-13, 1990.
- 24) "Blood Conservation Techniques." Depuy Conference on Current Concepts in Revision Total Hip Replacement. Houston, Texas, June 1 & 2, 1990.
- 25) "Radiographic Analysis of Acetabular Failures" Depuy Conference on Current Concepts in Revision Total Hip Replacement. Houston, Texas, June 1 & 2, 1990.
- 26) "Orthopaedic Matters Affecting Older Women" Ecumenical Older Adult Program, Houston, Texas, March 19, 1993.
- 27) "Arthritis," Center City Rotary Club, Houston, Texas, April 14, 1993
- 28) "The Clyburn Dynamic Colles Fixator" Zimmer Inc., Madrid, Spain, June 7-8, 1993
- 29) "Hip and Knee Prostheses," Family Practice Residency Program at St. Joseph Hospital Houston, Texas, February 14, 1996
- 30) "Orthopaedic Management in Hemophilia," The University of Texas Health Science Center at Houston, Grand Rounds, Houston, Texas, April 25, 1996
- 31) Orthopaedic Management of Hemophilia, University of Jamaica, Kingston, Jamaica, May 9, 1996
- 32) "Basic Fractures," Family Practice Residency Program at St. Joseph

Hospital, Houston, Texas, May 21, 1996

- 33) "Improvements in Cement Techniques for Femoral Components of Total Hip Arthroplasty," The University of Texas Health Science Center at Houston, Grand Rounds, Houston, Texas, April 17, 1997
- 34) "Dynamic External Fixation of Colles' Fractures: Twelve years of Clinical Experience and New Studies of Kinematics of the Wrist," The University of Texas Health Science Center at Houston, Grand Rounds, Houston, Texas, April 17, 1997
- 35) "Improvements in Cement Techniques for Femoral Components of Total Hip Arthroplasty," Texas Orthopaedic Association Scientific Program, Houston, Texas, May 16-17, 1997
- 36) "Dynamic External Fixation of Colles' Fractures: Twelve years of Clinical Experience and New Studies of Kinematics of the Wrist," Texas Orthopaedic Association Scientific Program, Houston, Texas, May 16-17, 1997
- 37) "A New Technique of Maintaining a Dry Femoral Canal During Cement Insertion for Total Hip Arthroplasty" Southern Orthopaedic Association 14th Annual Meeting Pebble Beach, California, July 24-26, 1997
- 38) "Soft Tissue Tension and Balance: The Key to Shoulder Arthroplasty," U. T. - Edward T. Smith Lectureship Houston, Texas, November 7, 1997
- 39) "Patella Alignment in Total Knee Arthroplasty" and "Cemented vs. Uncemented Tibial Stem with Cemented Tray in Total Knee Arthroplasty," Advances in Total Joint Arthroplasty, Wright Medical Snowmass, CO, January 22-24, 1998
- 40) "Severe Fractures of the Distal Radius & Update" Grand Rounds – The University of Texas Health Science Center at Houston, Houston, Texas, April 30, 1998
- 41) "Dynamic External Fixation Radius Fractures," International Complex Distal Radius Course, San Francisco, CA, May 8-10, 1998
- 42) Chairman and Moderator, "Chondrocytes Cartilage Transplantation" The University of Texas Health Science Center at Houston. Houston, TX, May 16, 1998
- 43) "Total Hip Arthroplasty," Nanjing University Hospital Nanjing, P.R.,

China, June 26, 1998

- 44) "Total Hip Arthroplasty," Nanfang Hospital of the First Military Medical University, Guangzhou, P.R. China, June 30, 1998
- 45) "Preliminary Findings of Fibrin as a Hemostatic Agent for Bone" Beriplast-P Surgery Advisory Board, Colorado Springs, CO, July 17-18, 1998
- 46) "Living with Arthritis," Arthritis Foundation South Texas Chapter, River Oaks Country Club, Houston, TX , September 23, 1998
- 47) "Cadaveric and Clinical Study of Colles Fracture Fixation Utilizing a Mechanical Reduction Device" Poster Presentation, The University of Texas Health Science Center at Houston Research Day, October 2, 1998
- 48) "A Comparative Study of Two Cement Techniques of the Femur," Poster Presentation, The University of Texas Health Science Center at Houston, Research Day, October 2, 1998
- 49) "The Effect of Fibrin Glue on Blood Loss During Total Hip Arthroplasty in Dogs," Poster Presentation, The University of Texas Health Science Center at Houston, Research Day, October 2, 1998
- 50) "Evaluation of the Efficacy of Glucosamine, Chondroitin Sulfate and Hyaluronic Acid on Cartilage Healing, Poster Presentation, The University of Texas Health Science Center at Houston, Research Day, October 2, 1998
- 51) "A New Biodegradable Vehicle for antibiotic Delivery for Osteomyelitis," Poster Presentation, The University of Texas Health Science Center at Houston, Research Day, October 2, 1998
- 52) "Long-Term Results of Cemented Tibial Components of TKA: A Comparison of Cemented vs. Uncemented Stems," Poster Presentation, The University of Texas Health Science Center at Houston, Research Day, October 2, 1998
- 53) "Long-Term Results of Cemented Polyethylene Patella in TKA; Utilizing Meticulous Technique," Poster Presentation, The University of Texas Health Science Center at Houston, Research Day, October 2, 1998
- 54) "Improved Techniques in Cemented Total Hip Arthroplasty,"

Egyptian Orthopaedic Association, Cairo, Egypt, November 16-19, 1998

- 55) "The Treatment of Complicated Distal Radial Fractures," Egyptian Orthopaedic Association, Cairo, Egypt, November 16-19, 1998
- 56) "Clinical Correlation: Lower Extremity Orthopaedics," Gross Anatomy Course, The University of Texas Health Science Center at Houston, Houston, TX, November 25, 1998
- 57) "A Comparative Study of Two Cement Techniques of the Femur" Poster Presentation, American Academy of Orthopaedic Surgeons 66th Annual Meeting, Anaheim, CA, February 4-8, 1999
- 58) "Cadaveric and Clinical Study of Colles Fracture Fixation Utilizing a Mechanical Reduction Device," Scientific Exhibit, American Academy of Orthopaedic Surgeons 66th Annual Meeting, Anaheim, CA, February 4-8, 1999
- 59) "Cadaveric and Clinical Study of Colles' Fracture Fixation Utilizing a Mechanical Reduction Device," Mid-America Orthopaedic Association Seventeenth Annual Meeting, Southampton Princess, Bermuda, April 14-18, 1999.
- 60) "Management of Supracondylar Fractures of the Distal Femur," Total Joint Arthroplasty, Current Issues, Concepts and Considerations, Kiawah, Island, S.C., September 24-25, 1999.
- 61) "Hyaluronic Acid and Chondroitin Sulfate," Total Joint Arthroplasty, Current issues, Concepts and Considerations, Kiawah, Island, S.C., September 24-25, 1999.
- 62) "A Comparative Study of Two Cement Techniques of the Femur," Southern Medical Association 93rd Annual Scientific Assembly, Dallas, Texas, November 10-14, 1999.
- 63) "Cadaveric and Clinical Study of Colles Fracture Fixation Utilizing a Mechanical Reduction Device," Southern Medical Association 93rd Annual Scientific Assembly, Dallas, TX, Nov. 10-14, 1999.
- 64) "Anatomy of the Lower Extremity," Peripheral Nerve Block Course, Department of Anesthesiology, of Texas-Houston Medical School, Houston, TX, October 7, 1999.
- 65) "Total Hip Arthroplasty - State of the Art "Program Director, Edward T. Smith Orthopaedic Lectureship The University of Texas-Houston

Medical School, Houston, Houston, TX, November 5, 2000.

- 66) "The Status of Total Joint Replacement" Grand Rounds, The University of Texas-Houston Department of Family Practice, Houston, TX, February 23, 2000
- 67) "Total Joint Replacement" Uniformed Services Family Health Plan (USFHP) Health Fair, St. Joseph Hospital, Houston, TX, January 29, 2000
- 68) "The Status of Total Joint Replacement" The University of Texas Health Science Center, Family Practice Grand Rounds, Houston, TX, February 23, 2000
- 69) "PLGA/PEG Microspheres as an Antibiotic Delivery System" 46th Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 11-14, 2000.
- 70) "Arthritis Awareness and Disease Management" The Jewish Community Center on behalf of the Arthritis Foundation, Houston, TX, April 14, 2000
- 71) "Current Trends in Calcar Replacement," The Spectrum of Orthopaedics, Trauma and Spine, Hilton, Head, SC, April 13-15, 2000
- 72) "Orthopaedic Management in Hemophilia" The University of Texas Health Science Center, Department of Orthopaedics Grand Rounds, Houston, TX, September 28, 2000
- 73) "Comparison of Microspheres with PMMA Cement as an Antibiotic Carrier for the Treatment of Osteomyelitis" The University of Texas Health Science Center, 6th Annual Research Day, October 6, 2000
- 74) "Use of Tobramycin-containing Resorbable Microspheres in the Treatment of Staphylococcal Osteomyelitis in the Rabbit Model," The University of Texas Health Science Center, 6th Annual Research Day, October 6, 2000
- 75) "Principles of Revision Total Knee Arthroplasty," Techniques in Total Joint Replacement, Memphis, TN, June 29, 2001
- 76) "Revision TKA Surgical Skills Demonstration," Techniques in Total Joint Replacement, Memphis, TN, June 29, 2001
- 77) "Creaking & Popping: Joint Replacement," Mini Medical School Series 2001: Living Well, Houston, TX, September 25, 2001

- 78) "Advances in Revision TKA," The University of Texas Health Science Center, Department of Orthopaedics Grand Rounds, Houston, TX, September 27, 2001
- 79) "Radiosynovectomy in Hemophilia," Annual Gulf States Hemophilia Conference Houston, TX, May 4, 2002
- 80) "Update of Orthopaedic Options in Arthritis Treatment," The University of Texas Health Science Center, Family Practice Grand Rounds, Houston, TX, August 28, 2002
- 81) "Human Knee Osteoarthritis: An Exploration of Gene Expression Using DNA Microarrays" CR2003 Meetings, Baltimore, Maryland, March 13-16, 2003
- 82) "Orthopaedic Treatment of Rheumatoid Arthritis" The Jewish Community Center, Houston, TX, March 22, 2003
- 83) "Make No Bones About It – Use it or Lose It" Annual Assistants Luncheon, The University of Texas Health Science Center at Houston, Houston, TX, June 26, 2003
- 84) "When to Refer For Total Joint Arthroplasty," Grand Rounds, Internal Medicine, Lyndon B. Johnson General Hospital, Houston, TX, October 3, 2003
- 85) "Difficult Problems in Total Joint Arthroplasty," NAON (National Association of Operating Room Nurses), Houston, TX, October 6, 2003
- 86) "Constrained Acetabulum; a Biomechanical Cadaveric Study," Western Orthopaedic Association 67th Annual Scientific Meeting, San Antonio, TX, October 17-22, 2003
- 87) "PLGA Antibiotic Microspheres in the Treatment of Osteomyelitis" Western Orthopaedic Association 67th Annual Scientific Meeting, San Antonio, TX, October 17-22, 2003
- 88) "Comparison of Two Cement Techniques - New Suction Injection Device," *poster presentation*, Western Orthopaedic Association 67th Annual Scientific Meeting, San Antonio, TX, October 17-22, 2003
- 89) "Isotopic Synovectomies," Region VI Annual Hemophilia Providers Meeting Houston, TX, February 5-8, 2004
- 90) "Total Hip Replacement – Component Design" Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of

Texas Health Science Center at Houston. Houston, Texas, February 26, 2004

- 91) "Total Hip Arthroplasty – Demand Matching – Choosing the Implant" Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston. Houston, Texas, March 18, 2004
- 92) "Total Joints: Osteonecrosis" Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston. Houston, Texas, April 15, 2004
- 93) "Total Joints: The Treatment of the Infected Total Joint" Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston. Houston, Texas, May 20, 2004
- 94) "Total Joints: Dislocation of the Total Hip" Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston. Houston, Texas, June 17, 2004
- 95) "Pre-Op Planning: Total Knee/Total Hip" Grand Rounds, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston. Houston, Texas, June 17, 2004
- 96) "Total Joints: Osteolysis & Aseptic Loosening" Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston. Houston, Texas, July 15, 2004
- 97) "Total Joints: Results – Total Hip Arthroplasty" Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston. Houston, Texas, August 19, 2004
- 98) "Total Joints: Revision Total Hip" Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston. Houston, Texas, September 23, 2004
- 99) "Updates in Total Joint Replacement" Grand Rounds, General Medicine The University of Texas Health Science Center at Houston. Houston, Texas, September 28, 2004
- 100) "A Comparative Study of Imageless Navigation vs. Mechanical Alignment in Total Knee Arthroplasty: A Cadaveric Study" Western Orthopaedic Association 68th Annual Scientific Meeting San Francisco, California, September 29–October 2, 2004
- 101) "Weight Bearing on an Uncemented Total Hip Arthroplasty: A Prospective Comparison of Weight Bearing as Tolerated vs. Touch Down Only by Subsidence Measurement" Western Orthopaedic Association 68th Annual

Scientific Meeting San Francisco, California, September 29–October 2, 2004

- 102) “Total Joints: Knee – Anatomy/Biomechanical/Approaches” Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston. Houston, Texas, October 21, 2004
- 103) “Minimally-Invasive Surgery: Total Hip” Biomet Learning Center Los Angeles, California, October 22-23, 2004
- 104) “Minimally-Invasive Surgery: Total Knee” Biomet Learning Center Los Angeles, California, October 22-23, 2004
- 105) “The Use of an Infrared-Based Navigation System in Total Knee Arthroplasty” 48th Annual Edward T. Smith Lectureship The University of Texas Health Science Center at Houston, Houston, Texas, November 4, 2004
- 106) “Total Joints: Anesthetic Considerations” Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston, Houston, Texas, November 18, 2004
- 107) “Total Joints: Knee Ligament Balancing the Holy Grail” Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston, Houston, Texas, December 16, 2004
- 108) “Total Joints: Knee – Osteotomies/Other Lesser Surgeries” Sub-Specialty Conference, UT Department of Orthopaedic Surgery The University of Texas Health Science Center at Houston, Houston, Texas, January 20, 2005
- 109) “Constrained Acetabular Liner” Advances in Hip & Knee Arthroplasty Washington, D.C., April 22-23, 2005
- 110) “Computer-Assisted TKR – The Basics” Advances in Hip & Knee Arthroplasty Washington, D.C., April 22-23, 2005
- 111) “Orthopaedic Review Lecture” Family Practice Board Review Cancun, Mexico, May 4, 2005
- 112) “Mini Mid-Vastus Approach in TK Arthroplasty” Tissue-Sparing Treatment of Degenerative Joint Disease The Institute of Orthopedic Research and Education and The Methodist Hospital Houston, Texas, October 6 – 8, 2005
- 113) “Minimally Invasive – Posterior Approach” “Preoperative Evaluation of the Failed THR” “Correcting Flexion Contractures” Advances in Hip and Knee Arthroplasty Course Rio Grande, Puerto Rico, January 19 – 21, 2006

- 114) Update; What's New in Total Joints. University of Texas Health and Science, Department of Orthopaedics, Orthopaedic and Rheumatology Conference, 2011.
- 115) Knee Pain Seminar. Foundation Surgical Hospital Houston, TX. October 28, 2010.
- 116) Surgical Site Infection Prevention – The Operating Room Environment; an Instructional Course Lecture. American Academy of Orthopaedic Surgeons, Feb 15-19, 2011 San Diego, CA.
- 117) Resurfacing Technology in Total Joint Replacement. Bexar County EMS Facility. ConforMIS Cadaver Lab. March 18, 2011 San Antonio, TX.
- 118) Multimodal Pain Management in Orthopedics. Lab Instructor – Oxford Unicompartmental Knee. The Methodist Hospital – Methodist International. May 13, 2011. Houston, TX
- 119) Orthopedic Round Table Discussion: Knee Pain. Houston Orthopedic Hospital Houston, TX. July 14, 2011

POSTER PRESENTATIONS:

- 1) “Current Trends and Hot Topics in Infection Prevention, Treatment and Surveillance” American Academy of Orthopaedic Surgeons Annual Meeting Chicago, Illinois, March 22 – 26, 2006
- 2) “Orthopaedic Review Lecture” Family Practice Board Review Cancún, México, June 12, 2006
- 3) “Use of Bone Graft Substitutes in Joint Replacement” The 50th Annual Edward T. Smith Orthopaedic Lectureship Houston, Texas, October 28, 2006
- 4) “Prevention of Surgical Site Infections in Total Joint Arthroplasty” TMF Health Quality Institute Conference Surgical Care Improvement Project – Learning Session III Austin, Texas, November 10, 2006
- 5) “Current Trends and Hot Topics in Infection Prevention, Treatment and Surveillance” American Academy of Orthopaedic Surgeons Annual Meeting San Diego, California March 22 – 26, 2007.
- 6) “A comparative study of fracture resistance of single vs. three peg patella in total knee replacement- a cadaveric biomechanical study”. American Academy of Orthopaedic Surgeons Annual Meeting San Diego, California March 22 – 26, 2007.
- 7) University of Texas at San Antonio Orthopaedic Resident Review Course. San

- Antonio, 4/13-15-2007. "Prevention and treatment of infection in total joint arthroplasty"
- 8) Texas Orthopaedic Meeting presented by Biomet, Horseshoe Bay Texas, 4/27/2007. Moderator and presenter. "Metal on metal total hip arthroplasty with large femoral heads"
 - 9) Emory University, Department of Orthopaedics Grand Rounds. "Prevention and Treatment of Infection in Total Joint Arthroplasty".
 - 10) The Methodist Hospital, Division of Total Joints Replacement, "Alternate Bearing Surfaces in Total Joint Arthroplasty", 2/2008. Scientific Exhibit, Update of Community and Hospital Associated MRSA Infections for the Orthopaedist, AAOS, San Francisco, 2008.
 - 11) Update on the Orthopaedic Aspects of Hemophilia, Webinar of the National Hemophilia Foundation, July 23rd, 2008.
 - 12) Makoplasty, Bellaire Civic Club, August 11th, 2008.
 - 13) Actualizaciones en Artroplastia de cadera, International Conference on Orthopaedics, Septiembre, 2008.
 - 14) Remplaxo total y uni-compartamental de rodilla, International Conference on Orthopaedics, Septiembre, 2008.
 - 15) Remplaxo total de hombro, International Conference on Orthopaedics, Septiembre, 2008.
 - 16) Unicompartmental Knee Replacement, Houston Area Radiologic Technicians Society, October 18th, 2008.
 - 17) Effects of Modularity on Stability of Total Hip Arthroplasty, Friday Symposia, American Association of Hip and Knee Surgeons, November 7th, 2008.
 - 18) Scientific Exhibit American Academy of Orthopaedic Surgeons; Hot Topics in Infection Prevention, February, 2009
 - 19) Instructional Course Lecture, American Academy of Orthopaedic Surgeons, Surgical Site Infection Prevention, February, 2009.
 - 20) Identification of Causative Bacteria in Osteomyelitis Using Raptic and Sensitive 16SrDNA Detection, Orthopedic Research Society, Las Vegas, February, 2009.
 - 21) Treatment of Unicompartmental Knee Disease, Academia Mexicana De Orthopedia Colegio Medico, AC. Monterrey MX, March, 2009.

- 22) Prevention of Infection in Total Joint Arthroplasty, Academia Mexicana De Orthopedia Colegio Medico, AC. Monterrey MX, March, 2009.
- 23) Bearing Surface Options in Total Hip Arthroplasty, Academia Mexicana De Orthopedia Colegio Medico, AC. Monterrey MX, March, 2009.
- 24) Modularity in Total Hip Arthroplasty, Academia Mexicana De Orthopedia Colegio Medico, AC. Monterrey MX, March, 2009.
- 25) Prevention of Infection in Total Joint Arthroplasty. St Louis Orthopaedic Association, University of Missouri, October, 2009.
- 26) Patient Specific Knee Arthroplasty Based on Pre-Operative Imaging. 27th Annual Meeting, Southern Orthopaedic Association. June 16-19, 2010
- 27) Patient Specific Knee Arthroplasty Based on Pre-Operative Imaging San Antonio Orthopaedic Society, June, 2010
- 28) Prevention of Infection in Orthopaedic Procedures. University of Texas at Houston, Department of Orthopaedics, Grand Rounds, September, 2010.
- 29) El Colegio De Ortopedia Y Traumatologia De Nuevo Leon A.C. Fracturas Periprotésicas (Periprosthetic fractures). Monterrey, Mexico September 30th, 2011.
- 30) Local Drug Delivery in the Prevention and Treatment of Infection. University of Texas Medical School, 55th Annual Edward T. Smith Orthopaedic Lectureship, November 3rd, 2011.
- 31) The TERMIS North America 2011 Annual Conference & Exposition. Regenerative Medicine's Challenge to Cure. Cartilage Degeneration and Its Impact on Society. Hilton Americas Houston, TX December 14, 2011.

TEACHING RESPONSIBILITIES The following lectures are given on a monthly basis over a two year cycle.

1. Complications of Total Joint Arthroplasty-An Overview
2. Basic Principles of Cemented Total Joint Arthroplasty
3. Basic Principles of Un-cemented Total Joint Arthroplasty
4. Hip; Surgical Approaches and Anatomical Considerations
5. Biomechanics of the Hip
6. Hip; Osteotomies and Other "Lesser" Surgeries
7. Total Hip Replacement-Component Design
8. Total Hip Arthroplasty- Demand Matching-Choosing the Implant
9. Osteonecrosis

10. The Treatment of the Infected Total Joint
11. Dislocation of the Total Hip
12. Osteolysis and Aseptic Loosening
13. Results of Total Hip Arthroplasty
14. Revision Total Hip Arthroplasty
15. Knee- anatomy, biomechanics and approaches
16. Knee-Ligament Balancing-The "Holy Grail"
17. Knee; Osteotomies and Other "Lesser" Surgeries
18. Total Knee Arthroplasty-Component Design
19. Results of Total Knee Arthroplasty
20. Revision Total Knee Arthroplasty
21. Bearing Materials- Poly-Ethylene, Ceramic and Metal-Metal
22. Managing Blood Loss in Total Joint Arthroplasty
23. Anesthetic Considerations in Total Joint Arthroplasty
24. Tough Primaries- Hemophilia, JRA, Paget's, Renal Transplant

MEETINGS ATTENDED:

- 1) "Methylmethacrylate." Clyburn, T.A. and Smith, T.K., Annual Edward T. Smith Orthopaedic Lectureship, 1981.
- 2) "A New Technique of Intramedullary Rodding in Osteogenesis Imperfecta." Robertson, D.B., Moor, T.O., and Clyburn, T.A., Tenth Annual Shrine Lectureship (Houston), 1982.
- 3) "Adamantinoma - Limb Salvage Procedures," Clyburn, T. A., Murray, J.M., Ayala, A. Western Orthopaedic Association Annual Meeting, 1983.
- 4) "Atlantoaxial Instability in Children." Clyburn T.A. and Donovan, M.D. Cervical Spine Research Society, Palm Beach, Florida, 1983.
- 5) "Dynamic External Fixation in the Treatment of Fractures of the Distal Radius." Scientific Exhibit, AAOS, Atlanta, Georgia, 1984.
- 6) "Chondroblastoma." Clyburn, T.A. and Murray, JA. Annual Edward T. Smith Orthopaedic Lectureship, 1984.
- 7) "Osteoblastoma - The M.D. Anderson Experience." Annual Edward T. Smith Orthopaedic Lectureship, 1984.
- 8) "Dynamic External Fixation of Fractures of the Distal Radius." AAOS, Las Vegas, Nevada, 1985.
- 9) "Dynamic External Fixation of Fractures of the Distal Radius."

Eleventh International Conference on Hoffman External Fixation, Toronto, Ontario Canada, September 20, 1985.

- 10) Thirteenth Annual Shrine Lectureship Houston, Texas, March 15, 1985.
- 11) Instructional Course in Total Hip Replacement Autophor/Xenophor, Valbella-Lenzerheide, Switzerland, March 29-April 3, 1985.
- 12) Seventh Annual St. Luke's Orthopaedic Pathology Lectureship. Houston, Texas, September 13, 1985.
- 13) Surgical Grand Rounds Presentation at St. Joseph Hospital, "State of Total Joint Replacement," Houston, Texas, 1986.
- 14) Maine Orthopaedic Review, Accredited by the Mid-Maine Medical Center, Waterville for 74 hours. June 15-28, 1986.
- 15) Eighth Annual St. Lukes Orthopaedic Pathology Lectureship, Houston, Texas, December 12-13, 1986.
- 16) American Academy of Orthopaedic Surgery, San Francisco, California, January 21-22, 1987.
- 17) The Knee Society Annual Meeting, San Francisco, California, January 21-22, 1987.
- 18) University of London Royal Postgraduate Medical School, London, England, September 2-4, 1988.
- 19) Hermann Hospital Life Flight Emergency Care Symposium, Houston, Texas, March 14-16, 1988.
- 20) "Dynamic External Fixation of Fractures of the Distal Radius." Zimmer Conference, Vail, Colorado, March 24, 1988.
- 21) "A Comparison of Curved and Straight Long Stem Revision Prostheses." Biomet Conference, Vail, Colorado, March 23-25, 1988.
- 22) Conference on Upper Extremity Trauma, University of Toronto, Toronto, Ontario Canada, September 23-24, 1988.
- 23) Instructional Course in Hip and Knee Reconstructive Surgery. Western Orthopaedic Society Annual Meeting, Kauai, Hawaii, October 12-14, 1988.

- 24) The Edward T. Smith Orthopaedic Lectureship, Disorders of the Foot. The University of Texas Medical School at Houston, Houston, Texas, November 18, 1988.
- 25) American Academy of Orthopaedic Surgery, Las Vegas, Nevada, February 9-14, 1988.
- 26) Instructional Course in Total Joint Replacement Presented by the Joint Implant Surgery and Research Foundation, St. Thomas, U.S. Virgin Islands, April 19-23, 1989.
- 27) The University of Texas Medical Branch at Galveston Grand Rounds, "Dynamic External Fixation of Fractures of the Distal Radius." Houston, TX, May 24, 1989
- 28) The Edward T. Smith Orthopaedic Lectureship, "Controversies in Total Knee Replacement." The University of Texas Medical School at Houston, Houston, Texas, September 8-9, 1989.
- 29) St. Joseph Hospital Orthopaedic Symposium for the Primary Care Physician. St. Joseph Hospital, Houston, Texas, September 22-23, 1989.
- 30) Conference on Utilization of External Fixation in Orthopaedics and Traumatology. Madrid, Spain, March 28-30, 1990
- 31) Total Joint Replacement, Arthritis of the Knee and Hip-Practical Surgical Management for 1990's, Presented by Joint Implant Surgery and Research Foundation Hilton Head, S.C., May 9-10, 1990
- 32) Depuy Conference on Current Concepts in Revision Total Hip Replacement, Houston, TX, June 1-2, 1990
- 33) Instructional Course in Total Joint Replacement Presented by the Joint Implant Surgery and Research Foundation at the Texas Medical Association 123rd Annual Session
- 34) Arthritis of the Hip and Knee, Presbyterian-Saint Luke's Medical Center, Vail, Colorado, March 16-18, 1991
- 35) Lumbar Spine Segmental Internal Fixation Course, The University of Texas Health Science Center at San Antonio, Texas, April 10-12, 1992
- 36) 28th Annual Orthopaedic Symposium, Recent Advances In Lumbar Spine Surgery: Diagnosis and Management, St. Luke's Episcopal Hospital, Houston, Texas, April 24 and 25, 1992

- 37) Arthritis of the Hip and Knee, Practical Surgical Management for the 1990's, Vail, Colorado, March 20-23, 1993
- 38) 29th Annual Orthopaedic Symposium, Diagnosis and Treatment of Diseases of the Cervical Spine, St. Luke's Episcopal Hospital, Houston, Texas, April 23 and 24, 1993
- 39) Global Shoulder Learning Center, San Antonio, Texas, May 10, 1993
- 40) The Clyburn Dynamic Colles Fixator Zimmer, Inc., Madrid, Spain, June 7-8, 1993
- 41) Preparing for the Clinton Health Plan, Houston, Texas August 4, 1993
- 42) Radionuclide Synovectomy In Hemophilia, Los Angeles, California, August 21, 1993
- 43) Holmium Laser Arthroscopy and Disk Decompression, Houston, Texas, October 2, 1993
- 44) Current Topics in Spine Surgery U. T. Medical School, Houston, Texas, October 29 and 30, 1993
- 45) Third Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 12-14, 1993
- 46) AAOS 61st Annual Meeting New Orleans, LA, February 24 - March 1, 1994
- 47) Complex Distal Radius Fractures A Laboratory Course for the Practicing Surgeon San Francisco, California, May 12-14, 1994
- 48) Advances in Total Joint Arthroplasty Park City, Utah, January 19-21, 1995
- 49) St. Luke's 31st Annual Orthopaedic Symposium Houston, TX, April 28-29, 1995
- 50) Advances in Total Joint Arthroplasty Park City, Utah, January 18-20, 1995
- 51) AAOS - 1996 Annual Convention Atlanta, Georgia, February 21-26, 1996
- 52) AAOS 12th Annual Comprehensive Review Course for Orthopaedic Surgeons, Chicago, IL, March 17-22, 1996

- 53) St. Luke's 32nd Annual Orthopaedic Symposium Houston, TX, April 19-20, 1996
- 54) Orthopaedic Management in Hemophilia The University of Texas Grand Rounds, Houston, TX, April 25, 1996
- 55) Orthopaedic Management of Hemophilia, University of Jamaica, Kingston, Jamaica, May 9, 1996
- 56) Advances In Total Joint Arthroplasty Snow Mass, Colorado, January 23-26, 1997
- 57) AAOS 64th Annual Meeting, San Francisco, California, February 13-17, 1997
- 58) The University of Texas – Houston, Grand Rounds, Improvements in Cement Techniques for Femoral Components of Total Hip Arthroplasty, Houston, TX, April 17, 1997
- 59) The University of Texas – Houston, Grand Rounds, Dynamic External Fixation of Colles' Fractures: Twelve Years of Clinical Experience and New Studies of Kinematics of the Wrist, Houston, TX, April 17, 1997
- 60) Texas Orthopaedic Association, Improvements in Cement Techniques for Femoral Components of Total Hip Arthroplasty, Houston, TX, May 16-17, 1997
- 61) Texas Orthopaedic Association, Dynamic External Fixation of Colles' Fractures: Twelve Years of Clinical Experience and New Studies of Kinematics of the Wrist, Houston, TX, May 16-17, 1997
- 62) Southern Orthopaedic Association 14th Annual Meeting Pebble Beach, California, July 24-16, 1997
- 63) The University of Texas Edward T. Smith Lectureship, Soft Tissue Tension and Balance: The Key to Shoulder Arthroplasty, Houston, TX, November 7, 1997
- 64) Advances in Total Joint Arthroplasty, Wright Medical, Snowmass, CO, January 22-24, 1998
- 65) The University of Texas – Houston, Grand Rounds, Severe Fractures

of the Distal Radius & Update, Houston, TX, April 30, 1998

- 66) International Complex Distal Radius Course San Francisco, CA, May 8-10, 1998
- 67) Chairman and Moderator, "Chondrocytes Cartilage Transplantation," The University of Texas Health Science Center – Houston, Houston, TX, May 16, 1998
- 68) "Total Hip Arthroplasty," Nanjing University Hospital Nanjing, P.R., China, June 26, 1998
- 69) "Total Hip Arthroplasty," Nanfang Hospital of the First Military Medical University, Guangzhou, P.R. China, June 30, 1998
- 70) "Preliminary Findings of Fibrin as a Hemostatic Agent for Bone" Beriplast-P Surgery Advisory Board, Colorado Springs, CO, July 17-18, 1998
- 71) American Academy of Hip and Knee Surgeons Annual Fall Meeting, Dallas, TX, November 6-8, 1998
- 72) "Improved Techniques in Cemented Total Hip Arthroplasty," Egyptian Orthopaedic Association, Cairo, Egypt, November 16-19, 1998
- 73) "The Treatment of Complicated Distal Radial Fractures," Egyptian Orthopaedic Association, Cairo, Egypt, November 16-19, 1998
- 74) "Advances in Total Joint Arthroplasty," Wright Medical, Snowmass, CO, January 14-16, 1999
- 75) American Academy of Orthopaedic Surgeons 66th Annual Meeting Anaheim, CA, February 4-8, 1999
- 76) Mid-America Orthopaedic Association Seventeenth Annual Meeting, Southampton Princess, Bermuda, April 14-18, 1999.
- 77) Total Joint Arthroplasty, Current issues, Concepts and Considerations, Kiawah, Island, S.C., September 24-25, 1999.
- 78) Southern Medical Association 93rd Annual Scientific Assembly, Dallas, Texas, November 10-14, 1999.
- 79) "Total Hip Arthroplasty - State of the Art," Program Director, Edward

T. Smith Orthopaedic Lectureship, The University of Texas-Houston Medical School, Houston, TX, November 5, 1999.

- 80) "A Comparative Study of Two Cement Techniques of the Femur" 93rd Annual Southern Medical Association, Dallas, TX, November 12, 1999.
- 81) "Cadaveric & Clinical Study of Colles Fracture Fixation Utilizing a Mechanical Reduction Device," 93rd Annual Southern Medical Association, Dallas, TX, November 12, 1999.
- 82) "American Academy of Orthopaedic Surgeons 67th Annual Meeting," Orlando, FL, March 15-19, 2000
- 83) "The Spectrum of Orthopaedics, Trauma and Spine" Hilton Head, SC, April 13-15, 2000
- 84) "Oral Examiner," American Board of Orthopaedic Surgeons, Chicago, IL, July 10-13, 2000
- 85) "American Academy of Orthopaedic Surgeons 68th Annual Meeting," San Francisco, CA, February 28-March 4, 2001
- 86) "Techniques in Total Joint Replacement," Memphis, TN, June 29, 2001
- 87) "Radiosynovectomy in Hemophilia," Annual Gulf States Hemophilia Conference, Houston, TX, May 4, 2002
- 88) "Orthopedic Speakers Workshop," Las Vegas, NV, May 17-19, 2002
- 89) "AAHKS 12th Annual Meeting," Dallas, TX, November 1-3, 2002
- 90) "13th Annual Winter Total Joint and Sports Medicine Symposium," Park City, Utah, January 15-19, 2003
- 91) "AAOS 70th Annual Meeting," New Orleans, LA, February 4-9, 2003
- 92) "Tenth Annual Masters Series Techniques in Arthritis Surgery," Pasadena, CA, April 3-5, 2003
- 93) "Western Orthopaedic Association 67th Annual Scientific Meeting," San Antonio, TX, October 17-22, 2003.
- 94) "Region VI Annual Hemophilia Providers Meeting" Houston, TX, February 5-8, 2004

- 95) "Combined Specialty Day," Annual Meeting, American Association of Hip and Knee Surgeons, San Francisco, CA, March 13, 2004
- 96) Western Orthopaedic Association 69th Annual Scientific Meeting The Big Island of Hawaii, July 21 – 23, 2005
- 97) HICPAC Meeting Centers for Disease Control and Prevention National Center for Infectious Diseases Atlanta, GA, February 8 – 10, 2006
- 98) American Association of Hip and Knee Surgeons, Dallas, TX. November, 2006.
- 99) Birmingham Hip Course, Smith and Nephew, Las Vegas, NV, December 15th, 2006.
- 100) Oxford Knee Certification Course, Biomet, Atlanta, GA January 18th, 2007.
- 101) AAOS, San Diego California, February, 2007.
- 102) Combined Specialty Day, San Diego California, 2007.
- 103) International Conference of Orthopaedics, Monterrey Mexico, September, 2008.
- 104) American Association of Hip and Knee Surgeons, November, 2008.
- 105) Colegio De Ortopedia, Monterrey MX, September, 2009.
- 106) American Association of Hip and Knee Surgeons, November, 2009.
- 107) American Association of Orthopaedic Surgeons and Combined Specialty Day 2010.
- 108) 54th Annual Edward T. Smith Orthopaedic Lectureship Future Trends in the Treatment and Surgical Techniques for the Athlete with a focus on Shoulder, Hip and Knee injuries. The University of Texas Medical School at Houston. Hotel Zaza, Houston, TX October 21-23, 2010.
- 109) American Academy of Orthopaedic Surgeons 2011 Annual Meeting. San Diego, CA February 14-19, 2011.
- 110) iTotal Bioskills Laboratory, ConforMIS, Las Vegas, NV. July 15,

2011

- 111) American Board of Orthopaedic Surgery Oral Examiner. Chicago, IL July 18-21, 2011.
- 112) El Colegio De Ortopedia Y Traumatologia De Nuevo Leon A.C. Monterrey, Mexico September 29-October 1, 2011
- 113) 55th Annual Edward T. Smith Orthopaedic Lectureship. Hip and Knee Joint Preservation and Arthroplasty; Hot Topics and Controversies. The University of Texas Medical School at Houston. Four Seasons Hotel, Houston, TX November 3-4, 2011.
- 114) The TERMIS North America 2011 Annual Conference & Exposition. Regenerative Medicine's Challenge to Cure. Hilton Americas Houston, TX December 14, 2011.
- 115) AAOS National Convention San Francisco, CA February 7-11, 2012.
- 116) AAHKS 2012 22nd Annual Meeting Dallas, TX November 2-4, 2012.
- 117) ICJR 2012 4th Annual Modern Trends in Joint Replacement Palm Springs, CA November 15-17, 2012