



THE UNIVERSITY of TEXAS
HEALTH SCIENCE CENTER AT HOUSTON
MEDICAL SCHOOL

Department of
Orthopaedic Surgery

Terry A. Clyburn M.D.
6410 Fannin, Suite 1100
Houston, TX 77030

May 6, 2003

Dear Sir or Madam:

I am a board certified orthopaedic surgeon and have practiced medicine for nineteen years. I have been involved with the care of patients with hemophilia and I have served as the orthopaedic consultant for the Gulf States Hemophilia Center for the past nineteen years. I have enclosed my CV.

During my career, I have performed thousands of surgical procedures, including the treatment of traumatic injuries, various elective procedures and those required in the treatment of bleeding disorders. In those procedures in which there was a traumatic injury, the operative intervention was often emergent.

Based upon my significant experience, it is my considered opinion that from a physiologic standpoint, surgery is a refined form of trauma. Certainly, in elective surgery, the moment is planned, but the effect on the body is the same. There is trauma to the tissue which results in bleeding into and from these tissues. This establishes tissue responses including activation of the clotting cascade and all of the resultant effects.

I have reviewed the indication for Humate-P and note that it is indicated for, among other things, the treatment of trauma-induced bleeding in patients with von Willebrand's Disease. In my opinion, any pharmacologic agent including Humate-P which is appropriate for use in the treatment of traumatic injury in those with bleeding disorders is therefore appropriate to correct the bleeding abnormalities for surgery. The treatment of bleeding induced by "general" trauma and the bleeding induced by the trauma of surgery are the same.

Sincerely,



Terry A. Clyburn M.D.
Assistant Professor of Orthopaedics.

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
- Oral Examiner, American Board of Orthopaedic Surgeons, Chicago, IL, July 9-12, 2001
- Oral Examiner, American Board of Orthopaedic Surgeons, Chicago, IL, July 15-18, 2002

COMMITTEES:

Medical School

MSRDP Board of Directors At-large Member, 2002-present
Continuing Medical Education Committee, 1999-present
Interviewer, Medical Student Applicants, 1997-present

Department of Orthopaedics

Research Committee, 1994-present
Orthopaedic Education Council, 1997-present

ACADEMIC

APPOINTMENTS:

The University of Texas Health Science Center at Houston
Department of Orthopaedic Surgery, 7/01/97 to present:

- Assistant Professor
- Medical Director of Research
- Director, Total Joint Research

HOSPITAL

AFFILIATIONS:

Christus St. Joseph Hospital, Active Staff, 1984
Memorial Hermann Hospital, Active Staff, 1984
Lyndon B. Johnson General Hospital, Active Staff, 1996
Diagnostic Center Hospital, Provisional Staff, 2001
Texas Orthopaedic Hospital, Active Staff, 2002

MEDICAL LICENSE:

Texas F3846 (5/26/1979)

BOARD CERTIFIED:

Orthopaedic Surgery, 1986; Recertified 1996

**PROFESSIONAL
AFFILIATIONS:**

Harris County Medical Society (Houston, Texas)
Houston Orthopaedic Association
Texas Orthopaedic Society
American Academy of Orthopaedics Surgeons
American Board of Orthopaedic Surgery, 1986; Recertified 1996
Western Orthopaedic Society
American Academy of Hip and Knee Surgeons

DEVELOPMENTS:

Clyburn Dynamic Colle's Fixator, Zimmer, Inc., Patent 1986
Clyburn Fracture Reduction Table, Patent 1999
Advanced Colle's Fixator, Patent 1999
Femoral Canal Bone Dry Device, Patent 1998
Hip Vice Positioning Device
Antibiotic Microspheres

**CURRENT GRANT
SUPPORT:**

*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.

PAST GRANT SUPPORT:

Hybrid Metal/Metal Total Hip Arthroplasty
Primary Investigator, Encore Orthopedics, 3/01/99 – 8/01/2001,
\$12,000.

*"Continuous Femoral Blocks Improve Recovery and Outcome of
Patients Undergoing Total Knee Replacement"*
Institute for Surgical Pain Management (ISPM) 2000 Award for
Excellence, Education/Research Grant, August 2000, \$10,000.

*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.

*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

Fibrin glue in the reduction of bleeding of bone.
Primary Investigator, Centeon Co., 1/98 – 6/98, \$30,000.

*A comparison study of two cement injection techniques of the femur
in ovine species.*
Primary Investigator, Innovative Global Orthopaedic Technology in

**ONGOING RESEARCH
INTERESTS:**

Texas, 6/99 – 6/99, \$2,000.

Clinical Prospective Research Utilizing a Dynamic External Fixator For Use in the Treatment of Comminuted Fractures of the Distal Radius.

Clinical Studies in Evaluation of Total Knee and Hip Replacement.

Clinical Follow-up Hemophilia Joint Reconstruction.

Kinematic Study of the Wrist with Dr. Catherine Ambrose, The University of Texas Health Science Center at Houston

In Vivo Evaluation of Controlled Tobramycin. Delivery Via Biodegradable Microspheres, with Drs. Gogola, Ambrose, Clanton, and Mikos.

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.

The Effects of Fibrin Glue on Blood Loss During Total Hip Arthroplasty in Dogs, with Drs. Ambrose, Harrigan, Gogola, Mancuso, and Cohn.

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.

A New Cement Injector for Cementation of Femoral Component of Total Hip Arthroplasty, with Drs. Ambrose and Lavano.

A New Cement Gun: A Disposable, One-Piece Mixing and Injection System.

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.

Computer-Aided Reconstruction of Malunited Fractures of the Distal Radius, with Drs. Lavano, Kilagblian, and Ambrose.

The Kinematics of the Normal Fracture and Post-Dynamic External Fixated Wrists: A Stereophotogrametric Analysis of Helicalaxis, with Drs. Ambrose and Gogola.

A Prospective Study Utilizing Constrained Acetabulum Component in Problem Cases.

A Multi-Center Prospective Study of the Bridge Hip System with Richard Jones, M.D.

Multi-Center Hybrid-Metal/Metal Total Hip Study

PUBLICATIONS:

Clyburn, T.A.: "Complications of the Use of Methylmethacrylate in Orthopaedic Surgery". The Medical Journal of St. Joseph Hospital, 17(1): 19-28, March 1982.

Clyburn, T.A., Lionberger, D.R., Tullos, H.S.: "Bilateral Fractures of the Transverse Processes of the Atlas". J.B.J.S., 64-A: 948, July 1982.

Clyburn, T.A., Donovan, M.D.: "Atlantoaxial Instabilities in Children". The Medical Journal of St. Joseph Hospital, 19(2): 73-38, June 1984.

Clyburn, T.A.: "Dynamic External Fixation for Intra-Articular Comminuted Fractures of the Distal End of the Radius". J.B.J.S., Vol 69-A, No. 2, 248-254, February 1987.

Clyburn, T.A.: "Distal Radial Fractures - Traditional Treatment". External Fixation and Functional Bracing, Edited by Richard Coombs, Stuart Green and Augusto Sarmento. Orthotext, Surrey, England. pp 167-171, 1989.

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.

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.

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.

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.

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.

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

Clyburn, T.A., Weitz-Marshall, A., and Ambrose, C.G.: "Constrained Acetabular Cups: A Cadaveric Biomechanical Evaluation". Accepted for publication in the *Journal of Arthroplasty*, 1/2001.

Sheth, D.S., Oldfield, D., Ambrose, C., Clyburn, T.: "Total Knee Arthroplasty in Hemophilia". Accepted for publication in the *Journal of Arthroplasty*, 6/2002.

PRESENTATIONS:

"Methylmethacrylate".

Clyburn, T.A. and Smith, T.K.,
Annual Edward T. Smith Orthopaedic Lectureship, 1981.

"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.

"Adamantinoma - Limb Salvage Procedures".

Clyburn, T.A., Murray, J.M., Ayala, A. Western
Orthopaedic Association Annual Meeting, 1983.

"Atlantoaxial Instability in Children".

Clyburn T.A. and Donovan, M.D.
Cervical Spine Research Society, Palm Beach, Florida, 1983.

"Dynamic External Fixation in the Treatment of Fractures of the Distal Radius". Scientific Exhibit, AAOS, Atlanta, Georgia, 1984.

"Chondroblastoma".

Clyburn, T.A. and Murray, JA.

Annual Edward T. Smith Orthopaedic Lectureship, 1984.

"Osteoblastoma - The M.D. Anderson Experience".

Annual Edward T. Smith Orthopaedic Lectureship, 1984.

"Dynamic External Fixation of Fractures of the Distal Radius".

AAOS, Las Vegas, Nevada, 1985.

"Dynamic External Fixation of Fractures of the Distal Radius".

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

"The Clyburn Dynamic Colles Fixator"

Madrid, Spain, June 7-8, 1993

"State of Total Joint Replacement in 1986".

St. Joseph Hospital Surgery Grand Rounds,
Houston, Texas, April 3, 1986.

"How to Live with Arthritis". Television Program on the Public
Broadcasting System (Channel 8).

Houston, Texas 1986.

"Resection of Bone Tumors". Eighth Annual St. Lukes Orthopaedic
Pathology Lectureship, Houston, Texas, December 12-13, 1986.

"Dynamic External Fixation of Fractures of the Distal Radius".

Presented to the Royal Postgraduate Medical School,
London, England, September 2-4, 1987.

"Dynamic External Fixation of Fractures of the Distal Radius".

Zimmer Conference

Vail, Colorado, March 24, 1988.

"A Comparison of Curved and Straight Long Stem Revision
Prostheses". Biomet Conference

Vail, Colorado, March 23-25, 1988.

"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.

"Total Joint Replacement - State of the Art"
Presented Quarterly to The University of Texas Medical Health
Science Center – Houston

"Dynamic External Fixation of Fractures of the Distal Radius".
The University of Texas Medical Branch at Galveston, Grand Rounds,
Galveston, Texas, May 24, 1989

"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

"Preoperative Planning and Evaluation"
Johnson and Johnson Conference
Hilton Head, S.C., May 9-13, 1990.

"Problems of Flexion". Johnson and Johnson Conference.
Hilton Head, S.C., May 9-13, 1990.

"Blood Conservation Techniques".
Depuy Conference on Current Concepts in Revision Total Hip
Replacement. Houston, Texas, June 1 & 2, 1990.

"Radiographic Analysis of Acetabular Failures"
Depuy Conference on Current Concepts in Revision Total Hip
Replacement. Houston, Texas, June 1 & 2, 1990.

"Orthopaedic Matters Affecting Older Women"
Ecumenical Older Adult Program,
Houston, Texas, March 19, 1993.

"Arthritis",
Center City Rotary Club,
Houston, Texas, April 14, 1993

"The Clyburn Dynamic Colles Fixator"
Zimmer Inc., Madrid, Spain, June 7-8, 1993

"Hip and Knee Prostheses"
Family Practice Residency Program at St. Joseph Hospital
Houston, Texas, February 14, 1996

"Orthopaedic Management in Hemophilia"

The University of Texas Health Science Center at Houston, Grand Rounds, Houston, Texas, April 25, 1996

Orthopaedic Management of Hemophilia
University of Jamaica
Kingston, Jamaica, May 9, 1996

“Basic Fractures”
Family Practice Residency Program at St. Joseph Hospital
Houston, Texas, May 21, 1996

“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

“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

“Improvements in Cement Techniques for Femoral Components of Total Hip Arthroplasty”, Texas Orthopaedic Association Scientific Program, Houston, Texas, May 16-17, 1997

“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

“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

“Soft Tissue Tension and Balance:
The Key to Shoulder Arthroplasty”
U. T. - Edward T. Smith Lectureship
Houston, Texas, November 7, 1997

“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

“Severe Fractures of the Distal Radius & Update”

Grand Rounds – The University of Texas Health Science Center at Houston, Houston, Texas, April 30, 1998

“Dynamic External Fixation Radius Fractures”, International Complex Distal Radius Course, San Francisco, CA, May 8-10, 1998

Chairman and Moderator, “Chondrocytes Cartilage Transplantation”
The University of Texas Health Science Center at Houston
Houston, TX, May 16, 1998

“Total Hip Arthroplasty”, Nanjing University Hospital
Nanjing, P.R., China, June 26, 1998

“Total Hip Arthroplasty”, Nanfang Hospital of the First Military Medical University, Guangzhou, P.R. China, June 30, 1998

“Preliminary Findings of Fibrin as a Hemostatic Agent for Bone”
Beriplast-P Surgery Advisory Board
Colorado Springs, CO, July 17-18, 1998

“Living with Arthritis”,
Arthritis Foundation South Texas Chapter
River Oaks Country Club, Houston, TX , September 23, 1998

“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

“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

“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

“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

“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

“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

“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

“Improved Techniques in Cemented Total Hip Arthroplasty”, Egyptian Orthopaedic Association, Cairo, Egypt, November 16-19, 1998

“The Treatment of Complicated Distal Radial Fractures”, Egyptian Orthopaedic Association, Cairo, Egypt, November 16-19, 1998

“Clinical Correlation: Lower Extremity Orthopaedics”, Gross Anatomy Course, The University of Texas Health Science Center at Houston, Houston, TX, November 25, 1998

“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

“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

“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.

“Management of Supracondylar Fractures of the Distal Femur”, Total Joint Arthroplasty, Current Issues, Concepts and Considerations, Kiawah, Island, S.C., September 24-25, 1999.

“Hyaluronic Acid and Chondroitin Sulfate”, Total Joint Arthroplasty, Current issues, Concepts and Considerations, Kiawah, Island, S.C., September 24-25, 1999.

“A Comparative Study of Two Cement Techniques of the Femur”, Southern Medical Association 93rd Annual Scientific Assembly, Dallas, Texas, November 10-14, 1999.

“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.

“Anatomy of the Lower Extremity”, Peripheral Nerve Block Course, Department of Anesthesiology, The University of Texas-Houston Medical School, Houston, TX, October 7, 1999.

"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.

"The Status of Total Joint Replacement"
Grand Rounds, The University of Texas-Houston Department of Family Practice, Houston, TX, February 23, 2000

“Total Joint Replacement”
Uniformed Services Family Health Plan (USFHP) Health Fair
St. Joseph Hospital, Houston, TX, January 29, 2000

“The Status of Total Joint Replacement”
The University of Texas Health Science Center, Family Practice Grand Rounds, Houston, TX, February 23, 2000

“PLGA/PEG Microspheres as an Antibiotic Delivery System”
46th Annual Meeting of the Orthopaedic Research Society,
Orlando, FL, March 11-14, 2000.

“Arthritis Awareness and Disease Management”
The Jewish Community Center on behalf of the Arthritis Foundation
Houston, TX, April 14, 2000

“Current Trends in Calcaneal Replacement”
The Spectrum of Orthopaedics, Trauma and Spine

Hilton Head, SC, April 13-15, 2000

“Orthopaedic Management in Hemophilia”

The University of Texas Health Science Center, Department of
Orthopaedics Grand Rounds, Houston, TX, September 28, 2000

“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

“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

“Principles of Revision Total Knee Arthroplasty”

Techniques in Total Joint Replacement
Memphis, TN, June 29, 2001

“Revision TKA Surgical Skills Demonstration”

Techniques in Total Joint Replacement
Memphis, TN, June 29, 2001

“Creaking & Popping: Joint Replacement”

Mini Medical School Series 2001: Living Well
Houston, TX, September 25, 2001

“Advances in Revision TKA”

The University of Texas Health Science Center, Department of
Orthopaedics Grand Rounds, Houston, TX, September 27, 2001

“Radiosynovectomy in Hemophilia”

Annual Gulf States Hemophilia Conference
Houston, TX, May 4, 2002

“Update of Orthopaedic Options in Arthritis Treatment”

The University of Texas Health Science Center, Family Practice
Grand Rounds, Houston, TX, August 28, 2002

“Human Knee Osteoarthritis: An Exploration of Gene Expression
Using DNA Microarrays”

CR2003 Meetings, Baltimore, Maryland
March 13-16, 2003

"Orthopaedic Treatment of Rheumatoid Arthritis"
The Jewish Community Center
Houston, TX, March 22, 2003

MEETINGS ATTENDED: "Methylmethacrylate". Clyburn, T.A. and Smith, T.K.,
Annual Edward T. Smith Orthopaedic Lectureship, 1981.

"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.

"Adamantinoma - Limb Salvage Procedures".
Clyburn, T.A., Murray, J.M., Ayala, A. Western
Orthopaedic Association Annual Meeting, 1983.

"Atlantoaxial Instability in Children".
Clyburn T.A. and Donovan, M.D.
Cervical Spine Research Society, Palm Beach, Florida, 1983.

"Dynamic External Fixation in the Treatment of Fractures of the Distal Radius". Scientific Exhibit, AAOS, Atlanta, Georgia, 1984.

"Chondroblastoma". Clyburn, T.A. and Murray, JA.
Annual Edward T. Smith Orthopaedic Lectureship, 1984.

"Osteoblastoma - The M.D. Anderson Experience".
Annual Edward T. Smith Orthopaedic Lectureship, 1984.

"Dynamic External Fixation of Fractures of the Distal Radius".
AAOS, Las Vegas, Nevada, 1985.

"Dynamic External Fixation of Fractures of the Distal Radius".
Eleventh International Conference on Hoffman External Fixation
Toronto, Ontario Canada, September 20, 1985.

Thirteenth Annual Shrine Lectureship
Houston, Texas, March 15, 1985.

Instructional Course in Total Hip Replacement
Autophor/Xenophor, Valbella-Lenzerheide,
Switzerland, March 29-April 3, 1985.

Seventh Annual St. Luke's Orthopaedic Pathology Lectureship.
Houston, Texas, September 13, 1985.

Surgical Grand Rounds Presentation at St. Joseph Hospital,
"State of Total Joint Replacement", Houston, Texas, 1986.

Maine Orthopaedic Review, Accredited by the Mid-Maine Medical
Center, Waterville for 74 hours.
June 15-28, 1986.

Eighth Annual St. Lukes Orthopaedic Pathology Lectureship,
Houston, Texas, December 12-13, 1986.

American Academy of Orthopaedic Surgery,
San Francisco, California, January 21-22, 1987.

The Knee Society Annual Meeting,
San Francisco, California, January 21-22, 1987.

University of London Royal Postgraduate Medical School,
London, England, September 2-4, 1988.

Hermann Hospital Life Flight Emergency Care Symposium,
Houston, Texas, March 14-16, 1988.

"Dynamic External Fixation of Fractures of the Distal Radius".

Zimmer Conference
Vail, Colorado, March 24, 1988.

"A Comparison of Curved and Straight Long Stem Revision
Prostheses". Biomet Conference
Vail, Colorado, March 23-25, 1988.
Conference on Upper Extremity Trauma,
University of Toronto,
Toronto, Ontario Canada, September 23-24, 1988.

Instructional Course in Hip and Knee Reconstructive Surgery.
Western Orthopaedic Society Annual Meeting,
Kauai, Hawaii, October 12-14, 1988.

The Edward T. Smith Orthopaedic Lectureship,
Disorders of the Foot.

The University of Texas Medical School at Houston,
Houston, Texas, November 18, 1988.

American Academy of Orthopaedic Surgery,
Las Vegas, Nevada, February 9-14, 1988.

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.

The University of Texas Medical Branch at Galveston Grand
Rounds, "Dynamic External Fixation of Fractures of the Distal
Radius". Houston, TX, May 24, 1989

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.

St. Joseph Hospital Orthopaedic Symposium for the Primary Care
Physician. St. Joseph Hospital,
Houston, Texas, September 22-23, 1989.

Conference on Utilization of External Fixation in Orthopaedics and
Traumatology. Madrid, Spain, March 28-30, 1990

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.

Depuy Conference on Current Concepts in Revision Total Hip
Replacement, Houston, TX, June 1-2, 1990

Instructional Course in Total Joint Replacement Presented by the
Joint Implant Surgery and Research Foundation at the Texas Medical
Association 123rd Annual Session

Arthritis of the Hip and Knee,
Presbyterian-Saint Luke's Medical Center,
Vail, Colorado, March 16-18, 1991

Lumbar Spine Segmental Internal Fixation Course,
The University of Texas Health Science Center at
San Antonio, Texas, April 10-12, 1992

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.

Arthritis of the Hip and Knee, Practical Surgical Management for the
1990's, Vail, Colorado,
March 20-23, 1993

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

Global Shoulder Learning Center
San Antonio, Texas, May 10, 1993

The Clyburn Dynamic Colles Fixator
Zimmer, Inc., Madrid, Spain, June 7-8, 1993

Preparing for the Clinton Health Plan
Houston, Texas, August 4, 1993

Radionuclide Synovectomy In Hemophilia
Los Angeles, California, August 21, 1993

Holmium Laser Arthroscopy and Disk Decompression,
Houston, Texas, October 2, 1993

Current Topics in Spine Surgery U. T. Medical School,
Houston, Texas, October 29 and 30, 1993

Third Annual Meeting of the American Association of Hip and Knee
Surgeons, Dallas, Texas, November 12-14, 1993

AAOS 61st Annual Meeting
New Orleans, LA, February 24 - March 1, 1994

Complex Distal Radius Fractures
A Laboratory Course for the Practicing Surgeon
San Francisco, California, May 12-14, 1994

Advances in Total Joint Arthroplasty
Park City, Utah, January 19-21, 1995

St. Luke's 31st Annual Orthopaedic Symposium
Houston, TX, April 28-29, 1995

Advances in Total Joint Arthroplasty
Park City, Utah, January 18-20, 1995

AAOS - 1996 Annual Convention
Atlanta, Georgia, February 21-26, 1996

AAOS 12th Annual Comprehensive Review Course for
Orthopaedic Surgeons, Chicago, IL, March 17-22, 1996

St. Luke's 32nd Annual Orthopaedic Symposium
Houston, TX, April 19-20, 1996

Orthopaedic Management in Hemophilia
The University of Texas Grand Rounds
Houston, TX, April 25, 1996

Orthopaedic Management of Hemophilia
University of Jamaica, Kingston, Jamaica, May 9, 1996
Advances In Total Joint Arthroplasty
Snow Mass, Colorado, January 23-26, 1997

AAOS 64th Annual Meeting
San Francisco, California, February 13-17, 1997

The University of Texas – Houston, Grand Rounds, Improvements
in Cement Techniques for Femoral Components of Total hip
Arthroplasty, Houston, TX, April 17, 1997

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

Texas Orthopaedic Association, Improvements in Cement
Techniques for Femoral Components of Total Hip Arthroplasty
Houston, TX, May 16-17, 1997

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

Southern Orthopaedic Association 14th Annual Meeting
Pebble Beach, California, July 24-16, 1997

The University of Texas Edward T. Smith Lectureship, Soft tissue Tension and Balance: The Key to Shoulder Arthroplasty
Houston, TX, November 7, 1997

Advances in Total Joint Arthroplasty, Wright Medical,
Snowmass, CO, January 22-24, 1998

The University of Texas – Houston, Grand Rounds, Severe Fractures of the Distal Radius & Update, Houston, TX, April 30, 1998

International Complex Distal Radius Course
San Francisco, CA, May 8-10, 1998

Chairman and Moderator, "Chondrocytes Cartilage Transplantation"
The University of Texas Health Science Center – Houston
Houston, TX, May 16, 1998

"Total Hip Arthroplasty"
Nanjing University Hospital
Nanjing, P.R., China, June 26, 1998

"Total Hip Arthroplasty"
Nanfang Hospital of the First Military Medical University
Guangzhou, P.R. China, June 30, 1998

"Preliminary Findings of Fibrin as a Hemostatic Agent for Bone"
Beriplast-P Surgery Advisory Board,
Colorado Springs, CO, July 17-18, 1998

American Academy of Hip and Knee Surgeons Annual Fall Meeting, Dallas, TX, November 6-8, 1998

"Improved Techniques in Cemented Total Hip Arthroplasty",
Egyptian Orthopaedic Association,
Cairo, Egypt, November 16-19, 1998

"The Treatment of Complicated Distal Radial Fractures",
Egyptian Orthopaedic Association,

Cairo, Egypt, November 16-19, 1998

“Advances in Total Joint Arthroplasty”, Wright Medical,
Snowmass, CO, January 14-16, 1999

American Academy of Orthopaedic Surgeons 66th Annual Meeting
Anaheim, CA, February 4-8, 1999

Mid-America Orthopaedic Association Seventeenth Annual
Meeting, Southampton Princess, Bermuda, April 14-18, 1999.

Total Joint Arthroplasty, Current issues, Concepts and
Considerations, Kiawah, Island, S.C., September 24-25, 1999.

Southern Medical Association 93rd Annual Scientific Assembly,
Dallas, Texas, November 10-14, 1999.

"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, 1999.

"A Comparative Study of Two Cement Techniques of the Femur"
93rd Annual Southern Medical Association
Dallas, TX, November 12, 1999.

"Cadaveric & Clinical Study of Colles Fracture Fixation Utilizing a
Mechanical Reduction Device"
93rd Annual Southern Medical Association
Dallas, TX, November 12, 1999.

“American Academy of Orthopaedic Surgeons 67th Annual Meeting”
Orlando, FL, March 15-19, 2000

“The Spectrum of Orthopaedics, Trauma and Spine”
Hilton Head, SC, April 13-15, 2000

“Oral Examiner”
American Board of Orthopaedic Surgeons
Chicago, IL, July 10-13, 2000

“American Academy of Orthopaedic Surgeons 68th Annual
Meeting”, San Francisco, CA, February 28-March 4, 2001

“Techniques in Total Joint Replacement”
Memphis, TN, June 29, 2001

“Radiosynovectomy in Hemophilia”
Annual Gulf States Hemophilia Conference
Houston, TX, May 4, 2002

“Orthopedic Speakers Workshop”
Las Vegas, NV, May 17-19, 2002

“AAHKS 12th Annual Meeting”
Dallas, TX, November 1-3, 2002

“13th Annual Winter Total Joint and Sports Medicine Symposium”
Park City, Utah, January 15-19, 2003

“AAOS 70th Annual Meeting”
New Orleans, LA, February 4-9, 2003

“Tenth Annual Masters Series Techniques in Arthritis Surgery”
Pasadena, CA, April 3-5, 2003