

Curriculum Vitae

Charles A. Engh, Sr., M.D.
The Anderson Clinic, Inc.
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Born: September 13, 1938, Washington, DC
Citizenship: U.S.A.

Education

1956 – 1959 B.S., Davidson College, Davidson, North Carolina
1959 – 1963 M.D., University of Virginia, Charlottesville, Virginia
1964 – 1965 Internship, General Surgery, Vanderbilt University Hospital
Nashville, Tennessee
1965 – 1969 Residency, Orthopaedic Surgery, Johns Hopkins Hospital
Baltimore, Maryland
1966 – 1967 Fellowship, Orthopaedic Pathology, Armed Forces Institute of
Pathology, Washington, D.C.

Certification

1963 State Board of Medical Examiners
1971 American Board of Orthopaedic Surgery

Licensure

1963 State of Virginia Medical License

Appointments

1994 - present Medical Director
INOVA Joint Replacement Center
INOVA Mount Vernon Hospital
Alexandria, Virginia
1995 - present Medical Director
Anderson Orthopaedic Research Institute
Alexandria, Virginia

- 1985 – present Clinical Associate Professor (promoted 1995)
University of Maryland School of Medicine
Baltimore, Maryland
- 1983 – 1994 Clinical Assistant Professor
Georgetown University School of Medicine
Washington, D.C.
- 1969 – 1971 Clinical Assistant Professor
The Johns Hopkins University School of Medicine
Baltimore, Maryland
- 1969 – 1971 Chief Surgeon
U. S. Public Health Hospital
Wyman Park
Baltimore, Maryland

Current Medical Memberships

- 1990 Academic Orthopaedic Society
- 1971 Alexandria Medical Society
- 1974 American Academy of Orthopaedic Surgeons
- 1992 American Orthopaedic Association
- 1992 Association for Arthritic Hip and Knee Surgery
- 1988 Association of Bone and Joint Surgeons
- 1987 The Hip Society
(Membership Committee Chairman 1993)
- 1991 The International Hip Society
- 1992 Society Internationale de Chirurgie Orthopedique et de
Traumatologie (SICOT)
- 1972 Virginia Orthopaedic Society
- 1975 Washington Orthopaedic Society (President, 1982–1983)

Editorial Tasks

- Reviewer for: *The Journal of Bone and Joint Surgery*
The Journal of Arthroplasty
Clinical Orthopaedics and Related Research

Book

Engh CA and Bobyn JD. *Biological Fixation in Total Hip Arthroplasty*. Engh CA and Bobyn JD (Eds.) Thorofare, New Jersey: Slack Inc., 1985.

Chapters

Engh CA, Sychterz CJ, Keeney J, Maloney WJ. "Bone Remodeling Around Hip Implants" *The Adult Hip*, Volume 2, pp 207-214, Callaghan, Rosenberg, Rubash Ed, Lippincott Williams & Wilkins, Philadelphia, PA, 2007

Bugbee WD, Engh CA. "Cementless Femoral Components: Extensively Coated" *The Adult Hip*, Volume 2, pp 989-1004, Callaghan, Rosenberg, Rubash Ed, Lippincott Williams & Wilkins, Philadelphia, PA, 2007

Engh CA. "Optimizing Stability and Leg Length" *Advanced Reconstruction: Hip*, 2003

Engh CA and Engh CA, Jr. "Distal Fixation." *Revision Total Hip Arthroplasty*, eds. Bono, J., McCarthy, J, Bierbaum, B, Thornhill, T and Tucker, R. Springer-Verlag, New York, 1998.

Bugbee W, Engh CA. "Extensively Coated Femoral Stems." *The Adult Hip*, eds. Callaghan J, Rosenberg A, Rubash, H. Lippincott-Raven Publishers Engh CA and Engh CA, Jr: "Femoral revision: Non-cemented," *Revision Total Hip Arthroplasty*. Steinberg ME and Garino JP (Eds). Lippincott-Raven Publishers, Philadelphia, 1998.

Cadambi A, Engh CA: "Cementless Total Hip Arthroplasty System" in *Master Techniques in Orthopaedic Surgery—The Hip*, Sledge CB (Ed). Raven Press, New York, 1997.

Engh CA: "Outcomes of the AML Hip," in *Total Hip Arthroplasty Outcomes*. Finerman GAM, Dorey F, Mc Kellop H and Grigoris P: (Eds.). Churchill Livingstone, New York, 1997.

Engh CA and Bugbee WD: "Extensively porous-coated femoral stems" in *Hip Surgery: New Materials and Developments*. Cabanela M (Ed). Martin Dunitz Publishers, London, 1996.

Macalino GE and Engh CA. "Cementless Acetabular Components: Porous vs. Threaded" in *Noncemented Hip and Knee Prosthesis*. Hans Huber Publishers, 1995.

Engh CA and Macalino GE: "Clinical results of cementless revision surgery: Are we doing better using extensively porous-coated stems?" In *Total Hip Revision Surgery*, Galante JO (Ed). Raven Press, Ltd., New York, 1995.

Engh CA. Introduction to *Hydroxylapatite Coatings in Orthopaedic Surgery* Rudolf Geesink (Ed.). Raven Press, Ltd., New York, 1993.

Engh CA, McGovern TF, Engh Jr. CA, Macalino GE. "Clinical experience with the Anatomic Medullary Locking (AML) prosthesis for primary total hip replacement." in *Biological, Material, and Mechanical Considerations of Joint Replacement: Current Concepts and Future Direction*, Morrey BF (Ed.). Raven Press, New York, 1993.

Engh CA, Forte, MR, Peters, P: "Complications associated with biologic ingrowth systems." Chapter 36 in *Hip Arthroplasty*. Amstutz, H.C. (Ed.). Churchill Livingstone, Inc., New York, 1991.

Engh CA, Massin P, Suthers KE. "Reontgenographic Assessment of the Biologic Type of Fixation and the Stability of Porous-surfaced Femoral Components" in *Noncemented Total Hip Replacement: International Symposium Tubingen, 1990*. W. Kusswetter (Ed.) Thieme Medical Publisher, New York, 1991.

Engh CA and Bobyn JD. "Results of porous-coated hip replacement using the AML prosthesis" Chapter 33. in *Non-Cemented Total Hip Arthroplasty*. Fitzgerald, R. (Ed.) New York: Raven Press, 1988.

Engh CA, Bobyn JD, Glassman AH. "Ingrowth fixation for stemmed prostheses" Chapter 33 in *Osteoarthritis in the Young Adult Hip*. Freeman, M.A.R. and Reynolds, D. (Eds.) Churchill Livingstone, New York, 1988.

Engh CA, Bobyn JD, Glassman AH. "Theory and practice of cementless revision total hip arthroplasty" Chapter 17 in *The Hip: Proc. of the 14th Open Scientific Meeting of the Hip Society*, St. Louis, Missouri, 1986.

Engh CA, Bobyn JD, Matthews J. "Biological fixation of a modified Moore prosthesis—evaluation of early clinical results" Part I and II in *The Hip: Proc. of the 12th Open Scientific Meeting of the Hip Society*, St. Louis, Missouri, 1984.

Manuscripts Submitted For Journal Publication

- Leung, SB, Egawa, H, Stepniewski, A, Beykirch, S, Engh, CA Jr, Engh, CA Sr: Incidence and Volume of Pelvic Osteolysis at Early Follow-up with Highly Cross-linked and Noncross-linked Polyethylene. *J Arthroplasty*, September 2007.
- Hamilton, WG, Calendine, CL, Beykirch, SE, Hopper, RH, Engh, CA Sr: Acetabular Fixation Options: First Generation Modular Cup: Curtain Calls and Caveats. *J Arthroplasty*, June 2007.
- Hamilton, WG, Cashen, DV, Ho, Henry, Hopper, RH, Engh, CA Sr: Extensively Porous-Coated Stems for Femoral Revision: A Choice for all Seasons. *J Arthroplasty*, June 2007.
- Kitamura N, Pappedemos PC, Duffy PR 3rd, Stepniewski AS, Hopper RH Jr, Engh CA Jr, Engh CA: The value of anteroposterior pelvic radiographs for evaluating pelvic osteolysis. *Clin Orthop.*, December 2006.
- Burke WV, Orishimo KF, McAuley JP, Engh CA: Midterm radiographic comparison of cementless acetabular shells containing lateralized and nonlateralized liners. *J Arthroplasty* December 2006.
- Chen CJ, Xenos JS, McAuley JP, Young A, Engh CA Sr: Second-generation porous-coated cementless total hip arthroplasties have high survival. *Clin Orthop.*, October 2006.
- Engh CA Jr, Stepniewski AS, Ginn SD, Beykirch SE, Sychterz-Terefenko CJ, Hopper RH Jr, Engh CA: A randomized prospective evaluation of outcomes after total hip arthroplasty using cross-linked marathon and non-cross-linked Enduron polyethylene liners. *J Arthroplasty* September 2006.
- Kitamura N, Sychterz-Terefenko CJ, Engh CA Sr: The temporal progression of pelvic osteolysis after uncemented total hip arthroplasty. *J Arthroplasty* September 2006.
- Hungerford DS, Cameron HU, Engh CA Sr, Gross AE, Rosenberg AG, Stulberg BN: What would you do? Challenges in hip surgery. *J Arthroplasty*. June 2006.
- Moore MS, McAuley JP, Young AM, Engh CA Sr: Radiographic signs of osseointegration in porous-coated acetabular components. *Clin Orthop.*, March 2006.
- Kitamura N, Leung SB, Engh CA Sr: Characteristics of pelvic osteolysis on computed tomography after total hip arthroplasty. *Clin Orthop.*, December 2005.
- Hamilton WG, Hopper RH Jr, Ginn SD, Hammell NP, Engh CA Jr, Engh CA: The effect of total hip arthroplasty cup design on polyethylene wear rate. *J Arthroplasty*. October 2005.

Walde TA, Weiland DE, Leung SB, Kitamura N, Sychterz CJ, Engh CA Jr, Claus AM, Potter HG, Engh CA Sr.: Comparison of CT, MRI, and radiographs in assessing pelvic osteolysis: a cadaveric study. *Clin Orthop.*, August 2005.

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Kitamura N, Naudie DD, Leung SB, Hopper RH Jr, Engh CA Sr.: Diagnostic features of pelvic osteolysis on computed tomography: the importance of communication pathways. *J Bone Joint Surg Am.*, July 2005.

Engh CA, Sychterz CJ, Engh CA Jr.: Conventional ultra-high molecular weight polyethylene: a gold standard of sorts. *Instr Course Lect.* 2005;54:183-7. Review.

Sychterz CJ, Young AM, Orishimo K, Engh CA.: The relationship between shelf life and in vivo wear for polyethylene acetabular liners. *J Arthroplasty.* February 2005.

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Walde TA, Mohan V, Leung S, Engh CA Sr.: Sensitivity and specificity of plain radiographs for detection of medial-wall perforation secondary to osteolysis. *J Arthroplasty.* January 2005.

Hopper RH Jr, Engh CA Jr, Fowlkes LB, Engh CA.: The pros and cons of polyethylene sterilization with gamma irradiation. *Clin Orthop.*, December 2004.

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Engh CA, Hopper RH Jr, Engh CA Jr.: Long-term porous-coated cup survivorship using spikes, screws, and press-fitting for initial fixation. *J Arthroplasty*, October 2004.

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Noble PC, Sugano N, Johnston JD, Thompson MT, Conditt MA, Engh CA, Mathis KB: Computer simulation: How can it help the surgeon optimize implant position? *Clin Orthop.*, December 2003.

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Dorr LD, Mallory TH, Learmonth ID, Bierbaum BE, Engh CA: Case challenges in hip surgery: What would you do? *Orthopedics*, September 2003.

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Boucher HR, Lynch C, Young AM, Engh CA Jr., Engh CA: Dislocation after polyethylene liner exchange in total hip arthroplasty. *J Arthroplasty*, August 2003.

Orishimo KF, Hopper RH Jr., Engh CA: Long-term in vivo wear performance of porous-coated acetabular components sterilized with gamma irradiation in air or ethylene oxide. *J Arthroplasty*, August 2003.

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Orishimo KF, Sychterz CJ, Hopper RH Jr., Engh CA: Can component and patient factors account for the variance in wear rates among bilateral total hip arthroplasty patients? *J Arthroplasty*, February 2003.

Engh CA: Pioneering in the first century of hip replacement: experiences of a surgeon-designer. *Clin Orthop*, February 2003.

Engh CA Jr., Ellis TJ, Koralewicz LM, McAuley JP, Engh CA: Extensively porous-coated femoral revision for severe femoral bone loss: minimum 10-year follow-up. *J Arthroplasty*, December 2002.

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Terefenko KM, Sychterz CJ, Orishimo K, Engh CA: Polyethylene liner exchange for excessive wear and osteolysis. *J Arthroplasty*, September 2002.

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Claus AM, Sychterz CJ, Hopper RH Jr., Engh CA: Pattern of osteolysis around two different cementless metal-backed cups: retrospective, radiographic analysis at minimum 10-year follow-up. *J. Arthroplasty*, December 2001.

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Toomey SD, Hopper RH Jr., McAuley JP, Engh CA: Modular component exchange for treatment of recurrent dislocation of a total hip replacement in selected patients. *J. Bone Joint Surg.*, October 2001.

Dorr LD, Maloney WJ, Gie G, Goldberg VM, Engh CA, Mallory TH: Hip challenges: What would you do? *Orthopedics*, September 2001.

Engh CA, Engh CA Jr., Claus A: The relationship between lysis and loosening in failed anatomic medullary locking components. *Orthopedics*, September 2001.

Sychterz CJ, Topoleski T, Sacco ME, Engh CA: The effect of femoral stiffness on bone remodeling after uncemented arthroplasty. *Clin Orthop*, August 2001.

Jana AK, Engh Jr. CA, Lewandowski PJ, Hopper RH, Engh CA: Total hip arthroplasty using porous-coated femoral components in patients with rheumatoid arthritis. *J. Bone Joint Surg Br*, July 2001.

Sychterz CJ, Young AM, Engh CA: The effect of radiographic quality on computer assisted head penetration measurements. *Clin Orthop*, May 2001.

Engh Jr. CA, Hopper RH, Engh CA: Wear-through of a modular polyethylene liner: Four case reports. *Clin Orthop*, February 2001.

Engh Jr. CA, McAuley JP, Sychterz CJ, Sacco ME, Engh CA: The accuracy and reproducibility of radiographic assessment of stress-shielding: A postmortem analysis. *J. Bone and Joint Surg Am*, October 2000.

Hartley WT, Culpepper WJ, Engh Jr. CA, McAuley JP, Engh CA: Osteonecrosis of the femoral head treated with cementless total hip arthroplasty. *J. Bone Joint Surg Am*, October 2000.

Engh CA, Hopper RH: Extensively porous-coated stems: A choice for all seasons. *Orthopedics*, September 2000.

Sychterz CJ, Young AM, Engh CA: The effect of radiographic quality on computer assisted head penetration measurements. *Clin Orthop.*, accepted September 2000.

Chen WM, McAuley JP, Engh Jr. CA, Hopper RH, Engh Sr. CA: Extended slide trochanteric osteotomy for revision total hip arthroplasty. *J. Bone Joint Surg Am*, September 2000.

Sychterz CJ, Engh Jr. CA, Young AM, Hopper RH, Engh Sr. CA: Comparison of in vivo wear between polyethylene liners articulating with cobalt-chrome femoral heads. *J. Bone Joint Surg Br*, September 2000

Dowd JE, Sychterz CJ, Young AM, Engh CA: Characterization of long-term femoral-head-penetration rates. Association with and prediction of osteolysis. *J. Bone Joint Surg Am*, August 2000

Sychterz CJ, Akisue T, Sacco ME, Young AM, Bauer T, Engh CA: Comparison between wear measured radiographically and wear measured from explanted polyethylene liners: The effect of multiple deformation vectors. Submitted to *J. Arthroplasty*, August 2000.

Engh Jr. CA, Sychterz CJ, Young AM, Pollock DC, Toomey SD, Engh CA: Interobserver and intraobserver variability in assessing osteolysis radiographically. Rejected, *J Bone and Joint Surg*, June 2000

Young AM, Sychterz CJ, Hopper RH, Engh CA: The effect of liner modularity on polyethylene wear and osteolysis. Submitted to *J. Bone Joint Surg*, May 2000.

Sychterz CJ, Young AM, McAuley JP, Engh CA: Comparison of head penetration into Hylamer and Enduron polyethylene liners: a follow-up report. *J Arthroplasty*. April 2000

McAuley JP, Sychterz CJ, Engh CA Sr. The Influence of Porous Coating Level on Proximal Femoral Remodeling: A Postmortem Analysis. *Clin Orthop*. 2000

Chen WM, Engh CA Jr, Hopper RH Jr, McAuley JP, Engh CA: Acetabular revision with use of a bilobed component inserted without cement in patients who have acetabular bone-stock deficiency. *J. Bone Joint Surg Am*, February. 2000

von Knoch M, Engh CA Sr., Sychterz CJ, Engh CA Jr, Willert HG: Migration of polyethylene wear debris in one type of uncemented femoral component with circumferential porous coating: an autopsy study of 5 femurs. *J Arthroplasty*. January 2000

Moore KD, Barrack RL, Sychterz CJ, Sawhney J, Yang AM, Engh CA: The effect of weight-bearing on the radiographic measurement of the position of the femoral head after total hip arthroplasty. *J. Bone Joint Surg, Am*, January 2000

Sychterz CJ, Yang AM, McAuley JP, Engh CA: Two-dimensional versus three-dimensional radiographic measurements of polyethylene wear. *Clin Orthop*. August 1999

Engh CA Jr, Sychterz C, Engh C Sr: Factors affecting femoral bone remodeling after cementless total hip arthroplasty. *J Arthroplasty*. August 1999

Sychterz CJ, Engh CA Jr, Yang A, Engh CA: Analysis of temporal wear patterns of porous-coated acetabular components: distinguishing between true wear and so-called bedding-in. *J. Bone Joint Surg, Am*. June 1999

Sychterz CJ, Engh CA Jr, Swope SW, McNulty DE, Engh CA: Analysis of prosthetic femoral heads retrieved at autopsy. *Clin Orthop*. January 1999

McAuley JP, Moore KD, Culpepper WJ 2nd, Engh CA: Total hip arthroplasty with porous-coated prostheses fixed without cement in patients who are sixty-five years of age or older. *J. Bone Joint Surg Am*. November 1998.

McAuley JP, Culpepper WJ, Engh CA: Total hip arthroplasty. Concerns with extensively porous coated femoral components. *Clin Orthop*. October 1998

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Taunton D, Culpepper WJ, Engh CA: Treatment of complications in primary cementless THA. *Clin Orthop*, November 1997.

Von Knoch M, Sychterz CJ, Engh CA, Jr., Engh CA, Sr.: Incidence of late bead loss in uncemented porous-coated cups *Clin Orthop* September 1997.

Engh CA, Culpepper WJ: Femoral fixation in primary THA. *Orthopedics*, September 1997.

Sychterz CJ, Engh CA, Jr., Shah, N, Engh, CA, Sr.: Radiographic evaluation of penetration by the femoral head into polyethylene liners measured over time. *J. Bone Joint Surg.*, July 1997.

Bugbee WD, Culpepper JC, Engh CA, Jr., Engh, CA, Sr.: Long-term clinical consequences of stress shielding in cementless total hip arthroplasty. *J. Bone Joint Surg.*, July 1997.

Kearney PR, Engh CA: History of the American health care system: its cost control programs and incremental reform. *Orthopedics*. March 1997

Engh CA, Jr., Culpepper WJ, II, Engh CA, Sr.: Long-term results of the AML Prosthesis in total hip arthroplasty. *J. Bone Joint Surg.*, February 1997

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Hooten JP, Jr., Engh CA, Heekin RD, Vinh TN: Structural bulk allografts in acetabular reconstruction: analysis of two grafts retrieved at postmortem. *J. Bone Joint Surg.*, 78B (1996).

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Dorr LD, Mallory TH, Cameron HU, Engh CA, Salvati EA, Zweymuller K. Hip challenges: What would you do? *Orthopedics* 17:864–868 (1994).

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Presentations at Professional Meetings

- Annual Advances in Arthritis & Arthroplasty Course: “My Approach to the Dysplastic Hip” “Femoral Reconstruction with Monoblock Stems” Crystal Gateway Marriott, Arlington, VA (September 2007)
- 37th Annual Arthroplasty Course: “The Fully Porous Stem at 20 years” “Keynote address: My Varied Experience with Uncemented Sockets” Hyatt Regency Cambridge, Boston, MA (September 2007)
- Summer Hip Society Meeting: “The Relationship Between Acetabular Osteolytic Lesion Volume and Polyethylene Wear in Cementless THA” Ritz Carlton Huntington Hotel, Pasadena, CA (September 2007)
- Mayo Clinic Mark B. Coventry Visiting Professor for 89th Graduation Awards: “Methods to Evaluate Pelvic Osteolysis” “30 Years of Extensively Porous Coated Stems” Rochester, MN (June 2007)
- Current Concepts in Joint Replacement: “Extensively Porous Coated Stems: Avoiding the Tinker Toys” “What Would You Do? Challenges in Hip Surgery” “Opposes-Cementless Stems in Patients Over 60: Just Say No” Rio Suite Hotel & Casino, Las Vegas, NV (May 2007)
- Depuy Mobile Plan Tour: “Long-Term Clinical Results with AML” “Bearing Surface Experience” “CT and Osteolysis” New York City, NY (March 2007)
- Engh Society Meeting: “Extensively Coated Stems” “CT and Osteolysis” Westin Hotel, St. John, US Virgin Islands (March 2007)
- American Academy of Orthopaedic Surgeons: “Primary THR: The Basics” San Diego, CA (February 2007)
- Japanese Orthopaedic Association Meeting: “Computed Tomography in the Assessment of Periacetabular Osteolysis” “The Odyssey of Porous Coated Fixation” “Outcome of Total Hip Arthroplasty Using Extensively Porous-Coated Components at 20-year Follow up” (February 2007)
- Current Concepts in Joint Replacement: “The Porous Coated Femoral Cylinder: 20 Years Onward” “Planning your Next Cup Revision: Reading Tea Leaves” Hyatt Regency Grand Cypress, Orlando FL (December 2006)
- 5th International Course in Arthroplasties: “Interpreting Osteolysis Defects” “More than 5 Year Results in Acetabular Poly Wear and Lysis with Standard vs. Highly Linked Poly” “Extensively Porous Coated Stems” Barcelona, Spain (November 2006)
- German Orthopaedic Association: “25 Years Experience using Extensively Porous Coated Stems” Berlin, Germany (October 2006)

6th Annual Mid-West Arthritis and Arthroplasty Course: "Osteolysis: Surgical Treatment" "My approach to THA in the Dysplastic Hip" Ritz Carlton Hotel, Washington DC (September 2006)

Summer Meeting of the Hip Society: "Outcome of THA using Extensively Porous Coated Components at 20-year followup" Iowa City, IA (September 2006)

DePuy Contemporary Techniques in Hip and Knee Arthroplasty: "The Extensively Coated Stem: Decades of Good Results" "Pre-operative Planning: How I do it and how does it assist me" "Polyethylene 1970 - 2006: Have we made it better?" Chicago IL (July 2006)

Harvard Grand Rounds: "Cementless Total Hip Arthroplasty" (June 2006)

Current Concepts in Joint Replacement: "Extensively Porous Coated Stems: A Choice for all Seasons" "Acetabular Fixation: Curtain Calls & Caveats" "Cementless Stems in Patients Over 60: "Just Say No!" - In Opposition" "The Revision Femur: The Fully Coated Stem" Las Vegas, NV (May 2006)

Second AORI Research Symposium: "20-Year Outcome of Porous-Coated Hip Replacements" "The Value of Computed Tomography for Imaging Total Hip Arthroplasty" (May 2006)

Stanford Grand Rounds: "Extensively Porous Coated Stems: Cementless Fixation" (May 2006)

Advanced Techniques in Total Joint Replacement: "Porous Coated Acetabular Fixation" "Subtrochanteric Osteotomy for DDH" "Extensive Porous Coating with Distal Fixation for Femoral Revision" "Extensively Porous Coated Stems: Cementless Fixation" "Primary THA: Ten Pearls" White Sulpher Springs, WV (May 2006)

2006 Master's Series: "The Anderson Clinic Experience with Old and New Polyethylene" Pasadena, CA (April 2006)

Invited Presentation at George Mason University: "Clinical Frontiers in Joint Replacement Research" (April 2006)

American Academy of Orthopaedic Surgeons Annual Meeting, Hip Society Specialty Day Meeting 2006: "Acetabular Bone Loss" Chicago, IL (March 2006)

American Academy of Orthopaedic Surgeons, Annual Meeting 2006, ICL 302: "Extensively Porous Coated Stems: Cementless Fixation" "Outcome of Total Hip Arthroplasty using Extensively Porous-Coated Components at 20-year Follow-up" ICL 323: "The Anderson Clinic Experience with Old and New Poly" "The Use of a Hole Plug Does Not Prevent Retroacetabular Osteolysis" "The Value of Plain Radiographs for Evaluating Pelvic Osteolysis" "The Temporal Progression of Pelvic Osteolysis Following Uncemented Total Hip Arthroplasty" Chicago, IL (March 2006)

Bioskills: "Pelvic Osteolysis: Diagnosis and Treatment" Alexandria, VA (February 2006)

Transforming Orthopaedics: Advances in Technology and Techniques: "Restoring Hip Anatomy with Preoperative Planning Transforming Orthopaedics" "Porous Coated Acetabular Fixation" Vail, CO (February 2006)

Current Concepts in Joint Replacement, Winter Meeting 2005: "Acetabular Cage Reconstruction: A Time and A Place" "Extensively Porous Coated Stems: A Long Time Passing" (December 2005)

Bioskills: "Pelvic Osteolysis: Diagnosis and Treatment" Alexandria, VA (December 2005)

American Association of Hip & Knee Surgeons: "The use of a hole plug does not prevent retroacetabular osteolysis" "The Value of Plain Radiographs for Evaluating Pelvic Osteolysis" (November 2005)

Brian Parsley Dinner: "25 Years Experience with the AML Femoral Prosthesis" Houston, TX (November 2005)

Taiwan Orthopaedic Association Meeting: "20 Years Experience with the AML Femoral Prosthesis" "25 Years Experience with Porous Coated Acetabular Cups" Taipei, Taiwan (October 2005)

Korean Hip Society Board Members meeting: "20 Years Experience with the AML Femoral Prosthesis" "25 Years Experience with Porous Coated Acetabular Cups" Seoul, Korea (October 2005)

35th Annual Advances in Arthroplasty Course: "The Revision Femur: The Fully Coated Stem" "Pelvic Osteolysis: Diagnosis and Treatment" Boston, MA (September 2005)

Summer Hip Society Meeting: "The Value of Plain Radiographs and CT for Managing Pelvic Osteolysis" Pittsburgh, PA (September 2005)

Contemporary Techniques in Hip and Knee Arthroplasty-DePuy meeting: "Why I Use an Extensively Coated Stem" "Assessing Acetabular and Femoral Bone Loss" "Metal on Polyethylene: The Gold Standard at the Anderson Clinic" Chicago IL (July 2005)

10th International Biolux Symposium, Bioceramics and Alternative Bearing Surfaces in Total Joint Arthroplasty: "Polyethylene Wear and Its Relationship to Pelvic Osteolysis Progression Around a Well-Fixed Socket" (June 2005)

Minnesota Arthroplasty Course: "Subtrochanteric Osteotomy for DDH" "THR: My Preferred Technique" "Osteolysis - Assessing the Problem" (June 2005)

Fellows Bioskills: "Lysis in the Well-Fixed Socket: Hold 'Em or Fold 'Em" Alexandria VA (June 2005)

Current Concepts in Joint Replacement Spring Meeting 2005: "Proximal and Extended Porous Coatings: Is There A Difference?" "Cementless Stems in Patients Over 60: "Just Say No!" - In Opposition" (May 2005)

First AORI Research Symposium: “Hip Replacement Overview” “Hip Replacement Imaging & Osteolysis” “Osteolysis Imaging Following Total Hip Arthroplasty” Alexandria, VA (May 2005)

Masters Series 2005: “The Anderson Clinic Experience with Polyethylene Bearing Surfaces” “Long-Term Results with Fully Porous Coated Cementless Stems” (April 2005)

Anne Arundel Orthopaedic Society Grand Rounds: “25 Years with Uncemented Implants” Annapolis, MD (March 2005)

American Academy of Orthopaedic Surgeons Annual Meeting, Specialty Day 2005: “Characteristics of Pelvic Osteolysis on Computed Tomography Following Total Hip Arthroplasty” (February 2005)

American Academy of Orthopaedic Surgeons Annual Meeting 2005: “Extensively Coated Femoral Stems: The Anderson clinic Experience 1977 to 2005” “Femoral Fixation Choice: Uncemented in All” “The Relationship Between Acetabular Osteolytic Lesion Volume and Polyethylene Wear in Cementless Total Hip Arthroplasty” “Fully Porous Coated Cementless Stems are Just Fine” Washington DC (February 2005)

Current Concepts in Joint Replacement Winter Meeting 2005: “Lysis in the Well-Fixed Socket: Hold 'Em or Fold 'Em?” (February 2005)

Orthopaedic Research Society, Annual Meeting 2005: “Comparison of CT and MRI in the Assessment of Pelvic Osteolysis: A Cadaveric Study” (February 2005)

CCJR: “The Revision Acetabulum: Dealing with Bone Loss” “Primary Hip Fixation: Options and Outcomes” (December 2004)

University of Maryland, Baltimore Campus Engineering Department Seminar: “Contemporary Frontiers in Joint Replacement Research” (November 2004)

Harris Hip Course: “The Relationship Between Acetabular Osteolysis and Polyethylene Wear” “Factors Influencing Wear After Total Hip Arthroplasty” Boston, MA, (September 2004)

New England Baptist Hospital Grand Rounds: “Polyethylene Wear and Pelvic Osteolysis: Diagnosis and Treatment” (September 2004)

Biomaterialien Update; Dr. Willert's 70th Birthday: “Polyethylene Wear and Pelvic Osteolysis: Diagnosis and Treatment” Germany, (August 2004)

Kentucky and Tennessee Orthopaedic Societies Meeting: “Polyethylene Wear and Pelvic Osteolysis: Diagnosis and Treatment” “Changing Trends in Surgical Approach and Bearing Surface Choice for Total Hip Arthroplasty at the Anderson Clinic 1990-2004” (August 2004)

Southern Orthopaedic Association: “20 Years of Experience using Uncemented Acetabular Cups: How have they worked?” “Polyethylene Wear and Pelvic Osteolysis: Diagnosis and Treatment” “Cementless Total Hip Arthroplasty: How do you diagnose bone ingrowth into a surface? How much bone loss? How much bone support is needed?” Hilton Head, SC (July 2004)

Mexican National Orthopaedic Meeting: “Symposium 9: Extensively Porous Coated Stems in Primary Total Hip Arthroplasty for Everyone” “Special Lecture 1: 20 Years of Experience Using Uncemented Acetabular Cups: How Have they Worked?” “Symposium 2: Polyethylene Wear and Pelvic Osteolysis: Diagnosis and Treatment” “ICL 1: Cementless Total Hip Arthroplasty: How do you diagnose bone ingrowth into a surface? How much bone loss? How much bone support is needed?” Mexico City, Mexico (May 2004)

Current Concepts in Joint Replacement: “Removing the Well-fixed Socket: Easy Out” Las Vegas, NV (May 2004)

Master's Series 2004: “Why Use a Large Head Size and Metal on Metal Bearing Surfaces??? To Lower Dislocation Rates!!!” Pasadena, CA (April 2004)

Hip Society Meeting: “Periacetabular Bone Loss with Cementless Acetabular Cups” (March 2004)

American Academy of Orthopaedic Surgeons: “Practical methods for measuring wear and osteolysis: Hip and knee” “Bone ingrowth prostheses for total hip replacement in the elderly- A potentially better method” “Polyethylene: What we’ve learned, what you can expect” San Francisco, CA (March 2004)

Hip Society Meeting: “Periacetabular bone loss with cementless acetabular cups” San Francisco, CA (March 2004)

Robert A. Robinson Lecture, Johns Hopkins University Medical School: “Management of patients with acetabular socket wear and pelvic osteolysis” Baltimore, MD (January 2004)

Advances and Techniques in Joint Replacement Surgery: “Case Presentations” “Management of patients with acetabular socket wear and pelvic osteolysis” “Primary THR-Why I use fully coated stems in everyone” Bangalore, India (January 2004)

Current Concepts in Joint Replacement: “Assessing and removing a bone ingrowth extensively porous coated stem” “Extensively porous coated stems: An accident waiting to happen” Orlando, FL (December 2003)

UCSD Grand Rounds: “THR in the young patient” “Cementless total hip arthroplasty: Bone ingrowth, bone loss, implant fixation” “Long-term porous-coated cup survivorship using spikes, screws and press-fitting for initial fixation” San Diego, CA (November 2003)

- American Association of Hip & Knee Surgeons: “Long-term porous-coated survivorship using spikes, screws and press-fitting for initial fixation” “Long-term femoral remodeling around well-fixed total hip arthroplasty” Dallas, TX (October 2003)
- Harris Hip Course: “Cementless total hip arthroplasty: Bone ingrowth, bone loss, implant fixation” Boston, MA (September 2003)
- Hip Society Meeting: “How good is the correlation between volume of polyethylene wear and volume of pelvic lysis with uncemented cups” Arlington, VA (September 2003)
- Current Concepts in Joint Replacement: “Bone ingrowth prosthesis for total hip replacement in the elderly-A potentially better method” “Lysis in the well-fixed socket: hold ‘em or fold ‘em” “Primary THR-Why I use fully-coated stems in everyone” Las Vegas, NV (May 2003)
- Jefferson Orthopaedic Society: “What we’ve learned from autopsies about fixation of porous-coated stems” “Management of patients with acetabular socket wear and pelvic osteolysis” Philadelphia, PA (May 2003)
- Minnesota Arthroplasty Course: “Management of patients with acetabular socket wear and pelvic osteolysis” “Standard Polyethylene: What we know” “Subtrochanteric osteotomy for DDH” “Primary THR-Why I use fully-coated stems in everyone” “Total hip revision arthroplasty for osteolysis: My preferred technique” Minnesota (May 2003)
- Tenth Annual Masters Series: “Is porous coating necessary for fixation of an uncemented femoral prosthesis” Pasadena, CA (April 2003)
- Duke Grand Rounds: “Management of patients with acetabular socket wear and pelvic osteolysis” Columbus, OH (April 2003)
- American Academy of Orthopaedic Surgeons: “Management of patients with acetabular socket wear and pelvic osteolysis” “Polyethylene: What we’ve learned, what you can expect” “Bone ingrowth prosthesis for total hip replacement in the elderly-A potentially better method” “Primary THR- Why I use fully-coated stems in everyone” New Orleans, LA (February 2003)
- Current Concepts in Joint Replacement: “Bone ingrowth prosthesis for total hip replacement in the elderly- A potentially better method” “The radiographic diagnosis of cup fixation, wear, lysis” “All polyethylene’s are not the same: An in vivo appreciation” Orlando, FL (December 2002)
- Annual Julius Neviasser Memorial Lecture: “Postoperative radiographic evaluation of total hip replacement patients (loosening, wear, lysis)” Washington, DC (November 2002)
- American Association of Hip and Knee Surgeons, Annual Meeting: “The relationship between polyethylene wear and osteolysis in a second-generation porous-coated cementless cup with 7 years follow-up” “The accuracy of computer tomography in determining location and size of pelvic osteolytic lesions following total hip arthroplasty: a cadaver study.” Dallas, TX (November 2002)

Grand Rounds, Brigham and Women's Hospital: "Osteolysis: A silent disease requiring early intervention?" Boston, MA (October 2002)

Hellenic Association of Orthopaedic Surgery and Traumatology: "Long-term results of the AML stem" Thessaloniki, Greece (October 2002)

Hilton Head Symposium: "Wear and Lysis" Hilton Head, NC (October 2002)

Harris Hip Course: "Bone grafting is unnecessary for femoral revisions" "Is modularity necessary for modern uncemented cups?" Boston, MA (October 2002)

Hellenic Association of Orthopaedic Surgery and Traumatology: DePuy meeting: "What we've learned about PE—all are not the same" Greece (October 2002)

DePuy Golf Meeting and Brigham and Women's Hospital, Grand Rounds: "Osteolysis: A Silent Disease Requiring Early Intervention?" Hilton Head, SC and Boston, MA (October 2002)

First Annual Samuel A. Sue Jr., Orthopaedic Day: "Osteolysis: A silent disease requiring early intervention?" "Detection and treatment of osteolysis in total hip arthroplasty" Greensboro, NC (September 2002)

Senior Hip Society Meeting-Scientific Session: "Polyethylene: What we've learned, what you can expect" Lake Minnetonka, MN (September 2002)

Hip Society Meeting, Summer Scientific Meeting: "The value and accuracy of radiographs and CT in the diagnosis of pelvic osteolysis" Rochester, MN (September 2002)

Launch Meeting for the AML, DePuy: "The history of the AML" Atlanta, GA (September 2002)

Contemporary Techniques in Total Hip and Knee Arthroplasty: "Bearing surface: Cross-linked polyethylene: Pros and cons, Early data" "The case for a fully-coated uncemented stem in primary THA" Nisswa, MN (June 2002)

Contemporary Techniques in Orthopaedics: "What we have learned about polyethylene: All polyethylenes are not the same—an in vivo appreciation" Mayo Clinic, MN (June 2002)

International Hip Society: "Minimum 15 years follow-up, AML stem" Baveno, Italy (June 2002)

The Rose Medical Center: "Polyethylene Wear Data" "Extensively Porous Coated Results" Denver, CO (June 2002)

American Academy of Orthopaedic Surgeons, Annual Meeting: "What we have learned about long-term fixation from human retrievals using cementless stems" Dallas, TX (June 2002)

Current Concepts in Joint Replacement: “Extended porous coating: The more, the merrier” “Socket retention or removal: the dilemma of choice” Las Vegas, NV (May 2002)

Orthopaedics Today/DePuy Orthopaedics Symposium: “Extensively coated implants: A historical perspective” “Anthropometrics and Biomechanics” Tucson, AZ (April 2002)

Masters Series, Larry Dorr’s Course: “Current use bearing surfaces THR” and “Polyethylene” “Polyethylene: What we’ve learned, what you can expect” Los Angeles, CA (April 2002)

Controversies in Total Knee, Hip and Shoulder Replacement: “Fully coated non-cemented stem—The Gold Standard” New York, NY (April 2002)

American Academy of Orthopaedic Surgeons, Annual Meeting: “Total hip replacement in the young patient” “So many options: What’s best for my patients?” Dallas, TX (February 2002)

American Association of Orthopaedic Surgeons, Annual Meeting: “What we have learned about long term fixation from human retrievals using cementless stems” Dallas, TX (February 2002)

Current Concepts in Joint Replacement: “The revision femur: A potpourri of options” “Extensively porous coated stems” Orlando, FL (December 2001)

American Association for Hip and Knee Surgeons Annual Meeting: “Fractures of the greater trochanter induced by osteolysis with the AML prosthesis” Dallas, TX (November 2001)

American Association for Hip and Knee Surgeons Annual Meeting: “Pattern of osteolysis around two cementless metal-backed cups—A retrospective radiographic analysis with minimum 10-year follow-up” Dallas, TX (November 2001), DePuy Meeting: Vail, CO (February 2001)

American Association for Hip and Knee Surgeons Annual Meeting: “Long-term effects of polyethylene sterilization by gamma-irradiation on in vivo wear performance” Dallas, TX (November 2001)

American Association for Hip and Knee Surgeons Annual Meeting: “Late Increases in Marginal Wear Rates among Gamma-irradiated Polyethylene Liners Implanted for a minimum of 10 years”, “A Clinically Practical Method of Manually Assessing Polyethylene Liner Thickness”, “Interobserver and Intraobserver Variability in Assessing Osteolysis Radiographically”, Dallas, TX (November 2001)

38th National Congress of the Spanish Society of Orthopaedic Surgery and Traumatology (SECOT): “Long-term results with the Anatomic Medullary Locking Prosthesis” Bilbao, Spain (October 2001)

Fall Hip Course 2001: “A New Era in THA—The Era of the Big Head” Cambridge, MA (October 2001)

Stryker-Howmedica Meeting: “Holes are ‘okay’—The pattern of osteolysis around two different cementless metal-backed cups with and without holes”, “Long-term results with the Anatomic Medullary Locking Prosthesis” Seville, Spain (September 2001)

Inova Joint Replacement Center Total Hip Replacement Seminar: “Outcomes in total hip arthroplasty: Long-term results using the Anatomic Medullary Locking Prosthesis” Alexandria, VA (May 2001)

American Academy of Orthopaedic Surgeons Hip Society Meeting: “20-years experience with extensively coated AML” San Francisco, CA (March 2001)

American Academy of Orthopaedic Surgeons Polywear and Osteolysis Symposium: Revision THA for wear and lysis: Options and results” San Francisco, CA (February 2001)

American Academy of Orthopaedic Surgeons Annual Meeting, Hip Specialty Day: “20-Year AML Experience, San Francisco, CA (February 2001)

American Academy of Orthopaedic Surgeons Annual Meeting: “Restoration of Femur?” “Hip Replacement Options for the Young Adult,” An Instructional Course, “DDH Outcome” “A single center’s experience with porous-coated cups” San Francisco, CA (February 2001)

American Academy of Orthopaedic Surgeons Technology 2001 Symposium: “Conventional UHMWPE: A gold standard of sorts”, “Alternative Bearing Surfaces—The Good, Bad and Ugly” San Francisco, CA (January 2001)

American Association for Hip and Knee Surgeons Annual Meeting: “Effect of Acetabular Modularity on Polyethylene Wear and Osteolysis in Total Hip Arthroplasty, “ Dallas, TX (November 2000)

Harvard Medical School, Total Hips 2000: The Millennium Course: “Spontaneous fractures of the greater trochanter”, “Osteolysis with the AML at minimum 10-year follow-up” Boston, MA (September 2000)

New England Orthopedic Society Spring Meeting: “Polyethylene Wear with First- and Second-Generation Uncemented Prostheses,” Bone Remodeling Around Porous-Coated THR,” Manchester, VT (June 1998).

American Academy of Orthopaedic Surgeons Meeting on Current Issues and Controversies in Hip and Knee Arthroplasty: “Revision with Noncemented Prostheses.” Washington, DC (May 1998).

Nepal Orthopaedic Association: “Concerns with the Use of Extensively Porous-Coated Femoral Components (April/May 1998).

DePuy THA Meeting: “Trends in Total Hip Arthroplasty,”Phuket, Thailand (April 1998).

Kaiser Hip Implant Meeting: “Orthopaedic Outcomes of Total Hip Arthroplasty,” Palm Springs, FL (April 1998).

University of Southern California Masters Series: “Leg Lengths in Total Hip Replacement” “Bone Ingrowth Should Always be Used in Total Hip Surgery—Debate in the Affirmative,” Pasadena, CA (April 1998).

American Association of Hip and Knee Surgeons Combined Open Meeting: “My Concerns with Extensive Porous Coating,” New Orleans, LA (March 1998).

American Academy of Orthopaedic Surgeons Annual Meeting: “Hybrid THR: A Step Forward or Sideways? Controversies in the Fixation of the Acetabular Component,” An Instructional Course, New Orleans, LA (March 1998).

Annual Hip and Knee Meeting: “Differences in Wear Rates of Different Modular Cups, “Use of an Extensively Porous Coated Implant in the Elderly,” “Stress Shielding: Is it a Clinical Problem?” Vail, CO (January 1998).

Issues In Orthopaedics: Clinical Results and Outcomes Meeting (DePuy): “The Acetabular Component: Performance of a Second-Generation Cementless Cup,” “Obtaining Long-Term Fixation: Preoperative Planning.” Snowmass, CO (January 1998).

Current Concepts In Joint Replacement: “Porous Coated Fixation: An Alternative for the Elderly” “Cemented Arthroplasty in the Young: A Quality Choice--In Opposition.” Orlando, FL (December 1997).

Colombian Orthopaedic Surgeons Meeting: “Bone Remodeling in THR,” “Revision of Failed Uncemented Hips,” “10-Year Results of the AML Prosthesis,” “Preoperative Planning for Primary and Revision THR,” Bogota (October 1997).

At Issues: Cemented vs. Cementless Arthroplasty: “Acetabular Fixation,” “Femoral Fixation,” “Special Technical and Design Considerations.” Chicago, IL (October 1997).

Techniques and Science for Successful Joint Arthroplasty: “Role of Cementless Fixation of the Cup and Stem: Risks vs. Benefits,” “Wear Data on Porous Coated Acetabular Components from Different Manufacturers: The Author’s Personal Experience” Burlington, VT (October 1997).

AAOS Summer Institute: “Failure Mechanisms of Cementless THA,” “Surgical Approaches for Revision THA,” “Why I Use a Fully Coated Stem” Washington, DC (September 1997).

Japan Orthopaedic Association: “Long-Term Results of the AML,” “Stress Shielding” Sapporo, Japan (June 1997).

Current Techniques in Total Joint Arthroplasty: "Design Issues in Reducing Osteolysis"
"Proximal vs. Extensive Porous Coating in Primary Cementless THA." New York,
NY (May 1997).

Current Concepts in Hip Trauma and Reconstructive Surgery: "Femoral Fixation: The
Case for Porous Coating," "Acetabular Fixation: Cemented (Metal-Backed vs. All
Poly," "Osteonecrosis: Treatment by THR." Tarrytown, NY (May 1997).

Masters Series (Dr. Dorr): Revision Surgery Case, "Cemented vs. Noncemented Socket:
Noncemented Side." Pasadena, CA (May 1997).

Charlotte Hip Symposium: "Patterns of Poly Wear with Uncemented Cups," Long-Term
Results of Extensively Coated Stems," "Results of Revision THA of Failed Porous
Coated Stems." Charlotte, NC (April 1997).

Changing Issues in Orthopaedics: "Leg Length Discrepancy," "Extensive Coating at 20
Years." Squaw Valley, CA (March 1997).

Hip Society Meeting: "Options for Primary Femoral Fixation in THA: Distal Fixation."
San Francisco, CA (February 1997).

AAOS Annual Meeting: "Revision THA: Controversies in Fixation of the Stem"; "
Hybrid THR: A Step Forward or Sideways?" "Controversies in the Fixation of the
Acetabular Component." San Francisco (February 1997).

AAOS Comprehensive Hip and Knee Course: "Controversies and Complications in
Primary THR: Current Techniques-Fully Coated Prostheses" "Techniques and
Results in Revision Surgery: Indications, Techniques, and Results of Extensively
Coated Femoral Components"; "Management of the Painful Hip That Appears Well-
Fixed." Phoenix, AZ (January 1997).

Current Concepts in Joint Replacement: Eleventh Annual Meeting: "Porous-Coated
Fixation Now and Forever," and "Distal Porous Coating Yields Optimal Fixation."
Orlando, FL (December 1996).

North Carolina Orthopaedic Associates Meeting: "Porous-Coated Total Hip
Replacement: 10- Year Results." Charlotte, NC (October 1996).

Jefferson Orthopaedic Society. "Femoral Bone Remodeling" and "Acetabular Polywear."
Philadelphia, PA (November 1996).

Hip Society Summer Meeting: "Indications, Techniques and Results of Extensively
Coated Femoral Components." Eugene, OR (September 1996).

Engh Orthopaedic Society Reunion: "Current Concepts and Trends in THA."
Alexandria, VA (September 1996).

Jefferson Orthopaedic Society: Temple University Lecture. Philadelphia, PA (May
1996).

AAOS Comprehensive Hip and Knee Course. New Orleans, LA (April 1996).

UCLA Residents and Los Angeles Orthopaedists Meeting: "Techniques in Arthritis Surgery." Los Angeles, CA (April 1996).

AAOS: "Osteolysis: Clinical Manifestations and Management," Revision THA: Controversies in Stem Fixation." "Acetabular Design." Atlanta, GA (February 1996).

Jefferson Orthopaedic Society: Jones/Korn Lecture: "Bone Adaptation to a Hip Prosthesis." Philadelphia, PA (February 1996).

Current Concepts in Joint Replacement: Tenth Annual Meeting: "Cementless Sockets: A Gold Standard," "New Polymers for Old." Orlando, FL (December 1995).

Brazilian Hip and Knee Society Meeting: "Bone Remodeling," "Noncemented Revision: Femoral Side." Rio de Janeiro, Brazil (December 1995).

Gottingen Hip Course: Noncemented Revision of Failed Hip Endoprostheses with Large Bone Defects: "Minimum 2-Year Follow-Up Results of S-ROM Oblong Acetabular Component," "Revision Results with the AML Femoral Prosthesis." Gottingen, Germany (November 1995).

Southern Medical Association: "Management of Osteolysis in THA," "Bone Remodeling in Cementless THA." Kansas City, MO (November 1995).

Columbia Orthopaedic Group Meeting: "Preoperative Planning for THA," "Bone Remodeling After Cementless THA," "Long-Term Results of the AML." Columbia, MO (November 1995).

Revision Hip and Knee Arthroplasty: The Cost Equation: "Long-Term Results of the Proximal-Coated Implant," "Bone Grafts: Do They Work?" Hilton Head, SC (September 1995).

International Society for Technology in Arthroplasty: "Bone Remodeling." Puerto Rico (September 1995).

Canadian Orthopaedic Association Hip Conference: "Primary THR: Past, Present, and Future," "Principles of Revision THR." Toronto, Ontario (August 1995).

American Orthopaedic Association Meeting: "A Comparison of Proximally and Extensively Coated AML Prostheses." White Sulphur Springs, WV (June 1995).

Reconstruction of the Arthritic Hip and Knee: "Design and Commercial Issues: Failure of THA Stress Shielding, Is it Preventable?" "Hip Reconstruction (Primary): Femoral Options," "Revision Hip Arthroplasty: Acetabular Options," "Revision Hip Arthroplasty: Femoral Options." Charleston, SC (June 1995).

Southern Medical Association Current Concepts in Orthopaedics: "Resorptive Bone Remodeling after THA." Baltimore, MD (May 1995).

Alabama Orthopaedic Society Annual Meeting: “Ten-Year Follow-Up of Primary THA using the AML,” “Revision THA Symposium,” “What I Have Learned about THA from Autopsy Retrieval Studies.” Point Clear, AL (May 1995).

Masters Series: Techniques in Arthritis Surgery: Operating Surgeon: femoral revision surgery, Moderator: primary total hip replacement, “Management of THR Postoperatively,” “Current Results and Techniques in Bone Ingrowth (Femur),” “Revision of the Femur.” Pasadena, CA (April 1995).

Columbia Orthopaedic Hall of Fame Meeting: “What We Have Learned from Autopsy Retrieval Studies,” “Ten-Year Follow-Up of Primary Total Hip Replacement.” Columbia SC (April 1995).

AAOS: Issues in Hip & Knee Arthroplasty: “Bone Loss Due to Stress Shielding,” “Long-Term Results: Noncemented Total Hip Arthroplasty,” “Fully Coated Ingrowth Prosthesis in Uncemented THA: Rationale and Results,” “Indications, Techniques, and Results of Extensively Coated Femoral Components.” Washington, DC (March 1995).

Outcomes in Orthopaedics: “Long-Term Results of the AML,” “Stress Shielding: Cement vs. Cementless,” “Bone Grafts—Do They Work?” Squaw Creek, CA (March 1995).

Kevin Dowling Lectureship: “The Value of Clinical Research in a Managed Care Environment,” “Information about THA Obtained from Autopsy Retrieval Studies,” “Resorptive Bone Remodeling after Total Hip Arthroplasty.” Hartford, CT (March 1995).

Northeast Florida Orthopaedic Society Meeting: “Distal Cementless Fixation.” Jacksonville, FL (February 1995).

Hip Society Meeting: “Acetabular Revision: Autopsy Retrieval Studies.” Orlando, FL (February 1995).

American Academy of Orthopaedic Surgeons Annual Meeting: Instructional Course Lecture, “Distal Cementless Fixation”; Paper #383 “Long-Term Results of Sub-Optimally Fixed AML Prostheses”; Discussed Papers #373–375. Orlando, FL (February 1995).

Tenth Annual Current Concepts in Joint Replacement: “Porous-Coated Fixation: A Rite of Passage,” “Cementless Components: Optimums and Outcomes.” Orlando, FL (December 1994).

Italian Orthopaedic Society Meeting—Cementless Arthroplasty Symposium: “Long-Term Clinical Results of the AML.” Florence, Italy (November 1994).

Revision Hip and Knee Arthroplasty: “Algorithm for Planning Revision Surgery of the Deficient Femur.” Scottsdale, AZ (October 1994).

Hip and Knee Arthroplasty Course: "AML New Stem Concept," "Wear and Lysis AML Acetabular Component," "Long Straight Stem Revision." Wayne State University, Detroit, MI (October 1994).

Brazilian Orthopaedic and Traumatology Congress: "Stress Shielding and Osteolysis," Live total hip arthroplasty. Bahia, Brazil (October 1994).

Charnley Era Meeting: "Experience with AML Total Hip Replacement." Wrightington, England (October 1994).

AAHKS Fourth Annual Fall Meeting: "Comparison of Clinical Results with Proximally and Extensively Porous-Coated AML Prostheses." Washington, DC (September 1994).

Practical Approaches to Cost Containment: Surgical Solutions for You and Your Administrator: "How I Plan for Cementless Hip Arthroplasty," "Porous Coating Forever: 15-Year Results of the AML Prosthesis," "Extensive Fixation Will Solve the Problem: Long-Term Results of the Solution Stem." Austin, TX (September 1994).

Design & Materials Issues: Considerations in Implant Selection: "X-Ray Evaluation and Templating," "Surgical Technique, the Femur," "Postoperative Evaluation," "Long-Term Results of the AML," "Preliminary Results of the Prodigy." Cincinnati, OH (September 1994).

National Institutes of Health Consensus Development Conference on Total Hip Replacement: "Cementless Total Hip Arthroplasty Outcomes: Extensively Porous-Coated Implants." Bethesda, MD (September 1994).

The Bowman Gray School of Medicine Grand Rounds: "Preoperative Templating for Primary and Revision Surgery," "Long-Term Results with the AML." Winston-Salem, NC (September 1994).

Orthopaedic Surgeons in the Triad Meeting: "Long-Term Results of the AML Prosthesis." Greensboro, NC (August 1994).

Shinshu Seikei Seminar: "What We Have Learned from Autopsy Retrieval of Fully Porous-Coated Prostheses," "Long-Term Results of Revision Total Hip Arthroplasty Using a Cementless Fully Porous-Coated Prosthesis." Matsumoto, Japan (July 1994).

New Developments in Total Joint Reconstruction: "Cemented and Cementless Acetabulum: Long-Term Effects," "Skeletal Biology in a Distally Fixed Femoral Component," "Cementless Revision Arthroplasty," "Allografting the Acetabulum: Decision Making and Techniques." Orlando, FL (June 1994).

Northwestern University Medical School Grand Rounds: "Long-Term Results of the AML." Chicago, IL (June 1994).

Central DuPage Hospital Learning Center: "Primary and Revision Surgery (Moderator)." Chicago, IL (June 1994).

AAOS: New Techniques and Technology in THR: "Distal Ingrowth Fixation," "Robotics and Customization: The Problems Being Addressed by This Technology," "Bypass Fixation." San Francisco, CA (May 1994).

International Hip Society: "Cementless Femoral Results: AML Experience," "Femoral Lysis in Primary THR After Minimum Follow-Up of Five Years: AML Experience," "Cementless Acetabular Results: AML Experience," "Primary Cementless THR in Patients Aged Fifty Years or Less," "Cementless Femoral Revision: AML Results." Boston, MA (May 1994).

Charlotte Hip Symposium: "Long-Term Results with Porous-Coated Femoral Components," "Femoral Osteolysis," "Fully Porous-Coated Femoral Components in Revision Total Hip Arthroplasty." Charlotte, NC (April 1994).

Techniques in Arthritis Surgery: A Live Interactive Video Symposium: "Primary Non-Cemented With Fully Porous-Coated Stem (Operating Surgeon)" "Posterior Stabilized Cemented Knee Revision (Moderator)." Pasadena, CA (April 1994).

Issues in Orthopaedic Technology: "Preoperative Assessment to Restore Hip Biomechanics," "Twelve Year Results, Radiographic and Statistical Findings," "Long-Term Radiographic Assessment of Cemented and Cementless Acetabular Components Used with the AML Stem," "Radiographic and Histologic Analysis of Acetabular Bone Grafts in Cementless THA." Keystone, CO (April 1994).

Technological Developments to Reduce Wear and Enhance Longevity: "Long-Term Results of the AML," "Revision THA Results: The Femur." Breckenridge, CO (March 1994).

Tulane University Medical Center Grand Rounds: "Fifteen Years of Experience with Porous-Coated Implants." New Orleans, LA (March, 1994)

Hip Society Meeting: "Cementless Femoral Components Should Be Made of Cobalt Chrome." New Orleans, LA (February 1994).

Instructional Course Lectures: "Distal Cementless Fixation of the Stem," "Osseointegration of Metal and Remodeling Results with Distal Cementless Fixation." New Orleans, LA (February 1994).

1994 AAOS Annual Meeting: "Light Microscopic Histology of Femora Containing AML Prostheses," "Failure of Structural Acetabular Allografts in Cementless Revision THA," "Hip Arthroplasty in the Young Patient: Social and Economic Impact," "Histologic Analysis of Acetabular Bone Grafts," "Revision THA: Long-Term Results without Cement," "Radiographic Assessment of Osteolysis Around THA Using a Cementless Femoral Component." New Orleans, LA (February 1994).

AAOS Reconstruction of the Adult Hip: “Cementless Fixation: Osseointegration and Remodeling,” “Femur: Recent Advances in Cementless Fixation,” “Cementless Removal in Revision Hip Arthroplasty.” Maui, Hawaii (January 1994).

University of Hawaii Grand Rounds: “Long-Term Results of the AML” Honolulu, Hawaii (January 1994).

Allegheny General Hospital Grand Rounds: “Outcome of Total Hip Replacement Using Cementless Components.” Pittsburgh, PA (January 1994).

Current Concepts in Total Joint Replacement: “Porous-Coated Fixation ‘Forever,’” “Video: Cementless Revision for Femoral Failure,” “Evaluative Techniques in Total Hip Arthroplasty.” Orlando, FL (December 1993).

New Jersey Medical School Grand Rounds: “Prodigy Design Rationale,” “Preoperative Planning and Technique for Implant Fixation,” “Long-Term Results of the AML.” Newark, NJ (December 1993).

1993 Bristol Myers Squibb/Zimmer International Orthopaedic Symposium: Revision Total Hip Replacement: “Clinical Results of Revision Surgery: Are We Doing Better with Cementless Components.” Chicago, IL (November 1993).

AAOS Faculty Hip Course: “Femoral Revision with Cementless Porous-Coated CoCr Stems,” “Long-Term Results of Primary Cementless Porous-Coated THR.” San Diego, CA (October 1993).

The Hilton Head Revision Meeting: “Classification and Treatment of the Deficient Femur,” “Bone Loss—How Do I Get the Components Out?” Hilton Head, SC (October 1993).

Emory School of Medicine Grand Rounds: “Histologic and Radiographic Assessment of Well-Functioning Porous-Coated Acetabular Components: A Human Postmortem Retrieval Study.” Atlanta, GA (October 1993).

Atlanta Orthopaedic Society: “Long-Term Results of the AML.” Atlanta, GA (October 1993).

The Hip Society Summer Meeting: “Clinical Results of THA in the Young Patient.” Detroit, MI (October 1993).

Fall Hip Course on Total Hip Replacement: “Cementless Stem Removal—Fully Porous Coated,” “AML in Femoral Reconstruction Techniques,” “AML Femoral Revision Results,” “Incidence of Osteolysis in the AML.” Cambridge, MA (September 1993).

New England Baptist Hospital Grand Rounds: “Ten-Year Results of the AML.” Boston, MA (September 1993).

Experience with Today’s Hip and Knee Replacement Technology: “Preoperative Assessment to Restore Proper Hip Biomechanics,” “Long-Term Results—How Do They Compare with Cemented Hips?” “Ten-Year+ Results/Radiographic and

Statistical Findings (Femoral and Acetabular Components).” San Diego, CA (September 1993).

International Hip Society: “Biomechanical, Radiographic, and Histologic Investigation of THA: A Study of Postmortem Retrieved Specimens,” “Ten-Year Results in Extensively Coated AML Prostheses,” “Cementless Results in the Young Patient,” “Cementless Femoral Revision,” “Osteolysis in Extensively Coated Cementless THR.” Fukuoka, Japan (August 1993).

Sales Training Meeting (DePuy): “Design Rationale of the Prodigy System,” “Extra-Large Stature Case Presentation and Small Case Presentation: 2-Year Follow-Up.” Chicago, IL (July 1993).

Tenth Annual International Symposium—New Developments in Total Joint Reconstruction: “Preoperative Templating and Postoperative Radiographic Analysis Using a High Resolution Computerized Technique,” “Evaluation of Tissue Ingrowth into Well-Functioning Porous-Coated Femoral Components Retrieved Postmortem,” “Outcomes Assessment of Revision Hip Surgery.” Lake Tahoe, NV (June 1993).

AOA 106th Annual Meeting: “Failure of Structural Acetabular Grafts in Cementless Total Hip Arthroplasty.” Coronado, CA (June 1993).

Third British Course on Revision Surgery: “Bone Loss in Cementless Hip Replacement,” “Long-Term Results of Cementless Revision Total Hip Replacement.” England (June 1993).

AAOS Hip Course: “The Case for Fully Porous-Coated Implants,” “The Case for Use of Cementless Fully Porous-Coated Implants in Revision Total Hip Replacement.” Boston, MA (April 1993).

Orthopaedic Update (DePuy): “Preoperative Assessment to Restore Proper Hip Biomechanics,” “Fourteen Years+ Results/Radiographic and Statistical Findings/ Femoral and Acetabular Components.” West Palm Beach, FL (April 1993).

1st European Congress of Orthopaedics, Combined Meeting of the Societies of Orthopaedic and Traumatologic Surgery: “Roentgenographic Evaluation of the AML Porous-Coated Acetabular Component,” “Quantity of Bone Ingrowth into Porous-Coated Acetabular Components Retrieved Postmortem,” “Evaluation of Stress Shielding in 1/3 and 4/5 Coated Femoral Implants.” Paris, France (April 1993).

Pennsylvania Orthopaedic Society 1993 Spring Meeting: “Results of Primary Cementless Femoral Components,” “Results of Revision Total Hip Replacement Using a Cementless Fully Coated Prosthesis.” Bermuda (April 1993).

Orthopaedic Implant Technology Seminar: “Preoperative Assessment to Restore Hip Biomechanics,” “Eleven Years and Results/ Radiographic and Statistical Findings.” “Primary Eleven Year Clinical Results for a Cementless Acetabular Component,” “Revision Hip: The Femur—Nine Year Clinical Results.” Keystone, CO (March 1993).

State of the Art in Total Hip and Knee Replacement 1993: Technological Development to Reduce Wear and Enhance Implant Longevity: "Difficult Primary Femoral Fixation Cases," Revision of the Femur: Distally Fixed Implants." Breckenridge, CO (March, 1993)

AAOS Annual Meeting: "Evaluation of Bone Growth into Proximal and Extensively Porous-Coated AML Prostheses Retrieved at Autopsy;" "Severe Pelvic Osteolysis: A Complication of Cementless Acetabular Replacement." San Francisco, CA (February 1993).

23rd Annual Meeting of the Japanese Research Association for Total Joint Replacement: "Quantification of Implant Micromotion, Strain Shielding, and Bone Resorption with Porous-Coated Anatomic Medullary Locking Femoral Prostheses." Tokyo, Japan (February 1993).

AFIP/ARP Orthopedic Pathology Course: "Surgical Approach to Bone Lesions." Bethesda, MD (January 1993).

Dr. Seth Greenwald's Course: Eight Current Concepts in Joint Replacement Symposium: "Porous-Coated Fixation "Forever," "What Would You Do? Challenges in Hip Surgery, Revision of Failed Cementless Hip Arthroplasty." Orlando, FL (December 1992).

Harvard Combined Orthopedic Surgery Service Grand Rounds. Brigham and Women's Hospital, Boston, MA (December 1992).

Meeting of the Argentine and Latin American Orthopaedic Societies: "Long-Term Results of Total Hip Revision Using Extensively Porous-Coated Stems," and "Ten years Follow-up of Total Hip Arthroplasty." Buenos Aires, Argentina (December 1992).

Central DuPage Hospital Learning Center: "Templating for Revision Surgery;" and "Long-Term Clinical Outcome of Cementless Revision Total Hip Replacement." Chicago, IL (November, 1992)

Issues in Orthopaedic Implant Technology: "Surgical Technique of a Fully Porous-Coated Component;" "Long-Term Clinical Results for a Cementless Acetabular Component," "Preoperative Planning;" "Twelve Year Results;" and "Long-Term Clinical Results of Revised Acetabular Components." Palm springs, CA (November 1992).

Bristol Myers Squibb/Zimmer Symposium: "Biologic, Material and Mechanical Response to Prosthetic Joint Replacement: Current Concepts and Future Direction;" and "The Interface, Uncemented Devices: Clinical Experience." San Antonio, TX (October 1992).

Pemberton Memorial Lectureship, Philadelphia Rheumatism Society: "The Current State of Total Hip Replacements." Philadelphia, PA (October 1992).

Controversies in Hip and Knee Arthroplasty: “Porous Coating—Extensive,” “Evaluation and Management of Stress Shielding,” and “Management of Bone Defects of the Acetabulum.” Baltimore, MD (October 1992).

Grand Rounds at the University of Pennsylvania. “Quantification of Implant Micromotion, Strain Shielding, and Bone Resorption with Porous-Coated AML Cementless Femoral Prostheses Retrieved at Autopsy;” and “Long-Term Results of Primary Total Hip Replacements with the Use of the AML Prosthesis.” Philadelphia, PA (October 1992).

Hip and Knee Reconstructive Surgery. “Proximal Femoral Bone Loss and AML.” Rancho Mirage, CA (October 1992).

COA Arthritic Hip and Knee Symposium. Results: “Cementless Total Hip Replacement and Stress Shielding.” London, Canada (October 1992).

The Fourth Annual Conference Techniques and Science for Successful Joint Arthroplasty. “Amount of Fixation vs. Micromotion and Amount of Fixation vs. Bone Remodeling.” Burlington, VT (October 1992).

The Eighth Annual Review Update in Adult Orthopaedics. “Surgical Technique and Long-Term Results with the AML Prosthesis in Primary Total Hip Arthroplasty,” and “Cementless Femoral Revision.” Montreal, Canada (October 1992).

Dr. William Harris’ Fall Hip Course. “AML: Proximal vs. Extensively Porous-Coated Stems,” “Clinical Experience of the AML at 9 Years,” “Total Hip Replacement: AML in Younger Patients,” “Assessment of Well Functioning Porous-Coated Acetabular Components: A Human Postmortem Retrieval Study,” and “Current Results of Femoral Revisions Using the AML Prosthesis.” Boston, MA (September 1992).

The Hip Society Summer Meeting. “Analysis of Bone Ingrowth in the Extensively Coated Acetabular Component.” Indianapolis, IN (September 1992).

The Ninth Combined Meeting of the Orthopaedic Associations of the English-Speaking World. Hip Surgery ICL Series—Combined Meeting: “Revision of the Failed Cemented Hip Replacement: Cement Again or Cementless?” “Long-Term Results using Cementless,” and “Revision of the Failed Cemented Hip Replacement—Cement Again or Cementless.” Toronto, Canada (June 1992).

Charlotte Hip Symposium: “10-Year Results with a Porous Femoral Component.” Charlotte, NC. (May, 1992)

International Hip Society Closed Meeting: “Quantification of Implant Micromotion, Stress Shielding, and Bone Resorption with Porous-Coated AML Femoral Prostheses,” and “Histological Evaluation of Bone Ingrowth into Porous-Coated Acetabular Components Retrieved Postmortem.” Bern, Switzerland (May 1992).

4th World Biomaterials Congress-Noncemented Hip and Knee Prostheses: “AML Total Hip Endoprosthesis.” Berlin, Germany (April 1992).

Annual Meeting of Association of Bone and Joint Surgeons: “Quantification of Implant Micromotion, Stress Shielding, and Bone Resorption with Porous-Coated AML Femoral Prostheses.” Williamsburg, VA (April 1992).

Current Issues and Solutions in Revision Hip Arthroplasty: “Pre-operative Planning and Long-Term Results of Revision of the Acetabulum.” Sannibel Island, FL (April 1992).

Orthopaedic Implant Technology: “Pre-operative Assessment to Restore Proper Hip Biomechanics, How Do They Look? How do they compare With Hips?” “Surgical Technique,” “Eight Year Long-Term Results,” “Six-Year Results of Revised Acetabular Components—How Long Will They Last?” Breckenridge, CO (March 1992).

State-of-the-Art in Hip and Knee Replacement 1992: Technological Developments to Reduce Wear and Enhance Implant Longevity. “A Case for Distally Fixed Implants” and “Fully Coated Implant in Revision and AML.” Breckenridge, CO (March 1992).

Contemporary Orthopaedics Symposium: “Use of Coatings on Hip Prostheses.” Washington, DC (February 1992).

Orthopedic Special Edition, Round Table Discussion: “Primary Hip Arthroplasty.” Washington, DC (February 1992).

59th American Academy of Surgeons Annual Meeting Instructional Course Lecture: “Total Hip Revision.” Washington, DC (February 1992).

6th Annual Vail Course: “Extensively Coated Femoral Component: 10-Year Results,” “Roentgenographic Evaluation of AML Acetabular Component: 6 Year Follow-Up,” and “Results of Revision Total Hip Arthroplasty Using Extensively Coated Femoral Components.” Vail, CO (January 1992).

Interface Options Satellite Course: “Cement Interface and Press-Fit Options.” Boston, MA (January 1992).

University of Texas Southwestern Medical School, Grand Rounds: “Cortical Bone Loss Secondary to Stress Shielding.” Dallas, TX (1991).

Union Memorial Hospital, Grand Rounds: “Ten-Year Results for Cementless Total Hip Replacement and Stress Shielding—Clinical Studies.” Baltimore, MD (1991).

9th Annual International Symposium-New Developments in Total Joint Reconstruction. Bone Biodynamics: “Cementless Femoral Component Fixation,” “Cementless Total Hip Replacement: Long-Term Results, Femoral and Acetabular Components,” and “Cementless Revision of Femoral Component.” San Diego, CA (August 1991).

21st Annual Course on Total Hip Replacement: “Experience With the Fully Porous-Coated AML Prosthesis Prior to 1983—Series 1,” “Experience with the 40% Porous-

Coated AML Prosthesis—Series II,” “Roentgenographic Evaluation of Porous-Coated Acetabular Components Greater Than Six Years After Implantation,” “Experience with Extensively Porous-Coated AML Prosthesis Between 1983 and 1987—Series III,” “Removal of Extensively Porous-Coated Femoral Hip Stems,” and “Revision of Femoral Total Hip Arthroplasty Utilizing Porous-Coated Stems.” Harvard Medical School, Boston MA (1991).

Extensively Porous-Coated Femoral Hip Stems,” and “Revision Femoral Total Hip Arthroplasty Utilizing Porous-Coated Stems.” Harvard Medical School, Boston, MA (1991).

The Hip Society: “Radiographic Changes as a Result of Stress Shielding with Fully Porous-Coated Femoral Implants.” New York, NY (1991).

American Academy of Orthopaedic Surgeons National Meeting: “Current Results of Total Hip Revision and the Mechanisms of Failure.” Washington, DC (1991).

The Revision Hip Summit: “Difficult Primary Acetabular Arthroplasty in the Young Adult,” and “Evaluation of Initial Surface Apposition in Porous-Coated Acetabular Components.” Williamsburg, VA (1991).

The Hokkaido Orthopaedic Society: “AML Cementless Total Hip Arthroplasty: Design Rationale,” and “Surgical Technique and Current Topics.” Sapporo, Japan (1991).

The Second International Symposium of Cementless Total Joint Reconstruction: “The Case for Bone Ingrowth,” “Preoperative Planning and Surgical Technique in Porous-Coated Hip Replacement,” “Long-Term Results of Porous-Coated Hip Replacement,” and “Principles and Results of Revision Hip Replacement.” The Jikei University School of Medicine, Tokyo, Japan (August 1991).

The 8th Annual International Symposium on New Developments in Total Joint Reconstruction: “Clinical Experience with Cementless Fixation of the Femoral Component,” “Long-Term Follow-up of Porous-Coated Acetabular Components,” and “Distal Femoral Fixation in Revision Total Hip Arthroplasty.” San Diego, CA (August 1991).

The Revision Hip Course: “Long-Term Clinical Results of Cementless Revision Arthroplasty,” and “Results of Bone Ingrowth of the Acetabulum.” Central DuPage Hospital, Illinois (1991).

Stanford University Grand Rounds: “Long-Term Results of Porous-Coated Primary Total Hip Replacement Using the Anatomic Medullary Locking Stem.” Palo Alto, CA (1991).

State of the Art: Total Hips/Total Knees Bioskills Workshop: “The Effects of the Extent of Porous Coating on Implant Stability and Stress Shielding,” “Preoperative Planning: Re-establishing the Hip Center,” “Long-Term Experience with Cementless Acetabular Replacement,” and “Femoral Revision: Technical Considerations and Clinical Results.” Monterey, CA (1991).

The Joint Replacement Seminar: “Preoperative Planning for Cementless Total Hip Replacement,” “Revision Techniques of the Femur,” and “Clinical Results of Cementless Revision Total Hip Replacement.” Pinehurst, NC (1991).

The 104th Annual Meeting of the AOA: “Cortical Bone Loss Secondary to Stress Shielding.” Palm Beach, FL (1991).

Visiting Professor Program for the Department of Orthopaedic Surgery at the Thomas Jefferson University: “Preoperative Planning for Cementless Total Hip Replacement,” and “Ten-Year Results for Cementless Total Hip Replacement.” Philadelphia, PA (1991).

American Academy of Orthopaedic Surgeons Course: Management of Acetabular and Femoral Deficiencies in Total Hip Replacement: “Prosthetic Selection and Long-Term Results in Socket Reconstruction,” “Treatment of the Superior Defect and Prosthetic Selection,” and “Results of Femoral Reconstruction.” Washington, DC (April 1991).

48th Course on Hip and Knee Joint Surgery, The Maurice E. Mueller Foundation: “Removal of Fully Porous-Coated Stems,” “Preoperative Planning for Revision of Total Hip Replacement,” and “Complications of Total Hip Replacement and Revision Arthroplasty.” Bern, Switzerland (1991).

State-of-the-Art Hip and Knee Replacement: Issues in Fit and Longevity: “Management of Bony Defects,” and “The Case for and Clinical Results of the Straight Distally Fixed Femoral Component.” Indiana University, Breckenridge, CO (January 1991).

The 5th Annual Vail Hip and Knee Symposium: “Radiographic Evaluation of Stability of Cementless Femoral Stems,” “The AML—Long-Term Results,” and “Clinical Results of Cementless Revision Total Hip Replacement.” Vail, CO (February 1991).

Current Controversies in Primary and Revision Total Hip Arthroplasty: “Patient Selection and Preoperative Planning for Cementless Total Hip Replacement,” “Evolutionary Changes of the AML Total Hip System with Long-Term Follow-up,” and “Long-Term Clinical Results for a Cementless Revision Total Hip System.” Toronto, Canada (December 1990).

Holy Spirit Hospital Joint Replacement Seminar: “Concepts and Experiences with the AML Hip System,” “Revision Total Hip Replacement—The Case for a Porous-Coated Femoral Component,” and “Techniques for Removal of Porous-Coated Femoral Prosthesis.” Brisbane, Australia (November 1990).

Australian Orthopaedic Association: “Concepts and Experience with the AML Hip System,” “Techniques for Removal of Porous-Coated Femoral Prostheses,” and “Revision Total Hip Replacement.” Sydney, Australia (November 1990).

Academic Orthopaedic Society: “Cementless Implants and Stress Shielding—Clinical Studies.” Philadelphia, PA (November 1990).

New Jersey Orthopaedic Symposium: Annual Goldenberg Memorial Lectures: “Long-Term Results of Porous-Coated Total Hip Replacement Using the Anatomic Medullary Locking Stem.” Somerset, NJ (October 1990).

Issues in Orthopaedic Implant Technology: “Preoperative Planning,” “Roentgenographic Analysis of Stability in Cementless Femoral Components,” “Long-Term Clinical Results for a Cementless Total Hip System,” “Long-Term Clinical Results for a Cementless Acetabular Component,” “Techniques in the Removal of Porous-Coated Femoral Components,” and “Long-Term Clinical Results of a Cementless Femoral Revision System.” Hilton Head, FL (October 1990).

Silver Anniversary Orthopaedic and Trauma Seminar: “Long-Term Results of Primary Total Hip Replacement” and “Long-Term Cementless Revision Cases.” University of Minnesota, Minneapolis, MN (October 1990).

20th Annual Course Total Hip Replacement: “Fully vs. Partial Coating,” “Experimental Data on Initial Surface Contact of Various Cementless Acetabular Sockets,” “Fit of Cementless Sockets,” “AML in Patients 50 and Under,” “A Case for Cementless AML: Five-Year Data,” and “Experience with Various Revision Socket Reconstructions.” Harvard Medical School, Department of Orthopaedics, Boston, MA (October 1990).

The Hip Society: “Factors Contributing to Endosteal Resorption Surrounding Cementless Femoral Stems.” Scottsdale, AZ (September 1990).

Western Orthopaedic Association: “The Experience with Porous-Coated Femoral Components for Total Hip Replacement.” Orange County, CA (September 1990).

The University of California at Irvine, Grand Rounds: “Long-Term Biological Fixation of the AML Hip Prosthesis.” Los Angeles, CA (1990).

The International Society of Orthopaedic Surgery and Traumatology (SICOT '90): “Revision Total Hip Replacement: The Case for a Porous-Coated Femoral Components,” “Cementless Revision Total Hip Arthroplasties for Failed Cementless Femoral Components,” “Porous-Coated Total Hip Replacement in Young Patients,” and “The Removal of Porous-Coated Femoral Hip Stems.” Montreal, Canada (1990).

American Academy of Orthopaedic Surgeons Revision Total Hip and Knee Reconstruction Summer Institute Course: “Preoperative Evaluation and Mechanisms of Failure.” Monterey, CA (1990).

Puerto Rico Orthopaedic Society Convention: “Preoperative Planning and Templating for Porous-Coated Total Hip Replacement,” “Radiographic Analysis of Implant Fixation,” and “Failure and Cementless Revision for Failed Total Hip Replacement.” Santurce, Puerto Rico (August 1990).

Hospital for Special Surgery, Grand Rounds. New York, NY (August 1990).

27th Brazilian Orthopaedic and Trauma Congress: "Preoperative Templating," "Radiographic Follow-up and Analysis of Biological Fixation," "Long-Term Results with the AML," and "Revision Hip Surgery: Problems and Solutions." Rio de Janeiro, Brazil (August 1990).

Mid-Central States Orthopaedic Society: "Primary AML Total Hip Replacement and Revision Total Hip Replacement." Jackson Hole, WY (June 1990).

7th Annual DePaul International Symposium: "New Developments in Total Joint Reconstruction," "Femoral Component Fixation," "Distal Fixation for Femoral Reconstruction," and "Technique for Complex Acetabular Reconstruction." St. Louis, MO (June 1990).

Surgical Presentation. "Acetabular Bone Grafting and the Femur: Factors Necessary to Achieve Non-Cemented Fixation." Centinela Hospital, Los Angeles, CA (June 1990).

Current Concepts in Cementless Revision Total Hip Replacement: "Plain Radiographic Diagnosis of Implant Failure," "Acetabular Reconstruction of Contained Defects," "Preoperative Planning and Templating," "Long-Term Clinical Results of Cementless Femoral Revision," and "Causes for Failure of Cementless Implants." Houston, TX (June 1990).

Current Issues in Revision Hip and Knee Arthroplasty: "Preoperative Templating," "Long-Term Results of Femoral Revisions with Porous-Coated Stems," and "AML Straight Stem." Scottsdale, AZ (May 1990).

4th International Symposium of Orthopaedics and Surgery of Bone and Joints "Clinical Experience with the AML Hip System." Universities of Ulm and Heidelberg, Munich, Germany (May 1990).

Charlotte Hip Symposium: "Structural Allografts in Acetabular Reconstruction," "Removal of Porous-Coated Components," and "Cementless Revision of Cemented Femoral Components." Charlotte, NC (April 1990).

Arthroplasty Society: "Results of Cementless Primary Total Hip Surgery," "Results of Cementless Primary Total Hip Replacement," "Results of Cementless Revision Total Hip Replacement," and "Comparison of Porous Versus Threaded Cups." Cape Town, South Africa (March 1990).

International Symposium: "Non-Cemented Total Hip Replacement," "Roentgenographic Interpretation of the Bone-Implant Interface with Cementless Total Hip Replacement," and "Concepts and Experiences with the AML Hip System." Tübingen, Germany (March 1990).

Indiana Orthopaedic Society Annual Meeting: "AML Total Hip Replacement Principles and Templating," "Results of AML Total Hip Replacement," and "Revision Hip Surgery with AML." Indianapolis, IN (March 1990).

State-Of-The-Art In Hip And Knee Replacement: Issues In Fit And Longevity: "Results with Porous Stem." Breckenridge, CO (March 1990).

Common Problems in Reconstructive Surgery of the Hip and the Knee: "Optimizing Cementless Fixation—Hips," "Uncemented Total Hip Replacements," Femoral Reconstruction Techniques, and Long-Term Results," "Cementless Revisions of Failed Total Hip Replacements." AAOS, New Orleans, LA (February 1990).

The Hip Society: "Primary Cementless Total Hip Replacement—The Femoral Side." AAOS, New Orleans, LA (February 1990).

Common Problems in Reconstructive Surgery of the Hip and Knee: "Optimizing Cementless Fixation—Hips," "Long-Term Clinical Results—Cementless Total Hip Replacement," and "Long-Term Clinical Results—Cementless Hip Revisions Aseptic." Chicago, IL (1990).

State-of-the-art in Total Joint Replacement: "Clinical Results with Non-Cemented Total Hip Replacement," "Long-Term Bone Changes with Fully Coated Femoral Stems," and "Failed Sockets with Allografts." Phoenix, AZ (1990).

43rd Annual Meeting Virginia Orthopaedic Society: "Roentgenographic Results of Structural Acetabular Bone Graft Reconstruction in Cementless Primary and Revision Total Hip Arthroplasty," "Osteolysis in Cementless Total Hip Arthroplasty—A Histologic and Material Analysis." Wintergreen Resort, VA (1990).

Current Concepts in Implant Fixation: "The AML Hip System," "Radiologic Assessment of Hip Failure," "The Problem of Thigh Pain and What Would You Do?" and "Challenges in Hip Surgery." Cleveland, OH (1989).

Pennsylvania Orthopaedic Society: "The AML Hip System" and "Focus on Total Hip Replacement." Philadelphia, PA (November 1989).

Eighth British Course on Hip Surgery: "Biological Advantages of Different Types of Porous Surfaces," "The AML Hip System: 0-8 Years," "Smooth Threaded Versus Porous-Coated Cups," "X-ray Analysis of Bone Response in Cementless Total Hip Replacement," and "Results of Bone Grafting Procedures in Revision Surgery." The University of Birmingham, England (October 1989).

Hip Course: "Cement Disease, The Acetabular Side—A Case Against Cement," "The Femoral Side—AML," "The Causes of Thigh Pain, Aggressive Human Osteoporosis," "Use of Screw Rings," "Current Status of Polysulfone," "Revision—Femoral Side: Use of the AML," and "Use of Various Acetabular Components." Boston, MA (1989).

University of Vermont, Hip and Knee Replacement: A Clinical Seminar. "Stem Configuration—Straight Versus Anatomic," "Results of Cobalt Chrome Primary Total Hip Arthroplasty—Non-Cemented," and "Revision Total Hip Arthroplasty—Overview, and Surgical Technique." Stowe, VT (October 1989).

American Academy of Orthopaedic Surgeons, Summer Institute: "Results of Revision Total Hip Replacement." Chicago, IL (September 1989).

International Symposium of Cementless Joint Replacement: “Mechanical Principles of Initial fixations of Femoral Components” and “AML Modular Head Total Hip System.” Tokyo, Japan (1989).

New England Baptist Hospital: Grand Rounds. Boston, MA (1989).

The Joint Reconstruction Center and the Methodist Evangelical Hospital: “Clinical Results of Porous-Coated Chrome Cobalt Stems” and “Clinical Results of Threaded Cups.” Louisville, KY (1989).

Missouri Orthopaedic Association: “Short and Long-Term Clinical Results with Cementless Primary and Revision Total Hip Arthroplasty.” Tartar, MO (1989).

Cleveland Clinic Foundation: “Long-Term Results of AML Uncemented Primary THA” and “Results of Uncemented Revision Total Hip Arthroplasty.” Cleveland, OH (1989).

Association of Bone and Joint Surgeons: “Cementless Acetabular Components, A Comparison of Porous-Coated and Threaded Designs” and “Cementless Total Hip Replacement Using the AML Stem—0-8 Years Results Using a Survivorship Analysis.” (1989).

The International Hip Society: “Roentgenographic Assessment of the Stability of Cementless Femoral Components.” New York, NY (1989).

American Academy of Orthopaedic Surgeons (AAOS): “Uncemented Primary Total Hip Arthroplasty—Clinical Experience” and “Revision of Failed Porous Ingrowth Systems.” Tarpon Springs, FL (1989).

Dartmouth Biomedical Engineering Center: “The Influence of Stem Size and Extent of Porous Coating on Femoral Bone Resorption after Primary Cementless Hip Arthroplasty” and “The Comparative Performance of Threaded and Porous-Coated Acetabular Components.” Kissimmee, FL (1989).

University of Indiana: “Experience with the Partially and Fully Coated AML” and “Experience with Composite Stems (Polysulfone).” Breckenridge, CO (1989).

American College of Surgeons: Current Concepts in Implant Fixation. Washington, DC (1989).

The Hip Society Specialty Day: “The Rationale, Experience and Results of a Standard Stem Prosthesis.” Las Vegas, NV (1989).

Mount Sinai Medical Center: “The Difficult Femur: Primary and Revision” and “Mechanisms and Classification of Femoral Component Failure.” Orlando, FL (1988).

Maine Academy of Orthopaedic Surgeons: “Radiographic Analysis of Porous Femoral Components” and “Revision Arthroplasty: Problems and Solutions.” Northeast Harbor, ME (1988).

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- Aula Magna of the Hospital Provincial. Stem Design and Presurgical Planning.” Madrid, Spain (1988).
- UCLA Extension: “The AML Hip System and Porous versus Threaded Acetabular Components.” Maui, HI (1988).
- “Clinical Results of Revision Cases,” “Radiographic Analysis of Acetabular Components,” and “Preoperative Planning and Templating.” Hilton Head, SC (1988).
- Harvard Medical School. “Clinical Results: Primary Cementless Total Hip Arthroplasty—the Femoral Side” and “Revision Total Hip Arthroplasty—the Femoral Side.” Boston, MA (1988).
- AAOS, Summer Institute. “A Case for Cement Free Revisions” and “Factors in Bone Modeling—Femur and Acetabulum.” San Diego, CA (1988).
- Japanese Orthopaedic Association. Cementless Total Hip Arthroplasty.” Tokyo, Japan (1988).
- Norwegian Rheumatoid Arthritis Surgical Society and the Norwegian Orthopaedic Association. “The Scientific Basis of Fixation by Porous Coating,” “Development of the AML Prosthesis,” and “Longtime Follow-Up Fixation by Porous Coating.” Oslo, Norway (1988).
- International Orthopaedic Association. “Non Cemented Total Hip Replacement with the AML Prosthesis” and “AML Experience in Revision Surgery.” Appleton, WI (1988).
- DePaul Health Center: “Cementless Total Hip Replacement in Older Age Groups,” “Porous Polysulfone in Total Hip Replacement,” and “Principles of Revision Total Hip Replacement.” St. Louis, MO (1988).
- Joint Implant Surgery and Research Foundation. “Radiographic Analysis of a Porous-Coated Femoral Implant,” “Long-term Clinical Results Using a Porous-Coated Femoral Implant,” “Radiographic Analysis of Acetabular Implants,” and “Preoperative Planning and Templating.” New York, NY (1988).
- Morris County Orthopaedic Society. “Experience with the AML.” Newark, NJ (1988).
- Houston Orthopaedic Society, Grand Rounds. “Experience with Biological Fixation of the Hip.” Houston, TX (1988).
- Georgia Baptist Medical Center, Grand Rounds. “Experience with the AML.” Atlanta, GA (1988).
- Louisville Orthopaedic Society: “Primary and Revision Total Hip Arthroplasty.” Louisville, KY (1988).

- Medical College of Georgia. "Radiographic Analysis of a Porous-Coated Femoral Implant," "Long-term Clinical Results Using a Porous-Coated Femoral Implant," "Radiographic Analysis of Acetabular Implants," and "Preoperative Planning and Templating." Hilton Head, SC (1988).
- Maurice E. Mueller Foundation. "A Comparison of the Results of Porous-Surfaced Versus Smooth Threaded Non-cemented Acetabular Components in Primary Total Hip Arthroplasty." Berne, Switzerland (March 1988).
- Amsterdam Orthopaedic Society. "Experience with Biologic Fixation and the AML." Nieuwegein, Holland (1988).
- Philadelphia Orthopaedic Society. "The Short and Intermediate (5 yr.) Results of Cementless Hip Replacements Using Porous Surfaced Implants." Philadelphia, PA (1988).
- 5th Annual International Symposium, State-of-the-Art in Total Joint Replacement. "Cementless Prosthesis Fixation Techniques for the Acetabulum and Femur in Total Hip Replacement" and "Revision Total Hip Replacement." Scottsdale, AZ (1988).
- Mount Sinai Medical Center. "Mechanisms and Evaluation of Femoral Component Failure and AML Hip System." Orlando, FL (1987).
- UCLA. "Factors Effecting Stress Shielding," "Current Strategies for Prosthesis," and "Technique Selection: Porous/Press Fit/Cemented." Los Angeles, CA (1987).
- American Academy of Orthopaedic Surgeons: Unique and Unusual Aspects of Total Hip Replacement. "Indicators to Appropriate Bone Response with Porous-Coated Cobalt Chrome Stem/Cup" and "Rationale for Porous-Coated, Threaded, Titanium Cups." Phoenix, AZ (1987).
- Oregon Chapter of the Western Orthopaedic Association. "AML in Primary Cases—Early and Late Experience" and "Cementless Revision—AML Hip." Portland, OR (1987).
- AAOS: Harris Course: Controversies in Total Hip Replacement. "AML—Early Series," "AML—Current Series," "Screw Ring Sockets," "Cement vs. Cementless THR," and "Indications, Contraindications, and Patient Selection." Boston, MA (1987).
- International Hip Society. "Biologic Ingrowth." Munich, Germany (1987).
- The Kennedy Center for the Hip and Knee. "Primary Non-cemented Total Hip Replacement" and "Revision Non-cemented Total Hip Replacement." Wisconsin (1987).
- Maine Orthopaedic Seminars. "Cementless Fixation," "Porocoat Prosthesis," and "Threaded Acetabular Components." (1987).

DePaul Health Center: New Developments in Total Joint Reconstruction—an International Symposium. “Surgical Principles: Collared Cementless Femoral Fixation,” “Clinical Results: Uncemented Total Hip Replacement,” and “Cementless Femoral Revision Techniques.” St. Louis, MO (1987).

The American Orthopaedic Association: The Orthopaedic Association of the English-speaking World, 8th Combined Meeting. “Bony Ingrowth Fixation.” Washington, DC (1987).

The 10th Chimere Symposium of Total Hip Prostheses. “Porous-Coated Experience.” Normandy, France (1987).

Symposium. “Cementless Hip Fixation.” Ghent, Belgium (1987).

Orthopaedic Research and Education Foundation. “Non-cemented Total Hip Arthroplasty: The Bone Interface.” Phoenix, AZ (1987).

Grand Rounds sponsored by University of Medicine and Dentistry of New Jersey. “Revision Experience with Non-cemented Total Hip Replacements” and “Results of Non-cemented Primary Total Hip Arthroplasty.” (1987).

Maine Orthopaedic Seminars. “Failed Total Hip Arthroplasty” and “Revision Using Cementless Techniques.” (1986).

“Biological Fixation—the AML Hip.” Dracy Le Fort, France (1986).

New England Baptist Hospital, Grand Rounds. “Cementless Arthroplasty.” Boston, MA (1986).

Tufts University, School of Medicine, Grand Rounds. Boston, MA (1986).

University of Maryland School of Medicine. “Porous Ingrowth—An Update.” Baltimore, MD (1986).

American Academy of Orthopaedic Surgeons (AAOS). “Cementless Revision Total Hip Arthroplasty Using a Porous Surfaced Femoral Implant.” New Orleans, LA (1986).

The Hip Society. “Non-Cemented Revision for Failed Cemented Hip Implants.” New Orleans, LA (1986).

American Academy of Orthopaedic Surgeons (AAOS). “Results with a Non-cemented, Porous Surfaced Femoral Implant—Three-and-One-half to Eight-Years' Assessment.” Las Vegas, NV (1985).

American Academy of Orthopaedic Surgeons (AAOS). “AML Prosthesis and AML in Revision Surgery.” Hilton Head, NC (1985).

UCLA. "Comparison of Mecron Screw Ring and AML Socket," "Microporous Hip Replacement Results—AML," "AML Total Hip Replacement—An Operative Case," and "Technique and Results of the AML Stems for Revision." (1985).

American Academy of Orthopaedic Surgeons. "Cementless Revision Arthroplasty—Principles, Techniques, Results, and Complications with a Porous-Coated Metal System." Monterey, CA (1985).

Harrington Arthritis Center. "The Uncemented Interface, Porous-Coated Sockets," and "Uncemented Total Hip Arthroplasty." Phoenix, AZ (1985).

Mt. Sinai Medical Center. "Mechanisms and Evaluation of Femoral Component Failure." New York, NY (1985).

The American Academy of Orthopaedic Surgeons (AAOS). "Revision Surgery Techniques—Cemented and Non-cemented Total Hips," "Acetabular Component Loosening—Prevention and Treatment," and "Non-cemented Revisions." Palms Springs, CA (1985).

12th Annual Hip Society. "Biological Fixation of a Modified Moore Prosthesis—Evaluation of Adaptive Femoral Bone Modeling and Early Clinical Results." (1984).

The American Academy of Orthopaedic Surgeons (AAOS). "The Histology of Tissue Ingrowth into Porous Metal-Coated Moore Prostheses." (1984).

Grand Rounds, University of Maryland. "Porous-Coated Prostheses." Baltimore, MD (1984).

University of Missouri School of Medicine. "Principles of Porous-Coated Implants—Surgical Techniques in Porous-Coated Implants." (1984).

20th Annual Orthopaedic and Rehabilitation Seminar. "Clinical Experience with Porous-Coated Implants." Iowa (1983).

"The Importance of Selection of Pore Size and Considerations in Implant Design for Bone Ingrowth," "Modified Austin-Moore Porous-Coated Total Hip—Five-Year Follow-up," and "Revision Arthroplasty with Porous-Coated Prostheses: Indications, Patient Selection, and Surgical Techniques." London, England (1983).

The American Academy of Orthopaedic Surgeons (AAOS). "Porous-Coated Hip Replacement—Five Year Follow-up." Anaheim, CA (1983).

"Interface: Histological Study of a Retrieved Human Femur-Hip Prosthesis." Anaheim, CA (1983).

American Academy of Orthopaedic Surgeons. "Bio-ingrowth." Columbus, GA (1983).

The Cleveland Research Institute. "Assessment of Porous-Coated Hip Systems, Porous-Coated Hip Replacement Systems, Porous-Coated Hip Revision Systems, and Problem Cases in Hip and Knee Replacements." Bar Harbor, ME (1982).

Scoliosis Research Society Annual Meeting. "Hemibertebra of the First Sacral Segment as a Cause of Uncompensated Scoliosis: Treatment by Vertebral Wedge Resection." (1972).

American Academy of Orthopaedic Surgeons Annual Meeting. "Osteomyelitis Complicating Hereditary Hemoglobinopathies." (1969).

American Academy of Orthopaedic Surgeons, Annual Meeting. "Cortical Desmoids." (1968).