

CURRICULUM VITAE

Effective: July 1, 2015

NAME WILLIAM CHARLES MC MASTER, M.D., F.A.C.S., F.A.A.O.S.

BORN May 23, 1939, Chicago, Illinois

MARRIED Ruth Lynn DeGraw, August 18, 1962

Andrea Lynn McMaster, October 7, 1965
William John McMaster, August 16, 1967

CONTACTS

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CURRENT PROFESSIONAL POSITIONS

Clinical HS Professor Step II, University of California, Irvine. Chief of Joint Arthroplasty Service

Chief of Orthopaedics, Long Beach VAMC, Residency Program Director

MILITARY SERVICE

1967-69 United States Air Force, Captain, Medical Services, 1099th Dispensary, 437th MAW, Charleston AFB, Charleston, SC

EDUCATION

1955-1958 The Hotchkiss School

1958-1962 Yale University B.S.-Zoology

1962-1966 Case Western Reserve University, School of Medicine, MD

1966-1967 University of Chicago Surgical Intern

1967 University of Chicago, Junior Assistant Resident, General Surgery

1969-1970 University of Chicago, Post Graduate Study in Physiology

1970-1971 University of Chicago, Senior Assistant Resident, General Surgery

1971-1974 University of California, Irvine Resident in Orthopaedic Surgery

FELLOWSHIPS

1969-1970 University of Chicago USPHS Fellowship in Surgery Research

CERTIFICATION

1966 Ohio Board of Medical Examiners

1967 Diplomat, National Board of Medical Examiners

1971 California Board of Medical Examiners

1975 Diplomat, American Board of Orthopaedic Surgery

HONORS/AWARDS

1956-58 Lettered in swimming(Captain 58), football, baseball(Captain58)-
Hotchkiss School
Scholastic All-American Swimming 1956,57,58

1958 Book Prize for Excellence in Biology- Hotchkiss School

1959-62 Lettered in swimming(Captain 62), water polo(Captain 62)-Yale University
NCAA All-American swimming- 60
Eastern Collegiate Water Polo – First Team Forward 61,62

1961 Election to Berzelius Senior Society – Yale University

- 1961 Election to Torch Honor Society- Yale University
- 1961 First recipient of the Kingsley Trust- Crawford Scholarship- Yale University
- 1970 Chicago Surgical Society- Honorable Mention- Resident Research
- 1971 Nicholas Andre Society- Resident Research Award
- 1972 Nicholas Andre Society- Resident Research Award
- 1973 Western Orthopaedic Assn- Vernon Thompson Award- Resident Research
- 1974 Western Orthopaedic Assn- Vernon Thompson Award- Resident Research
- 1974 American Orthopaedic Association- Resident Guest
- 2000 University of California, Irvine- Orthopaedic Department Volunteer Faculty Teaching Award
- 2002 Founders' Award, California Orthopaedic Association
- 2003 Chief of Staff Award of Appreciation, LBVA Healthcare System
- 2004 University of California, Irvine- Orthopaedic Department Affiliated Faculty Teaching Award
- 2005 University of California, Irvine- Orthopaedic Department Affiliated Faculty Teaching Award
- 2006 Chief of Staff and HCG Chiefs Award of Appreciation, LBVA Healthcare System
- 2007 University of California, Irvine- Orthopaedic Department Volunteer Faculty Teaching Award
- 2008 University of California, Irvine- Orthopaedic Department Affiliated Faculty Teaching Award
- 2009 University of California, Irvine- Orthopaedic Department Affiliated Faculty Teaching Award
- 2010 University of California, Irvine- Orthopaedic Department Affiliated Faculty Teaching Award
- 2011 University of California, Irvine- Orthopaedic Department Affiliated Faculty

Teaching Award

- 2012 University of California, Irvine- Orthopaedic Department Affiliated Faculty Teaching Award
- 2013 Physician of Excellence designation by Orange County Medical Association
- 2013 University of California, Irvine- Orthopaedic Department Volunteer Faculty Teaching Award
- 2013 Castle Connolly Medical LTD Regional Top Doctor 2013
- 2014 Castle Connolly Medical LTD Regional Top Doctor 2014
- 2015 Castle Connolly Medical LTD Regional Top Doctor 2015
- 2015 Founders' Award, California Orthopaedic Association

PROFESSIONAL ASSOCIATION MEMBERSHIPS

- 1974 Orange County Medical Association
- 1974 California Medical Association
- 1974 Society for Biomaterials-Founding Member
- 1974 California Orthopaedic Association
- 1977 Fellow, American College of Surgeons
- 1977 Western Orthopaedic Association, Member
- 1978 Fellow, American Academy of Orthopaedic Surgeons
- 1978 Orthopaedic Research Society, Member
- 1981-1986 American Orthopaedic Society for Sports Medicine, Associate Member
- 1986 American Orthopaedic Society for Sports Medicine, Active Member
- 1991 American Orthopaedic Association, Member
- 1991 Association for Arthritic Hip and Knee Surgery, Charter Member

1997	Societe Internationale de Chirurgie Orthopedique et de Traumatologie - Member
2002	Lamplighters Orthopaedic Association - Member
2006	Wilson-Bost Interurban Club – Southern Section - Member
2009	International Society for Technology in Arthroplasty –Member
2010	International Congress for Joint Reconstruction – Member
2010	20 th Century Orthopaedic Association – Senior Active Member

RESEARCH GRANTS

Orthopaedic Research and Education Foundation Muscle Force Velocity Relationships of Elbow Flexors 1980-1981	\$5000.00
Beiersdorf A.O. Clinical Evaluation of <i>Implast</i> Cement 1981-1982	\$5000.00
Comm. For Inst. Development, UCI Effect of glycogen depletion on the determination of the Anaerobic threshold 1981-1982	\$500.00
Comm. For Inst. Development, UCI Effect of Isometric Precontractions on the Training Response of the Knee Extensors 1981-1982	\$450.00
Department of Veterans Affairs 1998-2001 Co-Investigator Preventing Shoulder Pain in the Spinal Cord Injury Patient	\$333,900
Howmedica Corporation 1999-2000 Co-Investigator Biomechanical Analysis of the GH Interface Of TSA vs Endoprosthesis in the Overhead Active Positions	\$30,000

CURRENT CLINICAL APPOINTMENTS

HOSPITAL AFFILIATIONS

1974-2012 Children's Hospital of Orange County, CA., Attending Staff
2012 Honorary Staff

1974- St. Joseph Hospital, Orange, CA., Active Attending Staff

1995- Long Beach Veterans Affairs Hospital, Long Beach, CA., Staff

ACADEMIC POSITIONS

1974 University of California, Irvine, Assistant Clinical Professor, Orthopaedic Surgery

1974-1982 University of California, Irvine, Director of Orthopaedic Research

1975 University of California, Irvine, Assistant Professor, Orthopaedic Surgery

1978 University of California, Irvine, Associate Professor, Division of Orthopaedic Surgery

1978-1982 University of California, Irvine, Chief, Orthopaedic Residency Program

1984- University of California, Irvine, HS Clinical Professor, Department of Orthopaedic Surgery

1986-87 St. Joseph Hospital, Orange, CA., Orthopaedic Department, Chairman

1990-93 University of California, Irvine, Clinical Faculty Review Committee

1991-93 University of California, Irvine, Surgical Credentials Committee

2001-2002 Long Beach Veterans Affairs Hospital- Assistant Chief, Orthopaedics

2002-2003 Long Beach Veterans Affairs Hospital- Acting Chief, Orthopaedic Section

2003- Long Beach Veterans Affairs Hospital- Chief, Orthopaedic Section, Residency Program Director

2013- University of California, Irvine, Orthopaedic Department Resident Competency Committee

ORTHOPAEDIC ASSOCIATION PARTICIPATION AND POSITIONS

AMERICAN ACADEMY ORTHOPAEDIC SURGEONS; AMERICAN ASSOCIATION ORTHOPAEDIC SURGEONS

- 1982-88 Region 17 Membership Committee
- 1983 Vice-Chairman, Local Audio-Visual Committee 1983 Annual Meeting-Anaheim
- 1988-93 Committee on Biological Materials
- 1990-96 Committee on Ethics
- 1990-96 Board of Councilors
- 1993 Radiology Task Force
- 1994-96 Board of Councilors, Executive Committee
- 1994 Task Force on Managed Care
- 1995-2002 Committee on Health Care Financing
- 1995- 01 Resolutions Committee
- 1996 Advisory Committee on Publication, " Managed Care Contracting and Negotiating"
- 1996- Steering Group for National Conference on Groups, Mergers, and Networks
- 1997 Program Committee, Reshaping Your Practice, CME Course, June 5-9, 1997
- 1998 Member Nominating Committee
- 1999 Chair, Local Scientific Program Committee, 1999 Annual Meeting, Anaheim
- 1999 Regional Chairman, Political Action Committee, So. California, Hawaii
- 1999 Practice Management Program, Steering Committee
- 2002- 2015 Council on Research and Quality (CORQ)- OREF Representative
- 2003-2005 Bulletin Editorial Advisory Board

2003-2005 Communications Committee

2006-2008 AAOS/BoD - Task Group on the Orthopaedic Work Force – CORQ REP

2007, 2008 Mentor in the AAOS Leadership Fellowship Program (LFP)

2007-2008 Guidelines Education Program Project Team

2010 Nominated for the Nominating Committee

2011-2012 Mentor in the AAOS Leadership Fellowship Program (LFP)

2011, 12, 13, 14 AAOS Achievement Award

2014 AAOS Task Force on Orthopaedic Work Force

2014 AAOS Task Force on Patient Safety

ORTHOPAEDIC RESEARCH AND EDUCATION FOUNDATION

1994-98 Medical Director

1995 Shands Circle – Platinum Level

1998-2007 Board of Trustees

1998- 2003 Grants Review Board

1998-2007 Chair-Communications Committee

1998- Shands Circle Committee

2002- 2015 AAOS Council on Research and Quality (CORQ) – OREF Representative

2003 Nominating Committee

2003-2007 Executive Committee of the Board

2003-2007 Secretary of the Board of Trustees

2003- OREF 50th Anniversary Campaign- Campaign Cabinet-Surgeons Annual Giving

2006 Nominating Committee

2008 Nominating Committee

2009-2013 Resident Educational, CME and Fellowships Grants Committee

2013- Board of Trustees

2013 - Board of Trustees - Finance Committee

2014 - 2015 OREF/AAOS Research Award – review committee

CALIFORNIA ORTHOPAEDIC ASSOCIATION

1983-2000 Board of Directors

1990-1996 AAOS Board of Councilors – COA Orange District Councilor

1991 Program Chairman, Annual Meeting

1992 Program Chairman, Annual Meeting

1994 2nd Vice President

1994 Executive Committee

1995 1st Vice President

1995- Health Care Finance Committee

1996 President

1997-98 Bylaws Committee, Chair

1997- 99 Planning and Development Committee-Chair

2005-2007 Planning and Development Committee

2008 -2014 Board of Directors, Orange District

2014-15 Program Chair Annual Meeting - Scientific program

WESTERN ORTHOPAEDIC ASSOCIATION

1981 Orange County Chapter, Vice President

1983 Orange County Chapter, President

1985-88 Finance Committee

1987-89 Bylaws Committee, Chairman; Program Committee; Resident Committee

1989 Program Committee, Chairman, Annual Meeting

1990 Resident Committee, Chairman

1991-94 Board of Directors

1991 Editorial Committee, Chairman

1994-97 Planning & Development Committee

1999 -2001 Bylaws Committee

2004-2011 Board of Directors

2004 - 2005 Board of Directors, Member at Large

2005 -2007 Treasurer/Historian Board of Directors

2005 - 2007 Chair, Finance Committee

2007- Finance Committee

2005 -- Membership Committee

2005 -- Planning and Development Committee

2005 -- Endowment Committee

2006 Nominating Committee

2007-2008 2nd Vice President

2007- Committee on Committees

2008 - Leader - Strategic Plan Project Group

2008-2009 1st Vice President

2009-2010 President

2011 Chair Nominations Committee

2011- Appointee to Advisory Board of Ortho Preferred

2013 Nominating Committee

20TH CENTURY ORTHOPAEDIC ASSOCIATION

2012 Compere Award Committee – Chair

2014 Nominations Committee

LAMLIGHTERS ORTHOPAEDIC ASSOCIATION

2012-2015 Chair

SICOT FOUNDATION

2004- 2012 SICOT Foundation Board of Trustees

2010- 2012 Assistant Treasurer

CALIFORNIA MEDICAL ASSOCIATION

1978-82 Orthopaedic Advisory Panel

1991-97 Council on Scientific Affairs-Orthopedic Representative

1991-97 Orthopedic Advisory Panel, Chairman

1998-2000 Orthopaedic Advisory Panel, Past Chairman

DEPARTMENT OF VETERANS AFFAIRS

1995- VA Association of Orthopaedic Surgeons - member

2001-2009 VA National Field Advisory Committee on Orthopaedics

2002- 2011 VA National Orthopaedic Joint Prosthetics Contract Oversight Committee

2009- 2013 VA National Orthopedic Surgery Advisory Board

2009- National Surgery Office - reviewer of VA Orthopaedic Surgery programs

2012- 2014 VA/DOD 2014 Clinical Practice Guideline for Non-surgical Management of

Osteoarthritis - Co-Chair of National CGP Work Group

2014- Support Group to VA National Orthopaedic Surgery Advisory Board

EDITORSHIPS/REVIEWER

1982-1990 *The Western Journal of Sports Medicine*, Advisory Panel on Orthopaedics

1997- *Postgraduate Medicine*, Minneapolis, Editorial Board

1990- *The American Journal of Sports Medicine*, Reviewer

1995- *Medscape Orthopaedics*, Reviewer

1958- *The Physician and Sports Medicine*, Reviewer

2008-2014 *Journal of Applied Physiology* – Reviewer

2010- *Journal of Orthopaedic Advances* – Editorial Board

2012 Cochrane Musculoskeletal External Reviewer

SPORTS MEDICINE APPOINTMENTS

1974-75 California Sun, World Football League, Orthopaedic Consultant

1974-78 Newport Harbor High School, Newport Beach, CA., Team Physician

1977-78 California Sunshine, American Soccer League, Team Physician

1979-1988 Santa Ana College Football, Santa Ana, CA, Team Physician

1987 US Amateur Athletic Union, Swimming Sports Medicine Committee

1987 United States Swimming, Sports Medicine Society, President

1987-93 United States Swimming, Sports Medicine Council

1987-94 Amateur Swimming Union of the Americas, U.S. Representative, Sports Medicine Committee

1980 1980 US Olympic & National Swimming Team, Team Physician

- 1981 USA/USSR Dual Swimming Competition, Kiev, USSR, Team Physician
- 1982 USA National Team, Monaco Invitational, Team Physician
- 1984 1984 United States Olympic Swimming Team, Team Physician
- 1984 XXIII Olympiad Los Angeles, Physician Specialist, Swimming Venue
- 1986 V World Swimming Championships, Madrid, Spain, U.S. Swimming- Team Physician
- 1988 1988 United States Olympic Swimming Team, Team Physician
- 1989 Pan Pacific Championships, Tokyo, Japan, US Swimming Team Physician
- 1990-93 United States Swimming, Sports Science Committee
- 1991 VI World Aquatic Championships, Perth, Australia, US Head Physician
- 1992 1992 United States Olympic Swimming Team, Team Physician
- 1999 IV Short Course World Championships, Hong Kong, China, Team Physician, United States Swimming

OUTSIDE APPOINTMENTS AND DIRECTORSHIPS

- 1977-88 Tynes School, Placentia, CA., Orthopaedic Consultant, California Children's Services.
- 1976 Irvine, CA., School District, Consultant, Scoliosis Screening Program
- 1995-96 St. Joseph Medical Corporation, Orange, CA., Vice Chairman, Exec. Committee
- 1995-98 St. Joseph Medical Corporation, Orange, CA., Board of Directors
- 1996-98 Orange Coast Managed Care Services, Orange, CA., Board of Directors
- 1997-98 General Nutrition Corporation, Pittsburgh, PA., Physicians Advisory Panel
- 1998-00 Western Center for Clinical Studies, Woodland Hills, CA., Advisory Panel
- 2000-2002 Entropin Corporation- Scientific Advisory Panel
- 2003- Trustee, American Museum of Fly Fishing, Manchester Center, VT

- 2003- Collections Committee: American Museum Fly Fishing, Manchester Center, VT
- 2003- Exhibits Committee: American Musuem Fly Fishing, Manchester Center, VT
- 2005- 2006 Eska America, Inc. – Physician Advisory Board
- 2006-2008 Foundation for Spine and Joint Research- Advisor
- 2006- Trout Unlimited South Coast Chapter Board of Directors Member at Large
- 2007 – MD Review – Peer Reviewer for Arthroplasty, Centennial, CO
- 2010- Advisory Board, Ortho Preferred, Risk Purchasing Group

PRESENTATIONS

1. 33rd American Academy of PM&R, San Juan, P.R., Nov. 7-12, 1971. The Success Rate of Intermittent Catheterization in Patients Previously on Indwelling Catheter Drainage.
2. Association of Bone and Joint Surgeons, Seattle, Wash. and Vancouver, B.C., June 11-14, 1972. Blood Pressure Lowering Effect Of Methylmethacrylate Monomer: Potentiation by Blood Volume Deficit.
3. Western Orthopaedic Association, Houston, Texas, October 30, - November 2, 1972. Blood Pressure Lowering Effect of Methylmethacrylate Monomer: Modification by Certain Vasco-active Drugs.
4. Nicholas Andry Society, Orange County in 1972. Cardiovascular Effect of Methylmethacrylate Monomer.
5. Scoliosis Research Society, Gothenburg, Sweden, September 17-21, 1973. Sympathectomy Effect Following the Anterior Approach for Dwyer Instrumentation.
6. Nicholas Andry Society, Orange County 1973, Surgical Management of Long Bone Fractures in the Acute Spinal Cord Injured Patient.
7. Western Orthopaedic Association, San Diego, CA., October 21-25, 1973. The Surgical Management of Long Bone Fracture In the Acute Spinal Cord Injury Patient. Vernon Thompson

Award.

8. American Academy of Orthopaedic Surgery, Dallas, Texas, Jan. 1974. Management of Long Bone Fractures in Spinal Cord Injury.
9. 6th International Biomaterials Symposium, Clemson, So. Carolina, April 1974. Evaluation of Buffered Glutaraldehyde Fixed Tendon as a Graft Material.
10. Western Orthopaedic Assn., Honolulu, Hawaii, Oct. 6-9, 1974. Tendon Grafting Using Fixed Homogenous Tendon.
11. AAOS Scoliosis Course, Anaheim CA, Jan. 24-26, 1975. Anatomical Review, Anterior Spine Approaches.
12. 7th Annual International Biomaterials Symposium, Clemson, So. Carolina, April 26-30, 1975. Tendon Implants Using Fixed Homogenous Tendon.
13. American Orthopaedic Society for Sports Medicine, July 28-30, 1975. Medial Collateral Ligament Replacement in the Rabbit Model.
14. Orthopaedic Research Society, New Orleans, La., Jan. 28-30, 1976. The Use of a Porous Interface for Fixation of a Patella 1977. Resurfacing Prosthesis.
15. Orange County Medical Assn., 20th Annual Sports Clinic, Ice Therapy - Good or Bad, Orange, CA, June 5, 1976.
16. American Orthopaedic Society for Sports Medicine, Laboratory Evaluation of Various Icing Therapies, Durango, Colorado, July 10-15, 1976.
17. Microsurgical Seminar, U.C.I., Nerve Grafting, Jan. 23, 1976.
18. Pacific Coast College Health Association. The Use of Ice in Acute Injuries, New Beach, CA. Nov. 22, 1976.
19. U.C.I. Orthopaedic Seminar Cruise-World Professional Seminars. Technique-Total Hip Replacement; Use and Abuse of Artificial Ligaments. March, 1980.
20. American College of Sports Medicine, Interval Training in Figure Skating. Chicago, ILL, May 25-28, 1977.

21. National Athletic Trainers Assoc., Squaw Valley, CA. Use of Ice Therapy in Athletic Medicine, Aug. 5, 1977.
22. Orange County Orthopaedic Nurses Association. Detection and Treatment of Scoliosis, September 20, 1977.
23. Western Orthopaedic Assoc., Closed Femoral Rodding with Prebent Devices. Colorado Springs, CO. Oct. 1-5, 1977.
24. Orange County Paramedic Training Program. Bone and Joint Injuries. Univ. of Calif., Irvine Med. Center. Oct. 10, 1977.
25. National Critical Care Institute of Education, Disneyland Hotel, Anaheim, Ca. Orthopaedic Injuries. Oct. 14, 1977.
26. Edison High School, Huntington Beach, CA. Head and Neck Injuries in Football, August 30, 1977.
27. American Youth Soccer Organization, Presentation of Soccer Injuries, Training and Conditioning, Region 120 Coaches Clinic, Costa Mesa, CA Sept. 6, 1977.
28. Pediatric Orthopaedic Day, University of Calif., Irvine Medical Center, "Common Sports Injuries in Children" and "Septic Arthritis", Dec. 3, 1977.
29. American Academy of Orthopaedic Surgeons, Dallas, Texas, "The UPF Prosthesis": Insertion Technique, Feb. 27, 1978.
30. National Gymnastics Conference, "Car of Athletic Injuries", April 21-22, 1978, Disneyland Hotel, Anaheim, Calif.
31. Orange County School Nurses Conference, Newport Unified School District, "Sports Medicine", April 26, 1978.
32. Department of Surgery, UCI Medical Center, Refresher Course in Trauma, "Fractures in the Emergency Department", Aug. 24, 1978.
33. Diabetes '78 Day Symposium, UCIMC, "Peripheral Vascular and Orthopaedic", September 9, 1978.
34. Conference on Primary Care, UCI Medical Center, Pediatric Department, "Scoliosis Detection - Why and How", Oct. 1978.

35. United States Olympic Committee Sports Medicine Seminar, "Hot and Cold Therapy", Colorado Springs, CO, Feb. 1979.
36. V. Jorrades de Trabaja Sobre, Pathologia y Susituciones Articulares - Universidad Autonomia De Madrid, Spain. December 4-6, 1978.
37. Sports and Physical Fitness Clinic, "Heat and Cold - Theory and Practice", Orange County Medical Association, June 2, 1979.
38. Kansas Orthopaedic Society, "Evaluation of the Painful Total Joint Replacement", September 21, 1979.
39. Competitive Swimming Sports Medicine Committee, "The Shoulder in Aquatic Sports and The Use of Ice for Athletic Injuries". Las Vegas, Nevada, Nov. 30, 1979.
40. UCI Div. of Orthopaedic Surgery Hip and Knee Seminar. "Evaluation of the Painful Total Joint", Pre-operative Planning for Dual Lock", "Revision of Total Hip Including Cement Removal", "Tissue Response to Wear debris", "Indications and Use of Support Rings". Costa mesa, Calif., November 12-14, 1979.
41. Total Joint Replacement: Current and Future Prospects "Aseptic Loosening and Wear Debris Problems", "Pre-operative Planning, Total Hip and Workshop", "Closed Rodding Indications for Femoral Fracture", "Results of Clinical Series", "UPF Bateman Endoprosthesis Indications", "Indications Film and Discussion", "Cine Studies and Clinical Results - Bateman Prosthesis".
42. University of So. Calif., "Closed Intramedullary Rodding of Femoral Shaft Fractures", May 1, 1980.
43. Society of Graduate Orthopaedic Surgeons LAC-USC Medical Center, "Closed Intramedullary Rodding of Femoral Shaft Fractures", June 6, 1980.
44. New Jersey Orthopaedic Society, Scottsdale, Arizona, "The Dual Lock Total Hip", "Experience with Closed Femoral Nailings", November 12-13, 1980.
45. Modern Concepts in Fracture Management, Univ. of So. Calif., "Open Fractures", "Femoral Shaft Fractures", "Patellar

Fractures", "Supracondylar Fractures of the Humerus", Dec. 1-5, 1980.

46. Hoffman and Ace-Fisher - External Fixation - Current Concepts and Methods, "Joint Fusion with External Fixation", Disneyland Hotel, May 8-9, 1981.
47. Western Orthopaedic Association Annual Mtg., Portland, Ore. "Cementless Vs. Cemented Total Knee Replacement: One to Three and a Half Year Clinical Results" - Discussor, October 5-8, 1981.
48. Orthopaedic Research Society, Las Vegas, Nevada, "Histologic Evaluation of a Xenograft Medial Collateral Ligament Implant", February 24-26, 1981.
49. 7th Annual Conference of the Society for Biomaterials, "Evaluation of a Xenograft Anterior Cruciate Replacement", "Collateral Ligament Replacement with Xenografts", May 28-31, 1981.
50. UCI/Clinica Ortopedica of the University of Florence, Italy, Current Concepts in Childrens Orthopaedics, "Congenital Dislocation of the Hip", "Spinal Deformities", Florence, Italy, October 31-Nov. 7, 1981.
51. DePuy-Neer Orthopaedic Meeting, "Concepts and Techniques of the Dual-Lock", Grand Targhee, Wyoming, March 17-21, 1982.
52. Hoffman External Fixation, "Indications, Non-Unions, Infected Non-Unions and Arthrodesis", July 23, 1982. Disneyland Hotel, Anaheim, Calif.
53. UCI Total Joint Replacement Seminar, "Evaluation of Painful Prosthesis", "Pre-operative Planning", "Biologic Response to Wear Debris", "Total Hip Revision Techniques - Acetabular", Newport Beach, Calif., August 13-15, 1982.
54. University of Nebraska Medical Center, "Dual Lock Total Hip Arthroplasty, Concepts and Results", Omaha, Nebraska, July 28-30, 1983.
55. Xenograft Symposium, "Xenograft Orthopaedic Implant Concept, Biomechanics, Laboratory Results and Clinical Experience", Frankfurt, Germany, September 9, 1983.
56. Current Trends in Total Hip Replacement and Alternative Procedures. "Acetabular Side: Principles and Operative

- Techniques", "The Evidence for Bone Ingrowth", "Aseptic Loosening", San Diego, Calif., Sept. 16-17, 1983.
57. New Jersey Medical School, Department of Surgery. Synthetic Replacement of Ligaments and Tendons, "Xenograft: Indications, Biomechanics, and Early Clinical Results", November 30-December 1, 1983.
 58. Winter Sports Injuries, AAOS, Steamboat Springs, CO, "Skating Injuries", "Prosthetic Ligaments", March 18-25, 1984.
 59. Prosthetic Ligament Reconstruction of the Knee, UCLA Extension "Symposium: Indications for Prosthetic Reconstruction", "Comparative Clinical Analysis of Ligaments", Century City, Calif., April 13-14, 1984.
 60. An Overview of Scoliosis, Loyola Marymount Auditorium, "Overview of Scoliosis", "Adult Scoliosis", "Luque Procedure", September 29, 1984.
 61. Orthopaedic Grand Rounds, Harbor-UCLA Medical Center, "Indication for Surgical Management of Scoliosis", Nov. 9, 1984.
 62. THR: The 80's...and Beyond, M.E. Muller Foundation, "Fracture Problems in THR", "The Evidence for Bone Ingrowth", Nov. 30, 1984 and Dec. 1, 1984.
 63. American Orthopaedic Society for Sports Medicine, 11th Annual Meeting, "Anterior Cruciate Ligament Reconstruction with Bovine Xenografts: Technique, Complications, Results", Nashville, Tenn., June 30-July 3, 1985.
 64. Dow Corning Wright Advisory Panel Meeting, "Cementless Total Knee Replacement", Kiawah Island, So. Carolina, June 20-22, 1985.
 65. UCLA Extension, Sheraton Plaza Palm Springs, Calif. "2nd Annual Prosthetic Ligament Reconstruction of the Knee", March 22-24, 1985.
 66. 4th Annual Symposium, Prosthetic Ligament Reconstruction of the Knee, "Indications for Prosthetic Ligament Reconstruction", "Biomechanics", Palm Springs, Calif., March 25-28, 1987.
 67. Sports Injuries: Beyond Ice and Ace Wraps, "Swimming Injuries", Sept. 27, 1986, Orange, Calif.
 68. Organ and Tissue Donor Awareness Symposium, "Use of Bone

for Transplants", Orange, Calif., May 1, 1987.

69. St. Joseph Hospital Musculoskeletal Educational Institute, The Care and Management of Sports Related Injuries in Athletes, "Head and Neck Injuries", Knee Injuries", "Conditioning and Injury Prevention, Weight Training, Back Injuries, Soft Tissue Injuries", July 18, 1987, Orange, CA
70. St. Joseph Hospital Musculoskeletal Educational Institute, Office Management of Arthritic Complaints: Medical and Orthopaedic Considerations, "Criteria for Joint Replacement, Candidate Selection, Restrictions, Expected Outcome", "Hip Management", Nov. 14, 1987, Orange, CA
71. VIIIth World FINA Medical Congress, Orlando, Florida, "The Incidence of Shoulder Problems in Developing Elite Swimmers", "Lactate Recovery Enhancement by Submaximal Continuous Swimming", December 4-5, 1987.
72. St. Joseph Hospital Musculoskeletal Ed. Inst., Charleston Bending Brace, "The Orange County Experience", Newport Beach, CA, Nov. 11-12, 1988.
73. St. Joseph Hospital Musculoskeletal Ed. Inst., "Total Joint Replacement". No. Orange Senior Center, Orange, CA, Sept. 20, 1988.
74. St. Joseph Hospital Musculoskeletal Ed. Inst., Orthopaedic Nursing Workshop-NAON. "Metabolic Bone Diseases". St. Joseph Hospital, March 3, 1989.
75. St. Joseph Hospital Pacers Club. "Preventing Back Problems". Main Place, Orange, CA March 22, 1989.
76. St. Joseph Hospital Musculoskeletal Ed. Inst., Office Orthopaedics. "Major Joint Problems - Hip and Knee", July 27, 1989, Orange, CA.
77. VIIIth World FINA Medical Congress on Aquatic Sports, "Arthroscopic Surgery of the Subacromial Area in Swimmers", "Isokinetic Torque Evaluations of Shoulders in Elite Swimmers", "Anterior Labrum Damage As a Cause of Pain in Swimmers", London, England, Sept., 1989.
78. St. Joseph Hospital Musculoskeletal Ed. Inst., North Orange

Senior Center, "Total Joint Replacement", Nov. 28, 1989.

79. St. Joseph Hospital Musculoskeletal Ed. Inst., Management of Orthopaedic Injuries, "Occult Hip Injuries", April 18, 1990.
80. Dobi-Symplex, Charleston Bending Brace Seminar, "Charleston Brace for Scoliosis Management - Orange County Experience", June 1, 1990.
81. St. Joseph Hospital Musculoskeletal Ed. Inst., "Total Hip Revision" Seminar, "Wear Debris", November 1, 1991
82. 10th FINA World Sport Medicine Congress, Kyoto, Japan October 25-28, 1993. "Assessment of the Rotator Cuff and a Remedial exercise Program for the Aquatic Athlete".
83. Brusport, 13th Congress of Sports Medicine, Brugge, Belgium, October 14-15, 1994. "Physiological Stress and Overuse in Swimming", "The Swimmer's Shoulder and Knee: Etiology and Therapy".
84. 7th International Symposium on Biomechanics and Medicine in Swimming. Atlanta, Ga. October 18-23, 1994. Keynote Lecture: "Medical Problems in the Swimming Athlete".
85. American Academy Orthopaedic Surgeons, Annual Meeting, Instructional Course, "Ethical Dilemmas in Managed Care", Atlanta Ga., January 1996
86. American Academy Orthopaedic Surgeons, Annual Meeting, Instructional Course, "Orthopaedic Capitation in Managed Care", San Francisco, Ca., January, 1997
87. United States Swimming, Sports Medicine Society, Annual Meeting, "Assessment and Work-up of Swimmer's Shoulder, Olympic Training Center, Colorado Springs, Colo., April 5, 1997
88. California Orthopaedic Association, "Laxity in Swimmer's Shoulders", Annual Meeting, Costa Mesa, Ca, April 19-21, 1997
89. American Orthopaedic Association, "Correlation Between Shoulder Laxity and Interfering Pain in Elite Competitive Swimmers", Annual Meeting, Boca Raton, Fl., June 14-17, 1997
90. American Academy Orthopaedic Surgeons, Annual Meeting, Instructional Course, "Crash Course in Orthopaedic Capitation in Managed Care", New Orleans, LA., March, 1998

91. American Academy Orthopaedic Surgeons, Annual Meeting, Instructional Course, "Orthopaedic Capitation", Anaheim, California, February, 1999.
92. American Academy Orthopaedic Surgeons, Annual Meeting, Instructional Course, "Advanced Orthopaedic Capitation", Orlando, Florida, March, 2000.
93. California Orthopaedic Association, Annual Meeting, Moderator Symposium on Managed Care in Orthopaedic Practice, San Diego, April, 2000.
94. UCI Department of Orthopaedic Surgery Grand Rounds, Avoiding Technical Errors in Total Knee Arthroplasty, July 3, 2001.
95. Lamplighters Orthopaedic Assn. Annual Meeting, Core Decompression of the Patella, Whitefish, MT, August, 2002.
96. Lamplighters Orthopaedic Assn. Annual Meeting, Diagnosis and Management of Infection in Total Knee Arthroplasty, Jacksonville, FL, April, 2003.
97. California Orthopaedic Assn. Annual Meeting, Moderator- "Trends in the Economics of Health Care", May 2, 2003, San Francisco, CA
98. California Orthopaedic Assn. Annual Meeting, Moderator- OREF Research Papers and OREF Resident Research Award-2003, May 2, 2003, San Francisco, CA
99. UCI Department of Orthopaedic Surgery Grand Rounds, Dislocations in Total Hip Arthroplasty, August 21, 2003.
100. LBVAMC Spinal Cord Injury Service Grand Rounds, Management of Extremity Fractures in the SCI Patient, October 2006.
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102. ESKA Users Conference International Symposium: USA Experience with the ESKA GHE Total Hip, March 3, 2007, Lubeck, Germany
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104. American Orthopaedic Assn. 120th Annual Meeting, Symposium: Barriers to Clinical Research: Issues Presented by HIPAA, June 16, 2007, Ashville, N.C.
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110. 34th Annual Scientific Meeting, American Spinal injury Assn.: Surgical Management of Shoulder Dysfunctions, June 21, 2008, San Diego, CA
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117. Western Orthopaedic Association: MRSA Screening for Joint Arthroplasty. August 6, 2010, Monterey, CA
118. Western Orthopaedic Association: Presidential Address: Back to the Past to Understand Our Responsibilities to the Future. August 7, 2010, Monterey, CA

119. VBA/VHA Musculoskeletal Forum: Disabilities of the Hip. August 10, 2010, Washington DC
120. 20th Century Orthopaedic Association, MSRA Screening in Joint Arthroplasty Patients, September 2010, Hilton Head, SC
121. Children's Hosp. LA, 35th JC Wilson Conference, FAI- Pediatric Implications, April 14, 2011, Los Angeles, CA
122. UCI Department of Orthopaedic Surgery Grand Rounds: Tribology I, December 1, 2011
123. UCI Department of Orthopaedic Surgery Grand Rounds : Tribology II, December 15, 2011
124. UCI Department of Orthopaedic Surgery Grand Rounds: Total Knee Arthroplasty Technical Tips. February 16, 2012
125. UCI Department of Orthopaedic Surgery Grand Rounds: Management and Prevention of Total Hip Arthroplasty Dislocation. March 1, 2012
126. UCI Department of Orthopaedic Surgery Grand Rounds: Total Knee Arthroplasty Ligament Balancing. March 22, 2012
127. Lamplighters Orthopaedic Association: A Short History of Hip Arthroplasty, Chicago, IL, October 12, 2012
128. UCI Department of Orthopaedics, R1 Boot Camp, Total knee arthroplasty, July 11, 2014
129. UCI Department of Orthopaedic Surgery Grand Rounds: Challenge of the Varus and Valgus Knee, August 28, 2014
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