

ROY SANDERS, M.D.

CURRICULUM VITAE
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PERSONAL DATA

NAME ROY W. SANDERS, M.D.

BUSINESS ADDRESS FLORIDA ORTHOPAEDIC INSTITUTE
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EDUCATIONAL BACKGROUND

UNIVERSITY	<i>City University of New York Queens College,</i> B.A., June 1975, Flushing, New York
MEDICAL SCHOOL	<i>New York University School of Medicine,</i> M.D., June 1980, New York City, New York
INTERNSHIP	<i>Beth Israel Medical Center,</i> July 1, 1980 - June 30, 1981 New York City, New York

SPECIAL TRAINING

RESIDENCY	<i>Hospital for Joint Diseases Orthopaedic Institute,</i> 1981-85, New York, New York
	<i>Maryland Institute for Emergency Medical Services,</i> July 1, 1983 - December 31, 1983, Baltimore, Maryland

FELLOWSHIPS

1. *Musculoskeletal Trauma*

DEPARTMENT OF ORTHOPAEDICS
VANDERBILT UNIVERSITY MEDICAL CENTER
WITH MARC SWIONTKOWSKI, M.D.
NASHVILLE, TENNESSEE
JULY 1, 1985 - DECEMBER 31, 1985

2. *AO/ASIF Jack McDaniels Memorial Fellowship*

A. KLINIKUM RECHTS DER ISAR
WITH PROFESSOR DR. BERNDT
CLAUDI - MUNICH, GERMANY
SEPTEMBER 1, 1986 - OCTOBER 15, 1986

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B. KANTONSSPITAL CHUR
WITH PROFESSOR DR. T. RUEDI
CHUR, SWITZERLAND
OCTOBER 16, 1986 - NOVEMBER 30, 1986

3. AO Foot Fellowship

HARBORVIEW MEDICAL CENTER
WITH DR. SIGVARD HANSEN
SEATTLE, WASHINGTON
AUGUST 20, 1988 - SEPTEMBER 20, 1988

MILITARY SERVICE

NONE

ACADEMIC, HOSPITAL , and BUSINESS APPOINTMENTS

A. ACADEMIC APPOINTMENTS

INSTRUCTOR

DEPARTMENT OF ORTHOPAEDICS
VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE
JULY, 1985 - MARCH, 1987

ASSISTANT PROFESSOR

DEPARTMENT OF ORTHOPAEDICS
VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE
APRIL, 1987 - OCTOBER, 1987

ASSISTANT PROFESSOR

DEPARTMENT OF ORTHOPAEDICS
UNIVERSITY OF SOUTH FLORIDA, TAMPA, FLORIDA
OCTOBER, 1987 - AUGUST, 1989

CLINICAL ASSISTANT PROFESSOR OF ORTHOPAEDICS

UNIVERSITY OF SOUTH FLORIDA, TAMPA, FLORIDA
AUGUST 1, 1989 - JULY 30, 1992

CLINICAL ASSOCIATE PROFESSOR OF ORTHOPAEDICS

UNIVERSITY OF SOUTH FLORIDA, TAMPA, FLORIDA
AUGUST 1, 1992 - OCTOBER 31, 1996

CLINICAL PROFESSOR OF ORTHOPAEDICS

UNIVERSITY OF SOUTH FLORIDA, TAMPA, FLORIDA
NOVEMBER 1, 1996 – AUGUST 4, 2005

CLINICAL ASSOCIATE PROFESSOR

DEPARTMENT OF OSTEOPATHIC SURGICAL SPECIALTIES
MICHIGAN STATE UNIVERSITY, COLLEGE OF OSTEOPATHIC MEDICINE
EAST LANSING, MICHIGAN
JULY 1, 1999 – JUNE 30, 2000

B. HOSPITAL POSITIONS

CHIEF, DEPARTMENT OF ORTHOPAEDICS

NASHVILLE GENERAL HOSPITAL, NASHVILLE, TENNESSEE
JANUARY, 1986 - OCTOBER, 1987

FULL-TIME ACADEMIC FACULTY

VANDERBILT UNIVERSITY MEDICAL CENTER, NASHVILLE, TENNESSEE
JULY, 1985-OCTOBER, 1987

ASSOCIATE DIRECTOR, ORTHOPEDIC TRAUMA SERVICE

THE TAMPA GENERAL HOSPITAL, TAMPA, FLORIDA
OCTOBER, 1988 - JUNE 1991

SECRETARY/TREASURER, DEPARTMENT OF ORTHOPEDICS

THE TAMPA GENERAL HOSPITAL, TAMPA, FLORIDA
SEPTEMBER, 1989 - SEPTEMBER 1991

DIRECTOR, ORTHOPEDIC TRAUMA SERVICE

THE TAMPA GENERAL HOSPITAL, TAMPA, FLORIDA
JULY 1991 - PRESENT

DIRECTOR, FELLOWSHIP IN ORTHOPEDIC TRAUMA

THE TAMPA GENERAL HOSPITAL, TAMPA, FLORIDA
JULY 1991 - PRESENT

CHIEF, DEPARTMENT OF ORTHOPAEDICS

THE TAMPA GENERAL HOSPITAL, TAMPA, FLORIDA
OCTOBER 1991 – PRESENT

C. COMPANY POSITIONS

VICE-PRESIDENT

FLORIDA ORTHOPAEDIC INSTITUTE, TAMPA, FLORIDA
JANUARY 1992 - DECEMBER 1994

PRESIDENT AND CHAIRMAN OF THE BOARD

FLORIDA ORTHOPAEDIC INSTITUTE, TAMPA, FLORIDA
JANUARY 1995 - PRESENT

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BOARD OF DIRECTORS

FLORIDA INSTITUTE OF SURGICAL SUBSPECIALTIES, TAMPA, FLORIDA
JANUARY 1993 - PRESENT

BOARD OF DIRECTORS

WEST FLORIDA SPECIALTY NETWORK, TAMPA, FLORIDA
OCTOBER 1996 - 1999

D. EDITORIAL POSITIONS

1. **EDITORIAL BOARD**

JOURNAL OF ORTHOPAEDIC TRAUMA
JANUARY 1989 - DECEMBER 1995

2. **EDITOR-IN-CHIEF**

JOURNAL OF ORTHOPAEDIC TRAUMA
LIPPINCOTT-RAVEN PUBLISHERS
JANUARY 1996 - PRESENT

E. OTHER POSITIONS

EXECUTIVE DIRECTOR

FLORIDA ORTHOPAEDIC SOCIETY, TAMPA, FLORIDA
JUNE 1994 – AUGUST, 1999

PRESIDENT-ELECT

ORTHOPAEDIC TRAUMA ASSOCIATION
OCTOBER, 2003 – MARCH, 2004

PRESIDENT

ORTHOPAEDIC TRAUMA ASSOCIATION
MARCH, 2004 – FEBRUARY, 2005

SCHOLARLY HONORS AND AWARDS

PHI BETA KAPPA 1975

AO/ASIF INTERNATIONAL JACK MCDANIELS MEMORIAL AWARD, 1986

EASTERN ORTHOPEDIC ASSOCIATION BEST PAPER AWARD, 1989

EASTERN ORTHOPEDIC ASSOCIATION BEST PAPER AWARD, 1990

FLORIDA ORTHOPEDIC SOCIETY BEST RESIDENT PAPER, 1990

FLORIDA ORTHOPEDIC SOCIETY BEST OVERALL PAPER, 1991

ORTHOPEDIC TRAUMA ASSOCIATION

EDWARD BOVILL AWARD FOR BEST SCIENTIFIC PAPER, 1992

ORTHOPEDIC TRAUMA ASSOCIATION

EDWARD BOVILL AWARD FOR BEST SCIENTIFIC PAPER, 1993

AMERICAN BRITISH CANADIAN FELLOWSHIP

AMERICAN ORTHOPAEDIC ASSOCIATION 1993 TOUR (ALTERNATE)

AMERICAN ORTHOPAEDIC FOOT AND ANKLE ASSOCIATION

ROGER MANN AWARD FOR BEST SCIENTIFIC PAPER, 1998

**AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS AND
ORTHOPAEDIC RESEARCH AND EDUCATION FOUNDATION**

KAPPA DELTA AWARD FOR OUTSTANDING CLINICAL RESEARCH
RELATED TO THE MUSCULOSKELETAL SYSTEM (LEAP STUDY, 2003)

FLORIDA ORTHOPAEDIC INSTITUTE

ELECTED BY PEERS FOR INCLUSION IN BEST DOCTORS IN AMERICA
(1992 – 2006)

SCHOLARLY SOCIETY MEMBERSHIPS

- A. NASHVILLE ORTHOPAEDIC SOCIETY, NOVEMBER, 1985
- B. TENNESSEE MEDICAL ASSOCIATION, JUNE, 1986
- C. NASHVILLE ACADEMY OF MEDICINE, JULY, 1986
- D. SOUTHERN MEDICAL SOCIETY, OCTOBER, 1986
- E. SOUTHERN ORTHOPAEDIC SOCIETY, OCTOBER, 1986
- F. VANDERBILT ORTHOPAEDIC SOCIETY, FEBRUARY, 1987
- G. ORTHOPAEDIC TRAUMA ASSOCIATION, FEBRUARY, 1988
- H. ORTHOPAEDIC RESEARCH SOCIETY, FEBRUARY, 1988
- I. FLORIDA ORTHOPAEDIC SOCIETY, FEBRUARY, 1988
- J. AMERICAN COLLEGE OF SURGEONS COMMITTEE ON TRAUMA, MAY, 1988
- K. INTERNATIONAL SOCIETY OF ORTHOPAEDIC SURGEONS AND TRAUMATOLOGY (S.I.C.O.T.), NOVEMBER, 1989
- L. AMERICAN ORTHOPAEDIC FOOT AND ANKLE SOCIETY (A.O.F.A.S.), JUNE, 1990.
- M. AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS, MARCH 1991
- N. ACADEMIC ORTHOPAEDIC SOCIETY, NOVEMBER, 1991
- O. AMERICAN ORTHOPAEDIC ASSOCIATION, JULY, 1994

LICENSURE AND CERTIFICATION

A. LICENSURE

NEW YORK	1981 - #147986	(INACTIVE)
NORTH CAROLINA	1984 - #28336	(INACTIVE)
TENNESSEE	1985 - #16380	(INACTIVE)
CALIFORNIA	1986 - #G57406	(ACTIVE)
FLORIDA	1987 - #52022	(ACTIVE)

B. Board Certification

NATIONAL BOARD OF MEDICAL EXAMINERS
JULY 1, 1981 - # 209609

AMERICAN BOARD OF ORTHOPEDIC SURGERY
AUGUST 1, 1989 - NO NUMBER

RECERTIFIED, SEPTEMBER, 1994
(VALID UNTIL JULY, 2009)

COMMITTEE ASSIGNMENTS

Local:

EXECUTIVE COMMITTEE, NASHVILLE GENERAL HOSPITAL
NOVEMBER, 1985 - OCTOBER, 1987

OPERATING ROOM COMMITTEE, NASHVILLE GENERAL HOSPITAL
NOVEMBER, 1985 - OCTOBER, 1987

MEDICAL RECORDS COMMITTEE, NASHVILLE GENERAL HOSPITAL
NOVEMBER, 1985 - OCTOBER, 1987

EDUCATION COMMITTEE, TAMPA ORTHOPAEDIC RESIDENCY PROGRAM
JULY, 1991 - JUNE, 1995

EXECUTIVE COMMITTEE, TAMPA GENERAL HOSPITAL
OCTOBER 1991 - PRESENT

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SURGICAL SUITE COMMITTEE, TAMPA GENERAL HOSPITAL
OCTOBER 1991 - PRESENT

MEDISGROUP COMMITTEE, TAMPA GENERAL HOSPITAL
SEPTEMBER, 1993 - PRESENT

SEARCH COMMITTEE FOR O.R. DIRECTOR, TAMPA GENERAL HOSPITAL
SEPTEMBER - DECEMBER, 1994

Regional:

CHAIRMAN, COMMITTEE ON TRAUMA
FLORIDA ORTHOPAEDIC SOCIETY
JUNE 1992 - 1994

EXECUTIVE COMMITTEE
FLORIDA ORTHOPAEDIC SOCIETY
JUNE 1992 – AUGUST, 1999

National:

AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS
1. **Chairman, Committee on Trauma**

ORTHOPEDIC TRAUMA ASSOCIATION
1. **MEMBER**, COMMITTEE ON CODING AND CLASSIFICATION
2. **CHAIRMAN**, COMMITTEE ON FELLOWSHIPS (1994)
3. **LOCAL HOST**, ANNUAL MEETING, TAMPA (1995)
4. PROGRAM COMMITTEE, ANNUAL MEETING (1995)

AMERICAN ORTHOPAEDIC FOOT AND ANKLE SOCIETY
1. **CHAIRMAN**, COMMITTEE ON TRAUMA

AMERICAN BOARD OF ORTHOPAEDIC SURGEONS
1. **Oral Board Examiner, 1994, 1995, 1996, 1997**

International:

AO INTERNATIONAL FOUNDATION
1. MEMBER, BOARD OF TRUSTEES

BIBLIOGRAPHY

Publications in a Refereed Journal

1. Swiontkowski M.F., Collins, J.C., Schlehr F.J., Pou, A., **Sanders, R.**: CORRELATION OF LASER DOPPLER FLOWMETRY WITH MICROSPHERE ESTIMATES FOR BONE BLOOD FLOW. *Microcirculation-An Update*: 1987; Vol. 1, 341-343.
2. Swiontkowski, M.F., Schlehr, F.J., Collins, J.C., Pou, A., **Sanders, R.**: THE USE OF LASER DOPPLER FLOWMETRY TO EVALUATE MENISCAL PERFUSION. *Microcirculation-An Update*: 1987; Vol. 2, 521-523.
3. **Sanders, R.**: THE DYNAMIC CONDYLAR SCREW IN THE TREATMENT OF FEMORAL FRACTURES. *Mediguide to Orthop.* 1988; Vol. 8, no.4: 1-6.
4. Swiontkowski, M.F., Schlehr, M., **Sanders, R.**, Limbird, T.A., Pou, A., Collins, J.C.: DIRECT REAL TIME MEASUREMENT OF MENISCAL BLOOD FLOW- AN EXPERIMENTAL INVESTIGATION IN SHEEP. *Amer. J. Sports Med.*, 1988; 16(5):425-433.
5. Swiontkowski, M.F., Schlehr, F., Collins, J.C., **Sanders, R.**, Pou, AL.: COMPARISON OF TWO LASER DOPPLER FLOWMETRY SYSTEMS FOR BONE BLOOD FLOW ANALYSIS. *Calc. Tiss. Int.* 1988; 43:103-107.
6. Holbrook, J., Swiontkowski, M., **Sanders, R.**: TREATMENT OF OPEN FRACTURES OF THE TIBIAL SHAFT: ENDER NAILING VERSUS EXTERNAL FIXATION. A RANDOMIZED, PROSPECTIVE COMPARISON. *J. Bone Joint Surg*, 1989; Vol: 71-A(8):1231-1238.
7. **Sanders, R.**, Regazzoni, P., Ruedi, T.: THE TREATMENT OF SUPRACONDYLAR AND INTRACONDYLAR FRACTURES OF THE FEMUR USING A SUPRACONDYLAR PLATE AND LAG SCREW. *J. Ortho. Trauma.* 1989; Vol 3, No. 3:214-222.

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8. **Sanders, R.**, Regazzoni, P.: THE TREATMENT OF SUBTROCHANTERIC FEMUR FRACTURES USING THE DYNAMIC CONDYLAR SCREW. J. Orthop. Trauma 1989; Vol. 3, No. 3:206-213.
9. **Sanders, R.**, DiPasquale, T.: THE TREATMENT OF ACUTE PELVIC FRACTURES USING ANTERIOR EXTERNAL FIXATION. Tech. Orthop. 1989; Vol. 4 No. 4:60-64.
10. **Sanders, R.**, DiPasquale, T: A NEW TECHNIQUE FOR BONE GRAFTING. J. Orthop. Trauma. 1989; Vol. 3, No. 4:287-290.
11. **Sanders, R.**, Fortin, P. Ross, E., Helfet, D: THE EFFICACY OF SURGICAL CLOTH GLOVES IN THE PREVENTION OF LATEX GLOVE PUNCTURES. J. Bone Joint Surg., 1990; Vol. 72A, No. 6:914-917.
12. Swiontkowski M.F., Schlehr, F.J., Collins, J.C., Pou, A., **Sanders, R.**: CORRELATION OF LASER DOPPLER FLOWMETRY WITH MICROSPHERE ESTIMATES FOR BONE BLOOD FLOW, BONE CIRCULATION AND BONE NECROSIS. Fourth International Symposium on Bone Circulation, Springer-Verlag, 1990; 121-12
13. **Sanders, R.**: TRAUMA TO THE FOOT AND ANKLE. Current Opinion in Ortho 1990; Vol. 2, No. 1:11-15.
14. Helfet, D., Howey, T., **Sanders, R.**, Johansen, K.: LIMB SALVAGE VERSUS AMPUTATION: PRELIMINARY RESULTS OF THE MANGLED EXTREMITY SEVERITY SCORE. Clin Orthop Rel Res 1990; No. 256:80-86.
15. **Sanders, R.**, Helfet, D.: THE CHOICE BETWEEN LIMB SALVAGE AND AMPUTATION. Fl. Ortho. Soc. Bull. 1991; Vol. 21, No. 2:35-40.
16. **Sanders, R.**: TRAUMA TO THE FOOT AND ANKLE. Current Opinion in Ortho, 1991; Vol 3, No 2:26-27.

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17. **Sanders, R.**, Swiontkowski, M., Helfet, D., Rosen, H.: DOUBLE PLATING OF THE DISTAL FEMUR. J. Bone Joint Surg., 1991; Vol. 73A, No. 3:341-346.
18. Koval, K., **Sanders, R.**, Borelli, J., Helfet, D., DiPasquale, T.: INDIRECT REDUCTION AND PERCUTANEOUS FIXATION OF DISPLACED TIBIAL PLATEAU FRACTURES. J. Ortho. Trauma, 1992; Vol. 6., No. 3:340-346.
19. **Sanders, R.**, Pappas, J., Mast, J., Helfet, D.: THE SALVAGE OF OPEN GRADE IIIB ANKLE AND TALUS FRACTURES. J. Ortho. Trauma, 1992; Vol 6., No. 2. 201-208.
20. Martinez, C., DiPasquale, T., Helfet, D., Graham, A., **Sanders, R.**, Ray, L.: EVALUATION OF ACETABULAR FRACTURES WITH TWO-AND THREE-DIMENSIONAL CT1. RadioGraphics, 1992; Vol. 12, No. 2:227-242.
21. **Sanders, R.**: THE TREATMENT OF INTRA-ARTICULAR FRACTURES OF THE CALCANEUS: PRESENT STATE OF THE ART. J. Ortho. Trauma, 1992; Vol. 6, No. 2: 252-265.
22. Helfet, D.L., Borelli, J. Jr., DiPasquale, T. and **Sanders, R.**: STABILIZATION OF ACETABULAR FRACTURES IN ELDERLY PATIENTS. J. Bone Joint Surg., 1992; Vol. 74A, No. 5: 753-765.
23. Perry, C., Bruekman, H., Pankovich, A., **Sanders, R.**: THE TREATMENT OF FRACTURES USING FLEXIBLE NAILS. Instructional Course Lectures, 1992; Vol. 42.
24. Koval, K., **Sanders, R.**: CONVENTIONAL AND CT EVALUATION OF CALCANEAL FRACTURES. Clin. Ortho. Rel. Res. 1992; #290: 41-46.
25. Koval, K., **Sanders, R.**, Zuckerman, J., Helfet, D., Kummer, F., and DiPasquale, T.: MODIFIED TENSION BAND WIRING OF DISPLACED SURGICAL NECK FRACTURES OF THE HUMERUS. J. Shoulder Elbow Surg. 1993; (2)2:85-92.

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26. **Sanders, R.**, Koval, K., Schmelling, G., DiPasquale, T., and Ross, E.: RADIATION TO THE ORTHOPAEDIC SURGEON. J.Bone Joint Surg, 1993; Vol. 75A, No. 3.
27. **Sanders, R.**, Fortin, P., Walling, A., DiPasquale, T.: RESULTS OF OPERATIVE TREATMENT OF CALCANEAL FRACTURES USING A CT SCAN CLASSIFICATION. Clin. Orthop. Rel. Res., 1993; #290.
28. **Sanders, R.**, Koval, K., Frankel, M., Helfet, D.L., and DiPasquale, T.: RETROGRADE REAMED FEMORAL NAILING. J. Ortho. Trauma, 1993; Vol. 7, No. 4: 293-302.
29. **Sanders, R.**, Swiontkowski, M., Nunley, J., Spiegel, P.: FRACTURES WITH SOFT TISSUE DISRUPTIONS. J.Bone Joint Surg., 1993; Vol. 75A, No. 5.
30. **Sanders, R.**, Swiontkowski, M., Nunley, J., Spiegel, P.: THE MANAGEMENT OF OPEN FRACTURES. Instructional Course Lectures, 1993; Vol. 43.
31. Helfet, D., Koval, K., Pappas J., **Sanders, R.**, Mast, J.: THE DISTAL TIBIAL INTRA-ARTICULAR PILON FRACTURE. Clin. Orthop. Rel. Res., 1993; Vol 297.
32. Perry, CR., Brueckmann, FR., Pankovich, AM., **Sanders, RW.**, Waddell, JP.: FLEXIBLE INTRAMEDULLARY NAILING OF LONG BONE FRACTURES. Instructional Course Lectures, 1993; Vol. 42.
33. Howey, T., Helfet, D., DiPasquale, T., **Sanders, R.**, Zinar, B., Pompan, D., Brooker, A. THE TREATMENT OF OPEN AND/OR UNSTABLE TIBIAL FRACTURES WITH AND UNREAMED DOUBLE-LOCKED TIBIAL NAIL. Orthop. Rev., 1994; Vol. 23, #2.

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34. **Sanders, R.**, Jersinovich, I., Anglen, J., DiPasquale, T., Herscovici, D. THE TREATMENT OF OPEN TIBIAL SHAFT FRACTURES USING AN INTERLOCKED INTRAMEDULLARY NAIL WITHOUT REAMING. J. Orthop. Trauma. 1994; Vol. 8(6): 504-510.
35. Toolan, B.C., Koval, K.J., Kummer, F.J., **Sanders, R.**, Zuckerman, J.: VERTICAL SHEAR FRACTURES OF THE MEDIAL MALLEOLUS: A BIOMECHANICAL STUDY OF FIVE INTERNAL FIXATION TECHNIQUES. Foot and Ankle Int., 1994; Vol. 15, No. 9: 483-489.
36. **Sanders, R.**, Anglen, J., and Mark, B.: OBLIQUE OSTEOTOMY FOR THE TREATMENT OF TIBIAL MALUNIONS J. Bone Joint Surg. 1995; 77A, No. 2.
37. Helfet, D., Koval, K.J., Hissa, E.A., Patterson, S., DiPasquale, T., and **Sanders, R.**: INTRAOPERATIVE SOMATOSENSORY EVOKED POTENTIAL MONITORING DURING ACUTE PELVIC FRACTURE SURGERY. J Orthop Trauma, 1995; 9(1), 28-34.
38. **Sanders, R.**, Gregory, P.: THE OPERATIVE TREATMENT OF INTRA-ARTICULAR FRACTURES OF THE CALCANEUS. Orthop. Clin. N. Amer. 1995; Vol. 26 (2): 203-214.
39. **Sanders, R.**, and Gregory, P.: THE TREATMENT OF DISTAL FEMUR FRACTURES USING THE DYNAMIC CONDYLAR SCREW. Tech. Orthop., 1995.
40. Gregory, P. and **Sanders, R.**: THE TREATMENT OF CLOSED, UNSTABLE TIBIAL SHAFT FRACTURES WITH AN UNREAMED INTERLOCKING INTRAMEDULLARY NAIL: PRELIMINARY RESULTS. Clin. Orthop. Rel. Res., 1995; Vol. 315: 48-55.
41. Gregory, P. and **Sanders, R.**: THE TREATMENT OF FLOATING KNEE INJURIES USING RETROGRADE FEMORAL AND ANTEGRADE TIBIAL NAILS. Clin. Orthop. Rel. Res., 1995; Vol. 318.

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42. Herscovici, D. Jr., **Sanders, R.**, DiPasquale, T., and Gregory, P.: INJURIES OF THE SHOULDER GIRDLE Clin. Orthop. Rel. Res., 1995; Vol. 318: 54-60.
43. Koval, K., Zuckerman, J., and **Sanders, R.**: THE TREATMENT OF POLYTRAUMA IN THE ELDERLY. Clin. Orthop. Rel. Res., 1995; Vol. 318, September.
44. Gregory, P., **Sanders, R.**: THE MANAGEMENT OF SEVERE FRACTURES OF THE LOWER EXTREMITIES. Clin. Orthop. 1995; (318): 95-105.
45. Gregory, P., DiCiccio, J., Karpik, K. DiPasquale, T., Herscovici, D., and **Sanders, R.**: IPSILATERAL FRACTURES OF THE FEMUR AND TIBIA: TREATMENT WITH RETROGRADE FEMORAL NAILING AND UNREAMED TIBIAL NAILING. J Orthop Trauma 1996; 10(5):309-316
46. Stephens HM, **Sanders R.**: CALCANEAL MALUNIONS: RESULTS OF A PROGNOSTIC COMPUTED TOMOGRAPHY CLASSIFICATION SYSTEM. Foot Ankle Int 1996; 17(7):395-401.
47. Gregory P, DiPasquale T, Herscovici D, **Sanders R.**: IPSILATERAL FRACTURES OF THE TALUS AND CALCANEUS Foot Ankle Int 1996; Nov 17(11):701-705.
48. Gregory, P. and **Sanders, R.**: FOOT AND ANKLE TRAUMA: Orthopaedic Knowledge Update: Trauma, 1996.
49. Gregory, P., and **Sanders, R.**: COMPRESSION PLATING VERSUS INTRAMEDULLARY FIXATION OF HUMERAL SHAFT FRACTURES. J.Am.Acad.Orthop.Surg.1997; 5(4):215-223.
50. Ring, D., Jupiter, J., Mast, J., **Sanders, R.**: TRANSOLECRANON FRACTURE DISLOCATIONS OF THE ELBOW. J. of Orthop. Trauma, 1997; Nov; 11(8):545-550.

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51. Herscovici, D., DiPasquale, T., **Sanders, R.**: COMPARISON OF CLOTH GLOVES USED IN ORTHOPAEDIC SURGERY. A CLINICAL AND EXPERIMENTAL EVALUATION. J. of Orthop. Trauma, 1998 Feb; 12(2):106-110.
52. Frankle, M., Cordey, J., **Sanders, R.W.**, Koval, K., Perren, S.M.: A BIOMECHANICAL COMPARISON OF THE ANTEGRADE INSERTED UNIVERSAL FEMORAL NAILO WITH THE RETROGRADE INSERTED UNIVERSAL TIBIAL NAIL FOR USE IN FEMORAL SHAFT FRACTURES. Injury 1999; 30 Suppl 1:A40-43.
53. Sirkin, M., **Sanders, R.**, DiPasquale, T., Herscovici, D.: A STAGED PROTOCOL FOR SOFT TISSUE MANAGEMENT IN THE TREATMENT OF COMPLEX PILON FRACTURES. J. Orthop. Trauma, 1999; 13:78-84
54. Frankle, MA., Koval, KJ., **Sanders, RW.**, Zuckerman, JD.: RADIAL HEAD FRACTURES ASSOCIATED WITH ELBOW DISLOCATIONS TREATED BY IMMEDIATE STABILIZATION AND EARLY MOTION. J. Shoulder Elbow Surg 1999; Jul – Aug; 8(4): 355-360.
55. Herscovici, D., **Sanders, R.**: FRACTURES OF THE TARSAL NAVICULAR. Foot and Ankle Clinics 1999 September; 4(3): 587-601.
56. Herscovici, D., Ricci, W., McAndrews, P., DiPasquale, T., **Sanders, R.**: THE TREATMENT OF FEMORAL SHAFT FRACTURE USING UNREAMED INTERLOCKED NAILS. J Orthop. Trauma. 2000 Jan; 14(1): 10-14.
57. **Sanders, R.**: DISPLACED INTRA-ARTICULAR FRACTURES OF THE CALCANEUS. J Bone Joint Surg AM. 2000 Feb; Vol. 82(2): 225-250.
58. Flemister, AS. Jr., Infante, AF., **Sanders, RW.**, Walling, AK.: SUBTALAR ARTHRODESIS FOR COMPLICATIONS OF INTRA-ARTICULAR CALCANEAL FRACTURES. Foot &

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- Ankle Int. 2000, May; 21(5): 392-399.
59. Collinge, C., **Sanders, R.**, DiPasquale, T.: TREATMENT OF COMPLEX TIBIAL PERIARTICULAR FRACTURES USING PERCUTANEOUS TECHNIQUES. *Corr.* 2000 June; No. 375: 69 – 77.
 60. Herscovici, D., Saunders, D., Johnson, M., **Sanders, R.**, DiPasquale, T.: PERCUTANEOUS FIXATION OF PROXIMAL HUMERAL FRACTURES. *CORR* 2000 June; No. 375: 97 – 104.
 61. Herscovici, D., **Sanders, R.**: THE EFFECTS, RISKS, AND GUIDELINES FOR RADIATION USE IN ORTHOPAEDIC SURGERY. *CORR* 2000 June; No. 375: 126 – 132.
 62. Herscovici, D., **Sanders, R.**, Infante, A., DiPasquale, T.: BOHLER INCISION: AN EXTENSILE ANTEROLATERAL APPROACH TO THE FOOT AND ANKLE. *J Orthop. Trauma.* 2000 August; 14(6): 429-432.
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RESEARCH SUPPORT

1. Laser Doppler Flowmetry for Bone Blood Flow.
Source: AO Foundation, Principal Investigator: Swiontkowski, M.
Co-investigators: Sanders, R., Pou, A., Schlehr, F., Collins, J.C.,
July 1, 1986 - July 1, 1988. Closed
Amount: SF 55,000.
2. Fibrillar Collagen/Calcium Phosphate Ceramic (COLHAP), Phase II.
Source: Zimmer Inc. 1987, Principal Investigator: Spiegel, P.,
Co-investigators: Helfet, D., Belsole, R., Sanders, R., Gustke, K.,
Bernasek, T., Walling, A., Leffers, D., DiPasquale, T., Beatty, M.,
Greene, T., Rechtine, G., March, 1987 - Dec. 1992. Amount: \$20,000.
Closed
3. The Development of an Orthopedic Trauma Registry Database.
Source: AO North America. Principal Investigator: Sanders, R.
Co-investigator: Swiontkowski, M.
January, 1988 - December 1992. Closed
Amount: \$55,000.
4. Biomechanical Analysis Of Retrograde Nailing Of The Femur.
Source: AO Foundation. Principal Investigator: Sanders, R.
Co-investigators: Frankle, M., Cordey, J. and Perren, S.
July 1, 1990 - July 1, 1991. Closed
Amount: SF 28,000.
5. The Design and Development of a New Plate for Calcaneal Fractures.
Source: AO North America.
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Amount: \$40,000.
6. Mortality Rate with Early Total Care.
Source: AO International, and the Orthopaedic Trauma Association.
Principal Investigator: Bone, Lawrence.
Co-investigators: Sanders, R., Brumback, R., Swiontkowski, M. and
Meek, R.
January, 1990 - Closed
Amount: \$120,000.

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7. Minimal vs. Optimal Fixation for Transverse Fractures of the Ulna.
Source: Shriner's Hospital System. Principal Investigator: Sanders R.
Co-investigators: Milne, T., Latta, L. Ogden, J.
June, 1991 - December, 1991. Closed
Amount: \$7,500.

8. Amputation versus Reconstruction following Limb Threatening Injuries
Source: National Institute of Arthritis, Musculoskeletal, and Skin Diseases.
Grant # 1520595110A5.
Principal Investigator: McKenzie, Ellen. Co-Principal Investigator: Bosse, Michael.
Co-Investigators: Swiontkowski, M., Sanders,R., Webb, L., Alonzo, J., Agnew, S., McAndrew, M, Kellam, J., and Edwin, D.
July, 1993 - Closed
Amount: \$2,835,500 – (Total Project)

9. An Efficacy and Safety Study of rhBMP-2/ Absorbable Collagen Sponge (ACS) in Open Tibia Shaft Fractures Requiring Surgical Management
Source: Genetics Institute
Grant #: C9612-11
Principal Investigator: Sanders, R.
Co-Investigators: Dipasquale, T., and Herscovici, Dolfi
August, 1996 – June, 1999. Closed
Amount: \$50,000

10. An Ascending Dose Safety and Feasibility Study of OSSIGEL in The Management of Extraarticular Fractures of the Distal Radius
Source: ORQUEST, Inc.
Grant #: 97-01
Principal Investigator: Sanders, Roy
Co-Investigators: DiPasquale, T., and Herscovici, D.
January, 1998 – March, 1999. Closed
Amount: \$5,000

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11. *An Ascending Dose Safety and Feasibility Study of Ossigel™ in the Management of Diaphyseal Fractures of the Tibia.*
Source: Ossigel, Inc.
Grant #: 98-01
Investigator: Sanders, R.
Co-Investigators: DiPasquale, T., Herscovici, D., Infante, A., Lindvall, E., Sagi, C., Steinlauf, S., and Yach, J.
March, 1998 – June, 2001. Closed
\$55,000.00

12. *A Feasibility and Safety Study of Recombinant Human Bone Morphogenetic Protein-2/Absorbable Collagen Sponge (rhBMP-2/ACS) and Allograft Compared to Autogenous Bone Graft in Patients with Severe Tibial Shaft Fractures Requiring Staged Reconstruction with Bone Graft.*
Source: Genetics Institute
Grant #: C9910-11
Investigator: Sanders, R.
Co-Investigators: DiPasquale, T., Herscovici, D., Infante, A., Lindvall, E., Sagi, H., Steinlauf, S., and Yach, J.
September, 1999 – March, 2001. Closed
\$55,000.00

13. *A Multicenter Randomized Single Blind Red Blood Cell Controlled Parallel Group Study To Evaluate The Effect On Allogenic Red Blood Cells Use And The Safety Of Room Temperature Stable Hemoglobin Based Oxygen Carrier 201 (HBOC-201) When Administered Therapeutically And Perioperatively In Orthopedic Surgery Patients Who Have Not Received Erythropoietin Nor Undergone Preoperative Autologous Blood Donation*
Source: Biopure Corporation
Grant #: HEM-0115
Principal Investigator: Sanders, R.
Co-Investigators: DiPasquale, T., and Herscovici, D.
January, 2000 – September, 2000. Closed
Amount - \$50,000

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14. Study to Prospectively Evaluate Reamed Intramedullary Nails in Tibial Fractures: A Multi-Centre Randomized Trial of Reamed Versus Non-Reamed Intramedullary Nailing
Source: Medical Research Council of Canada
Co-Principal Investigators: Guyatt, G., Swiontkowski, M
Co-investigators: Bhandari, M., Walter, S., O'Brien, B., Leighton, R., Kredor, H., Schemitsch, E., McKee, M., McCormack, R., Powell, J., Buckley, R., Lammens, P., Agnew, S., Sanders, R., Tornetta, P., Obremskey, W.
July, 2000 – December, 2000. Closed
Amount - \$200,000

15. Gastrocnemius Resection in the adult
Source: AOFAS
Principal Investigator: Steinlauf, S.
Co-Investigators: Walling, A., Sanders, R.
May, 2000 – Closed
Amount \$7,000

PATENTS ISSUED

Orthopaedic Bone Screw Apparatus: Patent # 5,989,255 Trigen
Intramedullary Nail Hybrid Bow: Patent # 6,010,506 Trigen
Minimally Invasive Intramedullary Nail Insertion: Patent # 5,951,561 Trigen
Method for Treating Orthopedic Fractures with a Fixation Member: Patent # 6,361,538
Intramedullary Nail with Non-Metal Spacers: Patent # 6,296,645
Fixation Member for Treating Orthopedic Fractures: Patent # 6,228,087
Blade for Resection of Bone for Prosthesis Implantation, Blade Stop and Method:
Patent # 6,875,222
Bone Fracture Support Implant with Non-Metal Spacers:
Patent # 6,786,908
Non-Metal Inserts for Bone Support Assembly: Patent # 6,783,529
Non-Metal Spacers for Intramedullary Nail: Patent # 6,709,436
Plate for Fusion of the Metatarso-Phalangeal Joint: Patent #06251837.8 DePuy
Metatarsal Fixation Plate: Patent #06251836.0 DePuy
Mid-Foot Fixation Plate: Patent # 06251809.7 DePuy
Fixation Device for the Talus: Patent # 06251815.4 DePuy
Navicular Fixation Device: Patent # 06251814.7 DePuy
Devices System and Methods for Placing and Positioning Fixation Elements in an External
Fixation System: Patent #7004943 Smith & Nephew – Jet-X
External Fixation System: Patent # 7048735 Smith & Nephew Jet-X

PATENTS APPLIED FOR

Dual Locking Plate and Associated Method: Patent # 20050049594
Dual Locking Plate and Associated Method: Patent # 20040030339
Prosthesis Cavity Cutting Guide, Cutting Tool and Method: Patent # 20030236522
Surgical Screw and Tool for its Insertion: Patent # 20030158555
Polyaxial Locking Plate: Patent # 20020156474

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COURSE CHAIRMAN

1. *The Treatment of Nonunions of Long Bones*, AAOS Summer Institute, Chicago, September 1989. (Co- chair with Phillip Spiegel, M.D.)
2. *The Treatment of Femur Fractures: Current Concepts Review and Hands on Management*, Tampa, May, 1990.
3. *The Management of Peri-Articular Fractures*, AAOS Summer Institute, Monterey, September, 1990. (Co-Chair with David Helfet, M.D.)
4. *First Comprehensive AO Foot & Ankle Course*, New Orleans, September, 1990. (Co-chair with Sigvard T. Hansen, M.D.)
5. *AO/ASIF Fracture Management for Operating Room Personnel*, St. Petersburg, October, 1992. (Co-Chair, Bret Bolhoffner, M.D.)
6. *AO Basic & Advanced Course on Fractures and Nonunions*, Orlando, March 1993. (Co-Chair with James Goulet, M.D.)
7. *Second Annual AO Foot & Ankle Course*, Breckenridge, February 1994, (Co-Chair with Bruce Sangeorzan, M.D.)
8. *AAOS Comprehensive Course on Orthopaedic Trauma*, Sante Fe, May 1995 (Co-Chair with Lawrence Bone, M.D.)
9. *AAOS Orthopaedic Learning Center Course on The Management of Post Traumatic Deformity*, Chicago, July, 1995 (Co-Chair with Thomas Bernasek, M.D.).
10. *Management of Complex Fractures: Current Concepts*, Marco Island, December, 1995 (Co-Chair with Paul Gregory, M.D.)
11. *AAOS Comprehensive Course on Orthopaedic Trauma*, Innisbrook, April, 1996 (Co-Chair with Lawrence Bone, M.D.)
12. *AO/ASIF Third Annual Foot & Ankle Course*, Colorado Springs, March, 1997 (Co-Chair with Bruce Sangeorzan, M.D.)

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13. AAOS Comprehensive Course on Orthopaedic Trauma, Nashville, March, 1997 (Co-Chair with Jim Nepola, M.D.)
14. Current Concepts in Trauma Care Squaw Valley, January, 1998 (Co-Chair with Paul Tornetta, M.D.)
15. AAOS Comprehensive Course on Orthopaedic Trauma, Tucson, May, 1998 (Co-Chair with Jim Nepola, M.D.)
16. Agility Ankle Surgical Technique Training, Chicago, November 15, 16, 1998
17. AO/ASIF Fourth Annual Foot & Ankle Course, Breckenridge, Colorado, January, 1999
18. Agility Ankle Surgical Technique Training, Chicago, August, 1999
19. Agility Ankle Surgical Technique Training, Chicago, December, 1999
20. Advances in Trauma and Musculoskeletal Fixation - Tampa, December, 1999.
21. Surgical Advances in Fracture Management, Aspen, January, 2000
22. 21st Annual Orthopaedic Trauma Seminar, Snowmass Village, February, 2000
23. AAOS Annual Meeting, Instructional Course Lectures - Orlando, March, 2000
24. Agility Ankle Surgical Technique Training, Chicago, April, 2000
25. Trauma to the Foot and Ankle A Surgical Skills Course – Rosemont, Illinois, November, 2000
26. Agility Ankle Surgical Technique Training, Chicago, December, 2000
27. AAOS Annual Meeting, Instructional Course Lectures – San Francisco March, 2001

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28. Agility Ankle Surgical Technique Training, Chicago, May, 2001
29. Agility Ankle Surgical Training, Chicago, December, 2001
30. AAOS Annual Meeting, Instructional Course Lectures – Dallas, Texas, February, 2002
31. AAOS Annual Meeting, Instructional Course Lectures - New Orleans, Louisiana, February, 2003
32. Current Solutions in Orthopaedic Trauma – Tampa, Florida, December, 2003
33. Current Solutions in Orthopaedic Trauma - Tampa, Florida, December, 2004
34. Current Solutions in Orthopaedic Trauma – Orlando, Florida, December, 2005
35. Current Solutions in Orthopaedic Trauma – Orlando, Florida November, 2006
36. Current Solutions in Orthopaedic Trauma – Orlando, Florida December, 2007

COURSE FACULTY

1. *AO/ASIF Residents Basic Course on Internal Fixation of Fractures*
Jackson, Mississippi, June, 1987.
2. *AO/ASIF Basic Course on Internal Fixation of Fractures*
Fort Lauderdale, Florida, September, 1987.
3. *AO/ASIF Basic and Advanced Course on Internal Fixation of Fractures*
Sun Valley, Idaho, March, 1988.
4. *AO/ASIF Residents Basic Course on Internal Fixation of Fractures*
Jackson, Mississippi, April, 1988.
5. *Current Trends in Orthopaedics*
Clearwater, Florida. April, 1988.
6. *External Fixation Techniques for the Treatment of Fractures*
Syracuse, New York, June, 1988.
7. *AO/ASIF Basic Course on Internal Fixation of Fractures*
Orlando, Florida, October 1988.
8. *Orthopedic Trauma: The Next Challenge. Mt. Sinai School of Medicine*
New York, March, 1989.
9. *AO/ASIF Basic and Advanced Course on Internal Fixation of Fractures*
Phoenix, Arizona. May, 1989.
10. *American Academy of Orthopaedic Surgeons Summer Institute -
Management of Nonunions and Malunions*
Chicago, Illinois. September, 1989.
11. *American Academy of Orthopaedic Surgeons Summer Institute - Fractures in
the Elderly*
Chicago, Illinois. September, 1989.
12. *AO/ASIF Basic Course on Internal Fixation of Fractures*
Jacksonville, Florida. September, 1989.

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13. *AO/ASIF Basic Course on Internal Fixation of Fractures*
Monterey, California. March, 1990.
14. *Orthopedics for the Family Practitioner*
Clearwater, Florida, May, 1990.
15. *External Fixation Workshop*
Piscataway, New Jersey, July, 1990.
16. *American Academy of Orthopaedic Surgeons Summer Institute -
Periarticular Fractures*
Monterey, California, September 1990.
17. *American Academy of Orthopaedic Surgeons Summer Institute - Long Bone
Fractures*
Monterey, California, Sept. 1990.
18. *AO/ASIF Residents Basic Course on Internal Fixation of Fractures*
Jackson, Mississippi, October 1990.
19. *AO/ASIF First Comprehensive Foot Course*
New Orleans, Louisiana, October, 1990.
20. *AO/ASIF Basic and Advanced Course on Internal Fixation of Fractures*
Davos, Switzerland, December 1990.
21. *AO/ASIF Resident's Basic Course on Internal Fixation of Fractures*
Chicago, Illinois, February 1991.
22. *AO/ASIF Basic and Advanced Course on Internal Fixation of Fractures*
Marco Island, Florida, April 1991.
23. *American Academy of Orthopaedic Surgery, Summer Institute - Periarticular
Fractures*
Washington D.C., September 1991.
24. *AO/ASIF Resident Basic Course on Internal Fixation of Fractures*
New York City, New York, October, 1991.

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25. *Sixth Annual Trauma Symposium, Bergmansheil Hospital*
Bochum, Germany, January 1992.
26. *Southeastern Orthopaedic Trauma Conference*
High Point, North Carolina, January, 1992.
27. *American Academy of Orthopaedic Surgeons Annual Meeting, Instructional*
Course Lectures, Washington D.C., February, 1992.
28. *AO/ASIF Basic and Advanced Course on the Treatment of Fractures*
Sun Valley, Idaho, April, 1992.
29. *Instructional Course, American Orthopaedic Association at the Combined*
Orthopaedic Meeting of the English Speaking World
Toronto, Canada, June, 1992.
30. *British Foot Society Annual Meeting, Royal National Orthopaedic Hospital*
London, England, November, 1992.
31. *Instructional Course on the Severely Injured Lower Limb*
Liverpool, England, November, 1992.
32. *AO/ASIF Basic Resident's Course*
Sturbridge, Massachusetts, January, 1993.
33. *American Academy of Orthopaedic Surgeons Annual Meeting, Instructional*
Course Lectures San Francisco, California, February, 1993.
34. *ASIF Basic and Advanced Course on the Treatment of Fractures*
Marco Island, Florida, May, 1993.
35. *Seventh Annual Edinburgh International Trauma Symposium*
Edinburgh, Scotland, August, 1993
36. *Richard's Orthopaedic Trauma Symposium Update 1993*
New York City, New York, December, 1993
37. *First Annual Shoulder and Elbow Symposium*
St. Petersburg, Florida, January, 1994

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38. *Second AO/ASIF Advanced Course on Foot and Ankle Trauma*
Breckenridge, Colorado, February, 1994
39. *American Academy of Orthopaedic Surgeons Annual Meeting, Instructional Course Lectures*, New Orleans, Louisiana, February, 1994
40. *AAOS Course on Periarticular Fractures*
Baltimore, Maryland, May, 1994
41. *University of South Florida Annual Trauma Symposium*
Grand Cayman, West Indies, May, 1994
42. *Annual Bonesetters Conference on Orthopaedic Trauma*
Pittsburgh, Pennsylvania, June, 1994
43. *AO/ASIF Annual Resident's Conference*
Charlotte, N.C., November, 1994
44. *Pennsylvania Orthopaedic Society Trauma Update*
Pittsburgh, Pennsylvania, November, 1994
45. *Second Annual Shoulder and Elbow Symposium*
St. Petersburg, Florida., January, 1995
46. *American Academy of Orthopaedic Surgeons Annual Meeting, Instructional Course Lectures*, Orlando, Florida, February, 1995
47. *Fourth Annual Belgian Orthopaedic Trauma Association Meeting*
Leuven, Belgium, March, 1995
48. *AAOS: Perspectives in Trauma Surgery*
Santa Fe, New Mexico, April, 1995
49. *AO/ASIF Basic and Advanced Course on Internal Fixation of Fractures*
Marco Island, Florida, May 1995
50. *Fourth Annual Swedish Fracture Management Symposium*
Stockholm, Sweden, June, 1995

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51. *Orthopaedic Learning Center: Complex Fractures & Nonunions*
Chicago, Illinois, July, 1995
52. *Management of Complex Fractures: Current Concepts*
Marco Island, Florida, December, 1995
53. *Third Annual Shoulder and Elbow Symposium*
Tampa, Florida, January, 1996
54. *American Academy of Orthopaedic Surgeons Annual Meeting, Instructional Course Lectures*, Atlanta, Georgia, February, 1996
55. *AAOS: Perspectives in Trauma Surgery*
Innisbrook, Florida, April, 1996
56. *Third Annual Ace Fracture Management Course*
Napa Valley, California, June, 1996
57. *Management of Complex Fractures: Current Concepts*
Marco Island, Florida, November, 1996
58. *Fourth Annual Ace Fracture Management Course*
Telluride, Colorado, December, 1996
59. *Fourth Annual Shoulder and Elbow Symposium*
Tampa, Florida, January, 1997
60. *American Academy of Orthopaedic Surgeons Annual Meeting, Instructional Course Lectures* San Francisco, California, March, 1997
61. *AAOS: Perspectives in Trauma Surgery*
Nashville, Tennessee, April, 1997
62. *Third AO/ASIF Advanced Course on Foot and Ankle Trauma*
Colorado Springs, Colorado, March, 1997
63. *Orthopaedic Learning Center: Complex Fractures & Nonunions*
Chicago, Illinois, June, 1997

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64. *AOFAS 13th Annual Summer Meeting*
Monterey, CA, July, 1997
65. *Trauma and Reconstructive Workshop of the Foot & Ankle*
Washington, D.C. December, 1997
66. *9th Annual Current Concepts in Trauma Care*
Squaw Valley, Colorado, January, 1998
67. *AAOS Annual Meeting, Instructional Course Lectures*
New Orleans, Louisiana, March, 1998
68. *AAOS Current Controversies in the Management of Orthopaedic Trauma*
Tucson, Arizona, May, 1998
69. *Masterclass Symposium in Orthopaedic Trauma*
Hannover, Germany, June, 1998.
70. *AOFAS 14th Annual Summer Meeting*
Boston, Massachusetts, July, 1998
71. *Fourth Annual AO/ASIF Foot and Ankle Course*
Breckenridge, Colorado, January, 1999
72. *Eighth Annual Campbell Clinic Symposium*
Cancun, Mexico, January, 1999
73. *AAOS Annual Meeting, Instructional Course Lectures*
Anaheim, California, February, 1999
74. *AOFAS - Advanced Foot & Ankle Course*
Washington, DC, May, 1999
75. *American Fracture Association 61st Annual Meeting*
Tucson, Arizona, May, 1999
76. *Orthopaedic Trauma: Perspectives for the New Millennium -*
Sante Fe, New Mexico, May, 1999

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77. *Current Concepts in Shoulder & Elbow Surgery* -
Tampa, Florida, June, 1999
78. *AOFAS – 15th Annual Summer Meeting* –
Fajardo, Puerto Rico, July, 1999
79. *1st Annual Boston Orthopaedic Trauma Symposium* –
Boston, Massachusetts, October, 1999
80. *Eastern Orthopaedic Association, Inc, Thirtieth Anniversary Meeting*
Vienna, Austria, October, 1999
81. *Society of Military Orthopaedics Annual Meeting*
Williamsburg, Virginia, October, 1999
82. *NYU Hospital for Joint Diseases, 22nd Annual Trauma Symposium*
New York, November 1999
83. *Trauma Symposium – Controversies in Orthopaedic Trauma Management*
Fort Worth, Texas, December, 1999
84. *Surgical Advances in Fracture Management – Aspen 2000*
Aspen, Colorado, January 24 – 27, 2000
85. *21st Annual Orthopaedic Trauma Seminar*
Snowmass Village, Colorado, February 3 – 5, 2000
86. *AAOS Annual Meeting, Instructional Course Lectures*
Orlando, Florida, March, 2000
87. *AOFAS – 16th Annual Summer Meeting*
Vail, Colorado, July, 2000
88. *AOFAS – Interactive Seminar on Current Management of Calcaneal and
Talus Fractures* – August, 2000
89. *Foot and Ankle Trauma: Challenges and Treatment Alternatives*
Rosemont, Illinois, September, 2000

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90. *2nd Annual Boston Orthopaedic Trauma Symposium*
Boston, Massachusetts, October 2000
91. *AAOT/AAOS Trauma Review Course*
Buenos Aires, Argentina, December, 2000
92. *AAOS Annual Meeting, Instructional Course Lectures*
San Francisco, California, March, 2001
93. *International Skeletal Trauma Conference*
Flims, Switzerland, March, 2001
94. *Orthopaedic Trauma: Current State-of-the Art*
Marco Island, Florida, May, 2001
95. *3rd Annual Chicago Trauma Symposium*
Chicago, Illinois, June, 2001
96. *21st Annual Orthopaedic Trauma Course*
New York, NY, June, 2001
97. *AOFAS – 17th Annual Summer Meeting*
San Diego, California, July, 2001
98. *VII Congress of the Argentine Association of Orthopaedic Trauma*
Buenos Aires, Argentina, August, 2001
99. *3rd Annual Boston Orthopaedic Trauma Symposium*
Boston, Massachusetts, October, 2001
100. *Review and Update for Practicing Orthopaedic Surgeons*
Tampa, FL, November, 2001
101. *Current Concepts of Shoulder and Elbow Surgery*
Tampa, FL, January, 2002
102. *EOTS Meeting*
Saipan, February, 2002

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103. *AAOS Annual Meeting, Instructional Course Lectures*
Dallas, TX, February, 2002
104. *Traumateamet Ortopedklinikerna Sahlgrenska Universitetssjukhuset I
Samarbete Goteborg, Sweden, April, 2002*
105. *Emerging Trends in Orthopaedics: Articular Injuries in the Lower
Extremities in Adults and Children, Newark, New Jersey, April, 2002*
106. *4th Boston Orthopaedic Trauma Symposium, Boston, Massachusetts,
September, 2002*
107. *3rd Annual AAOS/OTA Trauma Course, Orlando, Florida, April,
2003*
108. *POSNA 1 Day Course, Amelia Island, Florida, May, 2003*
109. *Swedish Orthopaedic Society, Sweden, September, 2003*
110. *Symposium – State of the Art – The American Way of Life in Orthopaedic
Surgery, Germany, September, 2003*
111. *5th Annual Boston Orthopaedic Trauma Symposium, Boston,
Massachusetts, September, 2003*
112. *International Trauma Symposium, Monte Carlo, Monaco, October 21
– 24, 2003*
113. *2003 International Fall Trauma Conference, Prague, Czech
Republic, October 29 – November 2, 2003*
114. *Orthopaedic Trauma Symposium: Washoe Medical Center, February
20 – 21, 2004*
115. *AAOS 71st Annual Meeting
San Francisco, CA, March 10 – 14, 2004*
116. *Video Symposium
Hannover, Germany, March 25 – 26, 2004*

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117. *Advanced Foot & Ankle Course*
Baltimore, Maryland, April 22 – 24, 2004
118. *Masters Fracture Forum*
Laguna, CA, April 29 – May 1, 2004
119. *AOA 117th Annual Meeting*
Boston, MA, June 23 – 26, 2004
120. *AOFAS 20th Annual Summer Meeting*
Seattle, WA, July 29 – 31, 2004
121. *6th Annual Boston Orthopaedic Trauma Symposium,*
Boston, Massachusetts, October, 2004
122. *The 9th Conference of the International Society for Fracture Repair,*
Bologna, Italy, November 2 – 6, 2004
123. *AAOS 72nd Annual Meeting*
Washington, DC, February 23 – 27, 2005
124. *OTA Resident Regional Fracture Update*
Rosemont, IL, April 15 – 16, 2005
125. *AAOS/OTA 5th Annual Trauma Course*
Miami, FL, April 21 – 23, 2005
126. *1st International Orthopaedic Trauma Course*
Capri, Italy, May 20 – 24, 2005
127. *Osteosynthes International, 2005*
Hamburg, Germany, September 15 – 17, 2005
128. *7th Annual Boston Orthopaedic Trauma Symposium*
Boston, MA, October 7 – 8, 2005

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129. 21st Annual Meeting, Orthopaedic Trauma Association
Ottawa, Ontario, Canada, October 20 – 22, 2005
130. New England Orthopaedic Society, 2005 Fall Meeting
Boston, MA, November 18 – 19, 2005
131. Advanced Solutions for Foot & Ankle
Scottsdale, Arizona, February 24 – 25, 2006
132. Masters Fracture Forum
Dana Point, California, April 6 – 8, 2006
133. OTA Residents Advanced Trauma Techniques Course
Atlanta, Georgia, May 5 – 6, 2006
134. 4th Annual Trauma 101 Fracture Care for the Community
Orthopedist Symposium
Cincinnati, Ohio, May 12 – 13, 2006
135. Annual Meeting of the International Kuentscher Society 2006
Berlin, September 20 – 23, 2006
136. 8th Annual Boston Orthopaedic Trauma Symposium
Boston, MA, September 29 – 30, 2006
137. 22nd Annual Meeting of the Orthopaedic Trauma Association
Phoenix, Arizona, October 4 – 7, 2006
138. German AO Foot and Ankle Course,
Dresden, October 10 – 13, 2006
139. 74th Annual Meeting of the American Academy of Orthopaedic
Surgeons
San Diego, February 14 – 18, 2007
140. Orthopaedic Trauma: Concepts to Controversies
Beaver Run, Breckenridge, Colorado, March 15 – 18, 2007
141. Trauma Fellows Course
Boston, MA, March 23 – 24, 2007

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142. Masters Fracture Forum
Dana Point, California, April 26 – 28, 2007
143. AO Advanced Foot & Ankle Course
Prague, CZ, May 22 – 25, 2007
144. International Sorrento Trauma Symposium
Sorrento, Italy, June 27 – 30, 2007
145. Nordic Symposium on Advances in Orthopaedic Trauma Surgery
Trondheim, Norway, September 19 – 21, 2007
146. Napa Valley Trauma Symposium
Napa, California, September 27 – 29, 2007
147. 23rd Annual Meeting of the Orthopaedic Trauma Association
Boston, MA, October 17 – 20, 2007
148. Israeli Orthopaedic Association
Tel-Aviv, Israel, December 19 – 21, 2007

PRESENTATIONS (AUTHOR), NATIONAL AND INTERNATIONAL MEETINGS

1. In-Vivo Vascularity of Non-Unions Using Laser Doppler Flowmetry. **American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, 1987.**
2.
 - a. Pseudarthrosis of Long Bones; Operative Treatment,
 - b. Intramedullary Nailing of the Tibia
 - c. Clinical Treatment of Forearm Fractures**AO/ASIF Residents Basic Course on Internal Fixation of Fractures, Jackson, Mississippi, June, 1987.**
3. General Indications for Operative Intervention in Fractures, **AO/ASIF Basic Course on Internal Fixation of Fractures, Fort Lauderdale, Florida, September, 1987.**
4. The Use of the Dynamic Condylar Screw in the Treatment of Distal Femoral Fractures, **Orthopaedic Trauma Association, Annual Meeting, Baltimore, Maryland, November, 1987.**
5. The Treatment of Supracondylar Femur Fractures Using the Dynamic Condylar Screw, **American Academy of Orthopaedic Surgeons Annual Meeting, Atlanta, Georgia, February, 1988.**
6. The Jack McDaniel Memorial Fellowship Lecture, **AO/ASIF Basic and Advanced Course on Internal Fixation of Fractures, Sun Valley, Idaho, March, 1988.**
7.
 - a. Lag Screw Techniques - Basic Principles,
 - b. Indications/Techniques - The Angled Blade Plate,
 - c. Dynamic Condylar Screw - Distal Femoral Fractures,
 - d. Diagnosis and Treatment of Pelvis Fractures,
 - e. External Fixation of the Pelvis,
 - f. The Treatment of Aseptic Non-Unions,
 - g. How Not To Do AO**AO/ASIF Residents Basic Course, Jackson, Mississippi, April, 1988.**

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8. External Fixation Techniques in Lower Extremity Fractures,
External Fixation Techniques for the Treatment of Fractures, Syracuse, New York, June, 1988.
9. a. The Dynamic Condylar Screw
b. The Treatment of Open Fractures
AO/ASIF Basic Course on Internal Fixation of Fractures, Orlando, Florida, October 1988.
10. The Clinical Evaluation of Nonunion Vascularity Using Laser Doppler Flowmetry. **American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, Nevada, 1989.**
11. a. Pre-operative Planning
b. The Dynamic Condylar Screw for Distal Femur Fractures
c. The Operative Treatment of Calcaneal Fractures
d. The Biomechanics of the Subtalar Joint
AO/ASIF Basic and Advanced Course on Internal Fixation of Fractures, Phoenix, Arizona. May, 1989.
12. Progressive Talo-navicular Dissociation. **American Orthopedic Association Annual Meeting, Colorado Springs, Colorado. June, 1989.**
13. The Intra-operative Use of Broden's Views in the Operative Treatment of Intra-articular Calcaneal Fractures. **American Orthopedic Foot and Ankle Society Annual Meeting, Sun Valley, Idaho, July, 1989.**
14. The Operative Treatment of Calcaneal Fractures - Pathological Anatomy, CT Classification, Operative Techniques, and Clinical Results. **American Orthopedic Foot and Ankle Society Annual Meeting, Sun Valley, Idaho, July, 1989.**
15. a. The Treatment of Infected Nonunions
b. Is There any Currency Left in Electricity?
American Academy of Orthopaedic Surgeons Summer Institute - Management of Nonunions/Malunions, Chicago, Ill. September, 1989.

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16. The Treatment of Supracondylar Femur Fractures in the Elderly. **American Academy of Orthopaedic Surgeons Summer Institute - Fractures in the Elderly, Chicago, Illinois. September, 1989.**
17.
 - a. Pre-Operative Planning
 - b. The Dynamic Condylar Screw - Indications and Techniques
 - c. IM Nailing - Technical Errors and Helpful Hints
 - d. The Treatment of Acute Bone and Joint Infections**AO/ASIF Basic Course on Internal Fixation of Fractures, Jacksonville, Florida. September, 1989.**
18. The Operative Treatment of Calcaneal Fractures - Pathological Anatomy, CT Classification, Operative Techniques, and Clinical Results. **Orthopedic Trauma Association, Annual Meeting, Philadelphia, Pa. October, 1989.**
19. The Results of Treatment of Complex Open Ankle and Hindfoot Injuries. **American Academy of Orthopedic Surgeons Annual Meeting, New Orleans, February, 1990.**
20. The Operative Treatment of Calcaneal Fractures - Pathological Anatomy, CT Classification, operative Techniques, and Clinical Results. **American Academy of Orthopedic Surgeons Annual Meeting, American Orthopedic Foot and Ankle Specialty Day Symposium on Calcaneal Fractures, New Orleans, February, 1990.**
21.
 - a. The Treatment of Distal Femur Fractures
 - b. The Operative Treatment of Calcaneal Fractures
 - c. Techniques of Ankle Arthrodesis**AO/ASIF Basic Course on Internal Fixation of Fractures, Monterey, California. March, 1990.**
22. The Results of Treatment of Complex Open Ankle and Hindfoot Injuries. **American Orthopaedic Foot and Ankle Society Annual Meeting, Banff, Canada. June 1990.**

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23. The Results of Subtalar Fusion for the Late Treatment of Calcaneal Fractures. **American Orthopaedic Foot and Ankle Society Annual Meeting, Banff, Canada. June 1990.**
24.
 - a. The Treatment of Supracondylar Femur Fractures
 - b. Point - Counterpoint: The Dynamic Condylar Screw
American Academy of Orthopaedic Surgeons Summer Institute - Periarticular Fractures, Monterey, California, Sept. 1990.
25.
 - a. External Fixator Removal from the Tibia
 - b. The Treatment of Open Humeral Fractures
American Academy of Orthopaedic Surgeons Summer Institute - Long Bone Fractures, Monterey, California, Sept. 1990.
26.
 - a. The Treatment of Open Fractures
 - b. The Treatment of Subtrochanteric Femur Fractures
 - c. How Not To Do AO
 - d. Non-Reamed Nail for Tibial Fractures
 - e. ORIF of the Distal Humerus
 - f. IM Nailing of the Tibia
 - g. The Treatment of Calcaneal Fractures
 - h. The Treatment of Supracondylar Fractures of the Femur
AO/ASIF Residents Basic Course on Internal Fixation of Fractures Jackson, Mississippi, October 1990.
27. The Operative Treatment of Calcaneal Fractures - Pathological Anatomy, CT Classification, Operative Techniques, and Clinical Results. **AO/ASIF First Comprehensive Foot Course. New Orleans, Louisiana, October, 1990.**
28. The Results of Subtalar Fusion for the Late Treatment of Calcaneal Fractures. **Orthopaedic Trauma Association Annual Meeting, Toronto, Canada, November 1990.**

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29.
 - a. The Treatment of Calcaneal Fractures
 - b. Fractures of the Talus
 - c. Preoperative Planning
 - d. The Treatment of Open Tibia Fractures**AO/ASIF Basic and Advanced Course on Internal Fixation of Fractures, Davos, Switzerland, December 1990.**

30.
 - a. Operative Management of Distal Femur Fractures
 - b. The Treatment of the Polytraumatized Patient
 - c. Management of Tibial Fractures after Ex Fix Removal**AO/ASIF Resident's Basic Course on Internal Fixation of Fractures, Chicago, Illinois, February 1991.**

31. Double Plating of the Distal Femur. American Academy of Orthopaedic Surgeons Annual Meeting, Anaheim, California, March, 1991.

32.
 - a. Ender Nailing of the Humerus
 - b. Ender Nailing of the Tibia
 - c. Results and Complications of Ender Nailing of the Humerus**American Academy of Orthopaedic Surgeons Annual Meeting, Instructional Course Lectures. Anaheim, California, March, 1991.**

33.
 - a. Operative Treatment of Calcaneal Fractures
 - b. The Operative Treatment of Distal Femur Fractures
 - c. The Indirect Reduction of Fractures**AO/ASIF Basic and Advanced Course on Internal Fixation of Fractures, Marco Island, Florida, April 1991.**

34. The CT Scan Classification of Calcaneal Fractures. German - Swiss - Austrian Orthopedic Trauma Society. Vienna, Austria, May 1991.

35.
 - a. The Management of Intertrochanteric Femur Fractures
 - b. Pitfalls in the Use of the Dynamic Condylar Screw**American Academy of Orthopaedic Surgery, Summer Institute - Periarticular Fractures, Washington D.C., September 1991.**

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36. a. The Treatment of Fractures of the Distal Femur
b. What Next after External Fixation?
c. Septic Nonunions
AO/ASIF Resident Basic Course on Internal Fixation of Fractures, New York City, New York, October, 1991.
37. Radiation Exposure to the Orthopaedic Surgeon, Orthopaedic Trauma Association Annual Meeting, Seattle, Washington, October 1991.
38. a. The Massively Injured Foot
b. The Operative Treatment of Calcaneal Fractures
Sixth Annual Trauma Symposium, Bergmansheil Hospital, Bochum, Germany, January 1992.
39. Radiation Exposure to the Orthopaedic Surgeon: American Academy of Orthopaedic Surgeons Annual Meeting, Washington, D.C., February, 1992.
40. a. Ender Nailing of the Humerus
b. Changing Indications for Ender Nailing
c. The Use of Ender Nails for Peri-Prosthetic Fractures
American Academy of Orthopaedic Surgeons Annual Meeting, Instructional Course Lectures, Washington D.C., February, 1992.
41. a. Segmental Defects of the Femur
b. The Mangled Extremity
American Academy of Orthopaedic Surgeons Annual Meeting, Instructional Course Lectures, Washington D.C., February, 1992.
42. a. The Treatment of Supracondylar Femur Fractures
b. The Treatment of Intra-Articular Calcaneal Fractures
AO/ASIF Basic and Advanced Course on the Treatment of Fractures and Nonunions. Sun Valley, Idaho, April, 1992.

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43. The Case for Operative Intervention in the Treatment of Intra-Articular Calcaneal Fractures, **Instructional Course, American Orthopaedic Association at the Combined Orthopaedic Meeting of the English Speaking World, Toronto, Canada, June, 1992.**
44. The Operative Treatment of Intra-Articular Calcaneal Fractures - Results in 120 Cases using a CT Scan Classification, **Orthopaedic Trauma Association Annual Meeting, Minneapolis, Minnesota, October, 1992.**
45.
 - a. Ankle Fusions using the Hansen Technique
 - b. The Operative Treatment of Talus Fractures
 - c. The Operative Treatment of Calcaneal Fractures
 - d. Compartment Syndromes about the Foot**British Foot Society Annual Meeting, Royal National Orthopaedic Hospital, London, England, November, 1992.**
46.
 - a. Classification of Open Fractures
 - b. The Treatment of Open Tibial Fractures with Ext. Fixation**Instructional Course on the Severely Injured Lower Limb, Liverpool, England, November, 1992.**
47.
 - a. Biological Fixation of Ankle
 - b. ORIF of Distal Humeral Fractures**AO/ASIF Basic Resident's Course: Sturbridge, Mass, January, 1993.**
48.
 - a. Segmental Defects of the Femur
 - b. The Mangled Extremity**Instructional Course Lecture # 123, American Academy of Orthopaedic Surgeons Annual Meeting: San Francisco, California, February 1993.**
49. The Oblique Osteotomy for the Treatment of Tibial Shaft Malunions **American Academy of Orthopaedic Surgeons *Annual Meeting: San Francisco, California, February 1993.**

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50. a. The Operative Treatment of Calcaneal Fractures
b. Results of Operative Treatment of Calcaneal Fractures using a CT Scan Classification
Orthopaedic Trauma Association Specialty Day American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, February, 1993.

51. a. Pre-Op Planning in Fracture Surgery
b. Indirect Reduction of Fractures
c. Salvage of Failed Ankle Fusions
d. ORIF of Calcaneal Fractures
AO/ASIF Basic and Advanced Course, Marco Island, Fl, May, 1993.

52. a. Trauma Care in the U.S.A.
b. Biologic Fixation of Ankle Trauma
c. Indirect Reduction of Tibial Plateau Fractures
d. Debate: Non-Reamed Nails in Open Tibial Shaft Fractures
e. The Salvage of Open Grade IIIB Ankle and Talus Fractures
The Seventh Annual Edinburgh International Trauma Symposium, Edinburgh, Scotland, August, 1993

53. a. Complex Fractures of the Distal Humerus
b. Complex fractures and Dislocations about the Elbow
The First Annual Comprehensive Shoulder and Elbow Symposium, St. Petersburg, Florida, January, 1994

54. a. ORIF Calcaneal Fractures
b. Complex Salvage for Failed Ankle Fusions
c. Biological Approach to Ankle Trauma
AO/ASIF Second Advanced Course on the Operative Treatment of Foot and Ankle Trauma, Breckenridge, Colorado, February, 1994

55. a. Segmental Defects of the Femur
b. The Mangled Extremity
Instructional Course Lecture #121 American Academy of Orthopaedic Surgeons Annual Meeting: New Orleans, La. February 1994.

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56. The Long Term Results of the Treatment of Displaced Intra-articular Calcaneal Fractures. **Instructional Course Lecture #234 American Academy of Orthopaedic Surgeons Annual Meeting: New Orleans, La. February 1994.**
57. The Results of Operative Treatment of Tibial Plateau and Shaft Fractures: Is there still a role for Screws and Plates? **American Academy of Orthopaedic Surgeons Annual Meeting: New Orleans, La. February 1994.**
58. a. Intra-articular Fractures of the Distal Humerus
b. Intra-articular Fractures of the Calcaneus
American Academy of Orthopaedic Surgeons Course on Peri-articular Fractures. Baltimore, Maryland, May,1994
59. a. Complex Fractures of the Distal Humerus
b. Complex fractures and Dislocations about the Elbow
The Second Annual Comprehensive Shoulder and Elbow Symposium, St. Petersburg, Florida, January, 1995
60. a. Segmental Defects of the Femur
b. The Mangled Extremity
Instructional Course Lecture #121 American Academy of Orthopaedic Surgeons Annual Meeting: Orlando, Florida. February 1995.
61. a. Fractures of the Scapula
b. The Treatment of Femoral Malunions
Orthopaedic Learning Center Course on the Treatment of Complex Fractures and Nonunions, Chicago, Illinois. July, 1995
62. a. Subtalar Fusion for Posttraumatic Arthritis Secondary to Calcaneal Fractures
b. Results of a Staged Protocol for Wound Management in Complex Pilon Fractures
American Academy of Orthopaedic Surgeons Annual Meeting: New Orleans, Louisiana, March, 1998

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63.
 - a. Calcaneal Fractures: Operative Treatment
 - b. The Mangled Extremity: Current Limb Salvage Treatment
 - c. Pilon Fractures**Eighth Annual Campbell Clinic Symposium, Cancun, Mexico, January, 1999**

64.
 - a. Ankle Fractures: Indirect Reduction Techniques
 - b. Pilon Fractures: Open Treatment of Pilon Fractures
 - c. Talar Neck Fractures: Operative Treatment and Results
 - d. Calcaneal Malunions**AO/ASIF Foot and Ankle Course, Breckenridge, Colorado, January, 1999**

65.
 - a. Controversies in the Management of Calcaneal Fractures
 - b. Managing Post-Traumatic Deformity of the Hindfoot**American Academy of Orthopaedic Surgeons Annual Meeting: Anaheim, California, February, 1999**

66.
 - a. Calcaneal Fractures
 - b. Pilon Fractures
 - b. Total Ankle Arthroplasty**American Fracture Association Annual Meeting, Tucson, AZ, May, 1999**

67.
 - a. Open Reduction/Internal Fixation
 - b. Use of Resorbable Fixation in Foot & Ankle Surgery
 - c. CT Classification and Open Reduction/Internal Fixation**Eastern Orthopaedic Association, Thirtieth Anniversary Meeting: Vienna, Austria, October, 1999.**

68.
 - a. Subtrochanteric Femur Fractures Fixed Plate with Indirect Reduction
 - b. Surgical Techniques Subtrochanteric Femur Fracture Plating
 - c. Controversy – Hindfoot Calcaneus Fracture – ORIF
 - d. Technique, Calcaneus Fractures ORIF
 - e. Total Ankle after Pilon Fractures**21st Annual Orthopaedic Trauma Seminar, Snowmass Village, Colorado, February, 2000**

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69. a. Controversies in the Management of Calcaneal Fractures
b. Managing Post-Traumatic Deformity of the Hindfoot
American Academy of Orthopaedic Surgeons Annual Meeting: Orlando, Florida, March, 2000.
70. a. Symposium: New Frontiers in Complex Hindfoot
b. Trauma Symposium: Electronic Presentations
**American Orthopaedic Foot & Ankle Society
16th Annual Summer Meeting, Vail Colorado, July, 2000**
71. a. Salvage of Non-Union, Malunion, and Post Traumatic Arthritis TKA
b. Midfoot Trauma
Faculty, Foot and Ankle Trauma: Challenges and Treatment Alternatives, Rosemont, Illinois, September, 2000
72. a. Proximal Femur: Roll of Fixed Angle Device
b. Ankle Fusion versus Total Ankle Arthroplasty
c. Salvage for Failed Calcaneus Fractures
2nd Annual Boston Orthopaedic Trauma Symposium, Boston, Massachusetts, October, 2000
73. a. Ankle Fractures: Indirect Reduction Techniques
b. Pilon Fractures: Open Treatment of Pilon Fractures
c. Calcaneus Fractures: Operative Treatment & Results
d. Treatment of Ankle Arthritis: The Total Ankle for Post-Traumatic Arthritis
e. Calcaneal Malunions: Type III Malunions/Osteotomy
The American Orthopaedic Foot & Ankle Society Surgical Skills Course, Rosemont, Illinois, November, 2000
74. a. Techniques for Arthrodesis in the Foot and Ankle
b. Digital Imaging and Computer Presentation
American Academy of Orthopaedic Surgeons Annual Meeting: San Francisco, California, March, 2001

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75. a. Pediatric – Clinical Cases – Foot and Ankle
b. Femur – New Nailing Systems
c. Femur – Demo and Lab TRIGEN
d. Femur and Foot and Ankle – Calcaneal Fractures
International Skeletal Trauma Conference
Flims, Switzerland, March, 2001
76. a. INDIRECT REDUCTION: Percutaneous Plating: Tibia
b. TIBIA: Definitive ORIF Pilon (after spanning frame)
c. FOOT & ANKLE: ORIF – Indications & Results
Orthopaedic Trauma: Current State-of-the-Art, Marco
Island, Florida, May, 2001
77. a. Femoral Shaft Fractures
b. Hands on Lab – Intramedullary Nailing
3rd Annual Chicago Trauma Symposium, Chicago, Illinois,
June, 2001
78. a. TIBIAL SHAFT FRACTURES: Reduction Tricks,
Blocking Screws
b. TIBIAL SHAFT FRACTURES: Reamed vs. Unreamed
Nails
21st Annual Orthopaedic Trauma Course - Current
Techniques in Upper & Lower Extremity Trauma, New
York, NY, June, 2001
79. a. Symposium: Electronic Presentations
b. Symposium: The Aging Foot
American Orthopaedic Foot and Ankle Society
17th Annual Summer Meeting, San Diego, California, July,
2001
80. a. Calcaneal Fractures
b. Calcaneal Malunions
c. Midfoot Fractures & Dislocations
d. Third Generation Intramedullary Nailing:
The Trigen System
VII Congress of the Argentine Association of Orthopaedic
Trauma, Buenos Aires, Argentina, August, 2001

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81. a. Extraarticular Distal Tibia Fractures
b. Pilon Fractures: Definitive Management
**Boston Orthopaedic Trauma Symposium
Boston, Massachusetts, October, 2002**
82. a. Calcaneal Fractures
b. Minimally Invasive Fixation & Reduction Techniques
**Orthopaedic Trauma Association Annual Meeting,
San Diego, California, October, 2001**
83. a. Calcaneal Malunions
b. Calcaneal Plate: Workshop
**National Trauma Symposium, Miami Beach, FL,
November, 2001**
84. a. Tibial Shaft Fractures
b. Humeral Shaft Fractures
**Review and Update for Practicing Orthopaedic Surgeons,
Tampa, FL, November, 2001**
85. Humeral Shaft Non-Unions
**Current Concepts of Shoulder and Elbow Surgery
Tampa, FL, January, 2002**
86. Treatment of Severe Peripheral Fractures of the Foot and Ankle
EOTS Meeting, Saipan, February, 2002
87. Minimally Invasive Traumatology: New Techniques and
Technology
**American Academy of Orthopaedic Surgeons Annual
Meeting, Dallas, TX, February, 2002**
88. a. Biological Fixations on Fractures
b. Intraarticular Fractures in the Lower Extremity
c. Thoughts and aims in Developing of a new Nail System
**Traumateamet Ortopedklinikerna Sahlgrenska
Universitetssjukhuset I Samarbete, Goteborg, Sweden, April,
2002**

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89.
 - a. Calcaneal Fractures
 - b. Hindfoot Reconstruction
 - c. Agility Total Ankle
 - d. Distal Femur Fractures – Plating
 - e. Percutaneous Plating

Emerging Trends in Orthopaedics: Articular Injuries in the Lower Extremities in Adults and Children, Newark, New Jersey, April, 2002
90.
 - a. Humeral Nonunions
 - b. Calcaneal Fractures

**Boston Orthopaedic Trauma Symposium
Boston, Massachusetts, September, 2002**
91.
 - a. Minimally Invasive Fixation & Reduction Techniques
 - b. Trochanteric Nail Insertion for Femoral Shaft FX Revisited

Orthopaedic Trauma Association Annual Meeting, Toronto, Canada, October, 2002
92.

Humerus Fracture Symposium
Eastern Orthopedic Society Meeting, Amelia Island, Florida, October, 2002
93.
 - a. Biologic Fixation of Fractures
 - b. Percutaneous Plating
 - c. Calcaneal Fractures: When to Operate

International Fall Trauma Course, Seville, Spain, October, 2002
94.

Minimally Invasive Traumatology: New Techniques and Technology
American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, Louisiana, February, 2003
95.
 - a. Pilon Fractures: Definitive Management
 - b. Foot Compartment Syndrome: Evaluation and Management
 - c. Calcaneal Fractures: ORIF

3rd Annual AAOS/OTA Trauma Course, Orlando, Florida, April, 2003

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96. When a Kid is like an Adult: State of the Art Techniques for Treatment of the Skeletally Mature Teen
POSNA 1 Day Course, Amelia Island, Florida, May, 2003
97. Pilon Fractures
Swedish Orthopaedic Society Meeting, Stockholm, Sweden, September 3 – 5, 2003
98.
 - a. State of the Art in IM Nailing
 - b. Ankle Fusions vs. Total Ankle Replacement
 - c. Calcaneal Malunions – State of the Art**Symposium – The American Way of Life in Orthopaedic Surgery, Bochum, Germany, September 1, 2003**
99.
 - a. State of the Art in IM Nailing of Tibial and Femoral Fractures
 - b. Humeral Nonunions
 - c. Indication and Technique of Total Ankle Replacement**Symposium – State of the Art, Stuttgart, Germany, September 2, 2003**
100.
 - a. State of the Art in Pilon Fractures and IM Nailing
 - b. Total Ankle Replacement – State of the Art
 - c. Talus Fractures**Symposium – Around the Ankle Joint Trauma Solutions the American Way, Hamburg, Germany, September 5, 2003**
101.
 - a. Femoral Shaft – Retrograde vs. Antegrade vs. Trochanteric, what to do
 - b. Pilon Fractures – Current Management
 - c. Calcaneal Fractures – Percutaneous Management**5th Annual Boston Orthopaedic Trauma Symposium, Boston, Massachusetts, September 12 – 13, 2003**
102. Perilocking Plates
International Trauma Symposium, Monte Carlo, Monaco, October 21 – 24, 2003

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103. a. The Science behind 3rd Generation Intramedullary Nails
b. IM Nailing: Tips & Tricks – Moderator
c. 3rd Generation Nailing System – Demo & Lab
d. Calcaneal Fractures
e. Severe Forefoot Injuries
2003 International Fall Trauma Conference, Prague, Czech Republic, October 29 – November 2, 2003

104. a. Minimally Invasive Fixation & Reduction Techniques
b. Talar Neck Fractures & Fracture Dislocations (Lab)
c. Pilon Fractures (Lab)
19th Annual Meeting, Orthopaedic Trauma Association, Salt Lake City, Utah, October 8 – 11, 2003

105. a. Plafond Techniques
b. ORIF of Calcaneus – State of the Art
c. Trochanteric Antegrade Nailing
Orthopaedic Trauma Symposium: Washoe Medical Center, Lake Tahoe, Nevada, February 20 – 21, 2004

106. a. Clavicle Fractures
b. SYMPOSIUM: Masters Techniques Difficult Reconstructions – Ankle
71st AAOS Annual Meeting, San Francisco, CA, March 10 – 14, 2004

107. a. Fractures of the Lower Extremities
b. Operative Treatment of a Non-Union of the Proximal Tibia
Video Symposium, Hannover, Germany, March 25 – 26, 2004

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108.
 - a. Foot and Ankle Grand Rounds: Complications of Treatment of Foot and Ankle Problems: Why it Happened/How I Managed It
 - b. Management of the Calcaneal Malunion
 - c. Trauma and Post Trauma Reconstruction of the Foot and Ankle: Case Based Presentations
 - d. Correction of the Cavovarus Foot
 - e. Salvage of the Failed TAA – revision vs. fusion**Advanced Foot and Ankle Course, Baltimore, Maryland, April 22 – 24, 2004**

109. Calcaneal Fractures
Masters Fracture Forum, Laguna, CA April 29 – May 2, 2004

110. Symposium - Undaunted Courage: Innovative Financial Paradigms for Orthopaedic Surgery Practices
AOA 117th Annual Meeting, Boston, MA, June 23 – 26, 2004

111. Master Techniques in Foot & Ankle Trauma: Calcaneal Fractures
AOFAS 20th Annual Summer Meeting, Seattle, WA July 28, 2004

112.
 - a. Replacement versus Arthrodesis for Post Traumatic Ankle Arthritis **(chosen as a Highlight Paper)**
 - b. Minimally Invasive Fixation – Indirect Reduction Technique
 - c. Panel Discussion: Failure of Fixation – Why
 - d. Lab – Distal Femoral Nailing Techniques with Interlocking Blocking Screws**20th Annual Meeting, Orthopaedic Trauma Association Hollywood, Florida, October 7 – 10, 2004**

113.
 - a. Femoral Shaft – Antegrade
 - b. Post Traumatic Ankle Arthritis: Options
 - c. Clavicle Fractures: Operative versus**6th Annual Boston Orthopaedic Trauma Symposium, Boston Massachusetts, October 22 – 23, 2004**

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114. Third Generation IM Nailing
The 9th Meeting of the International Society for Fracture Repair, Bologna, Italy, November 2 – 6, 2004

115.
 - a. ICL Course: Total Ankle Arthroplasty: Current State of the Art
 - b. Replacement versus Arthrodesis for Post-Traumatic Ankle Arthritis
 - c. Trochanteric vs Piriformis Entry Portal for the Treatment Of Femoral Shaft Fractures
 - d. Symposium: Controversies in Lower Extremity Trauma
AAOS 72nd Annual Meeting, Washington, DC, February 23 – 27, 2005

116.
 - a. The Role of Antegrade Piriformis Nail in Femoral Shaft Fractures
 - b. Minimizing Morbidity of Calcaneus Fractures – Indications and Techniques for Fixation
OTA Resident Regional Fracture Update, Rosemont, IL April 15 – 15, 2005

117.
 - a. Pilon Fractures
 - b. Calcaneus Fractures
 - c. Talus Fractures**AAOS/OTA 5th Annual Trauma Course, Miami, FL, April 21 – 23, 2005**

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118. a. Calcaneal Fractures
b. Compartment Syndrome
**1st International Orthopaedic Trauma Course, Capri, Italy
May 20 – 24, 2005**
119. a. Useful Indications for Intramedullary Fixations of the
Lower Extremity
**Osteosynthesis International 2005, Hamburg, Germany,
September 15 – 17, 2005**
120. a. Talus Fractures: Techniques and Expected Outcomes
b. Humeral Shaft – Plate
c. Distal Humeral Fracture: ORIF
**7th Annual Boston Orthopaedic Trauma Symposium
Boston, MA, October 7 – 8, 2005**
121. a. Minimally Invasive Fixation – Indirect Reduction
Techniques
**21st Annual Meeting, Orthopaedic Trauma Association
Ottawa, Ontario, Canada, October 20 – 22, 2005**
122. a. Calcaneal Fractures – State of the Art
b. Pilon Fractures – State of the Art
c. Total Ankle Replacement – Myth vs Reality
**New England Orthopaedic Society, 2005 Fall Meeting
Boston, MA, November 18 – 19, 2005**
123. a. Breakout Session – Foot-Talus, Calcaneous,
Mid and Fore Foot
**Masters Fracture Forum, Dana Point, California,
April 6 – 8, 2006**
124. a. Plate Fixation of the Humerus: Approaches
and Techniques
**Orthopaedic Trauma Association Residents Advanced
Trauma Techniques Course, Atlanta, Georgia
May 5 – 6, 2006**

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125. a. State of the Art Nailing in Distal Femoral Fractures
**Annual Meeting of the International Kuentscher Society 2006
Berlin, September 20 – 23, 2006**

126. a. Salvage of the Arthritic Ankle – TAA vs Fusion
b. Proximal Humerus Nailing
 - Indications for nailing vs. plating
 - Techniques in Nailing
 - New Implants – locking nailc. LAB - Proximal Humerus Nailing
**8th Annual Boston Orthopaedic Trauma Symposium,
Boston, MA September 29 – 30, 2006**

127. a. Minimal Invasive Fixation – Failure of Fixation, why?
2006 Residents Comprehensive Fracture Course
b. Mini Symposia – Fracture Dislocations of the Talus
**22nd Annual Meeting of the Orthopaedic Trauma
Association, Phoenix, Arizona, October 4 – 7, 2006**

128. a. Late Reconstruction after Ankle and Pilon Fractures
b. Standard of ORIF in Calcaneal Fractures
c. Calcaneal Osteotomies
d. Treatment of Talar Neck and Body Fractures
e. Complex Foot Trauma
**German AO Foot and Ankle Course, Dresden,
October 10 – 13, 2006**

129. a. Indirect Reduction Minimally Invasive Trauma Surgery and
Submuscular Plating Techniques
b. Case Discussion: Proximal Tibial Fractures
c. Mini Symposia – Calcaneal Fractures
d. Case Discussion: Pilon and Ankle Fracture
**Orthopaedic Trauma: Concepts to Controversies
Beaver Run, Breckenridge, Colorado
March 15 – 18, 2007**

130. a. Case Presentation – Foot and Ankle:
Pilon, Calcaneus, Talus
Trauma Fellows Course, Boston, MA March 23 – 24, 2007

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131. a. Case Presentations
Masters Fracture Forum
Dana Point, California, April 26 – 28, 2007

132. a. Early Corrections Pilon/Ankle
b. Calcaneus: Standard of ORIF
c. Calcaneus: Early and Late Corrections
AO Advanced Foot & Ankle Course
Prague, CZ, May 22 – 25, 2007

133. a. Moderator: Injuries about the Knee
b. Tibial & Ankle Fractures
c. Tibial Nailing
d. Pilon Fractures
International Sorrento Trauma Symposium
Sorrento, Italy, June 27 – 30, 2007

134. a. Humeral Shaft Fractures:
 - Why use a plate and how to do it
 - Humeral nonunions, how they should be treatedb. Calcaneal Fractures: State of the Art
c. Lisfranc Injuries, Treatment & Results
d. Pilon Fractures:
 - Why I use other options in Pilon Fracturese. Metaphyseal Tibial Fractures:
 - Nailing is still a good option, tricks and pitfallsf. Subtrochanteric Fractures:
 - Revision surgery in trochanteric and subtrochanteric fractures**Nordic Symposium on Advances in Orthopaedic Trauma Surgery, Trondheim, Norway, September 19 – 21, 2007**

135. a. Femoral Nailing: Choosing the Starting Point (Piriformis, Trochanteric, Retrograde) & Technical Tips
b. Femur: Case Discussion
c. Symposium: Calcaneal Fractures – when and how to fix them

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136. a. Calcaneal Fractures
 - b. Pilon Fractures
- Israeli Orthopaedic Association, Key Note Speaker,
Tel-Aviv, Israel, December 19 – 21, 2007**

PRESENTATIONS (AUTHOR), REGIONAL AND LOCAL MEETINGS

1. Laser Doppler Flowmetry and Bone Blood Flow. Annual Scientific Meeting Hospital for Joint Diseases, Orthopaedic Institute, New York, New York, October, 1985.
2.
 - a. External Fixation of the Tibia
 - b. Current Concepts in Treatment of Femoral Fractures
 - c. The Treatment of Distal Fractures of the Radius
 - d. Pelvic Trauma; Diagnosis and Treatment Options**Visiting Professor, University of Kentucky, Lexington, Kentucky, July, 1987.**
3. Diagnosis and Treatment of Intra-Articular Fractures of the Calcaneus. Visiting Professor, Erlanger Medical Center, Chattanooga, Tennessee, October, 1987.
4. Prospective Comparison of Enders' Nails and External Fixation in the Management of Open Tibial Fractures. HJD/OI Alumni Scientific Meeting, New York City, New York, October, 1987.
5. Intra-Articular Fractures of the Calcaneus, - an Operative Approach. Current Trends in Orthopaedics, Clearwater, Florida. April, 1988.
6. A Prospective Randomized Comparison of Enders Nails to External Fixation in Open Tibial Fractures. Florida Orthopaedic Society, Key Largo, Florida, May, 1988.
7.
 - a. The Intraoperative Treatment of Calcaneal Fractures
 - b. Treatment of Supracondylar Femur Fractures
 - c. The Operative Treatment of Acetabular Fractures
 - d. Complications of Pelvic and Acetabular Fractures**Orthopedic Trauma: The Next Challenge. Mt Sinai School of Medicine, New York, March, 1989.**
8. The Operative Treatment of Calcaneal Fractures. Visiting Professor, Booth Memorial Hospital, New York, March, 1989.

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9. **The Operative Treatment of Calcaneal Fractures. Visiting Professor, Hospital for Joint Diseases, Orthopedic Institute, New York City, New York, March, 1989.**
10. **The Operative Treatment of Calcaneal Fractures - Pathological Anatomy, CT Classification, Operative Techniques, and Clinical Results. Visiting Professor, Department of Orthopedics, University of Colorado at Denver. Denver, Colorado. October, 1989.**
11. **The Operative Treatment of Calcaneal Fractures - Pathological - Anatomy, CT Classification, Operative Techniques, and Clinical Results. Visiting Professor, Department of Orthopedics, State University of New York at Stony Brook, North Shore Hospital, Manhasset, Long Island, November, 1989.**
12. **The Operative Treatment of Intra-Articular Calcaneal Fractures. Visiting Professor, University of Miami Department of Orthopedic Surgery, Miami, Florida. January, 1990.**
13. **The Operative Treatment of calcaneal Fractures - Pathological Anatomy, CT Classification, Operative Techniques, and Clinical Results. Florida Orthopedic Society, Captiva Island. April, 1990.**
14. **The Operative Treatment of Calcaneal Fractures - Pathological Anatomy, CT Classification, Operative Techniques, and Clinical Results. Visiting Professor, Department of Orthopedics, Emory University, Atlanta, May, 1990.**
15. **The Operative Treatment of Distal Femur Fractures. The Operative Treatment of Femur Fractures, Tampa, Florida, May, 1990**
16. **Iizarov Techniques - Basic Science and Application. Orthopedics for the Family Practitioner, Clearwater, Florida, May, 1990**

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17. a. The Open Tibia - Diagnosis and Treatment
b. Orthopedic Management of the Polytraumatized Patient
Visiting Professor, St. Luke's Hospital Medical Center, New York City, New York, June, 1990
18. a. The Treatment of the Polytraumatized Patient
b. The Management of the Open Tibia
c. External Fixation of the Pelvis
External Fixation Workshop, Piscataway, New Jersey, July, 1990
19. The Operative Treatment of Calcaneal Fractures - Pathological Anatomy, CT Classification, Operative Techniques, and Clinical Results. **Visiting Professor, Division of Orthopedics, Health Science Center, Houston, Texas, July, 1990**
20. a. CT Classification of Calcaneal Fractures
b. Late Treatment of Calcaneal Fractures
Georgia State Medical Society - Orthopedic Section - Annual Meeting, Atlanta, Georgia, January 1991
21. The Operative Treatment of Calcaneal Fractures - Pathological Anatomy, CT Classification, Operative Techniques, and Clinical Results. **New Jersey State Medical Society Annual Orthopedic Symposium, Somerset, New Jersey, October, 1991**
22. a. Complications in ORIF of Supracondylar Femur Fractures
b. Decision Making in Calcaneal Fractures.
Southeastern Orthopaedic Trauma Conference, High Point, N.C. January, 1992
23. The Operative Treatment of Intra-Articular Calcaneal Fractures.
Visiting Professor, Department of Orthopaedics, Rhode Island Hospital, Brown University School of Medicine, Providence, Rhode Island, April, 1992
24. The Operative Treatment of Intra-Articular Calcaneal Fractures.
Visiting Professor, Department of Orthopaedics, Brigham and Women's Hospital, Harvard School of Medicine,

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- Boston, Massachusetts, May, 1992**
25. a. The Operative Treatment of Intra-Articular Calcaneal Fractures
b. The Operative Treatment of Distal Femur Fractures
Visiting Professor, Department of Orthopaedics, Mount Carmel Combined Orthopaedic Residency, Columbus, Ohio, May, 1992
 26. Radiation Exposure to the Orthopaedic Surgeon. Florida Orthopaedic Society Annual Meeting, Key Biscayne, Florida, May, 1992
 27. a. The Mangled Extremity and Limb Salvage
b. The Treatment of Supracondylar Femur Fractures
Visiting Professor, Department of Orthopaedics, New York University School of Medicine, New York City, New York, September, 1992
 28. The Operative Treatment of Calcaneal Fractures. Visiting Professor, Department of Orthopaedics, Southeastern Medical School, Dallas, Texas, December 1992
 29. a. Pre-op Planning
b. Indirect Reduction of Fractures
c. ORIF of Calcaneal Fractures
Visiting Professor, Colorado Orthopedic Society, Annual Meeting, Denver, Colorado, June, 1993
 30. The Operative Management of Intra-Articular Calcaneal Fractures. Visiting Professor, Department of Orthopaedics, Columbia University, New York City, New York, June, 1993.
 31. The Operative Management of Intra-Articular Calcaneal Fractures. Visiting Professor, Department of Orthopaedics, Orlando Regional Medical Center, Orlando, Fla., November, 1993
 32. a. Intra-articular Fractures of the Calcaneus
b. Retrograde Nailing of the Femur
Annual Bonsetter's Course on Trauma, Pittsburgh,

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Pennsylvania, June,1994

33. The Operative Management of Intra-Articular Calcaneal Fractures. **Visiting Professor, Department of Orthopaedics, Hospital for Joint Disease, Orthopaedic Institute, New York City, N.Y., February, 1995**
34. The Operative Management of Intra-Articular Calcaneal Fractures. **Visiting Professor, Department of Orthopaedics, University of Pennsylvania, April, 1995**
35.
 - a. Indirect Reduction of Fractures
 - b. Intra-Articular Fractures of the Calcaneus**Visiting Professor, Department of Orthopaedics, University of California at Los Angeles, Los Angeles, California, May, 1995**
36. Felix R. Rosenhain Lecture
NYU-Hospital for Joint Diseases, Department of Orthopaedic Surgery, New York, 1995.
37.
 - a. Calcaneal Fractures
 - b. The Mangled Extremity
 - c. Pilon Fractures**Visiting Professor, Inova Fairfax Hospital, Falls Church, Virginia, March, 1999**
38.
 - a. Pilon Fractures
 - b. Calcaneal Fractures**Visiting Professor, Sponsored by The Department of Orthopaedic Surgery, Washington University School of Medicine for the St. Louis Orthopaedic Society, St. Louis, Missouri, April, 1999**
39.
 - a. Pilon Fractures
 - b. Calcaneal Fractures**Visiting Professor, The Medical College of Wisconsin and the Milwaukee Orthopaedic Society, Milwaukee, Wisconsin, April, 1999**

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40. Calcaneal Fractures
**Visiting Professor, Duke University Medical Center,
Durham, North Carolina, May, 1999**
41. a. Calcaneal Fractures
b. Total Ankle Replacement
**Visiting Professor, Naval Medical Center, Portsmouth,
Virginia, June, 1999**
42. a. Calcaneal Fractures
b. Midfoot Fractures
c. Hindfoot Reconstruction
**Visiting Professor, New Jersey Medical School, Newark,
New Jersey, September, 1999.**
43. Calcaneal Fractures
**Visiting Professor, UnfallKrankenhaus Berlin, September,
1999**
44. Calcaneal Fractures
**Visiting Professor, Society of Military Orthopaedic Surgeons,
Williamsburg, Virginia, October, 1999**
45. a. Calcaneal Fractures
b. Total Ankle Replacement
**Visiting Professor, Sinai Hospital, New York, November,
1999**
46. Calcaneal Fractures
**Visiting Professor, Baylor College of Medicine, Houston,
Texas, January 5, 2000**
47. a. Retrograde IM Nailing – Indications and Technique
b. Percutaneous Plating of the Tibia
c. Humeral Fractures – ORIF
d. Use of Bioabsorbables in Fracture Management
**University of South Florida College of Medicine
Aspen, Colorado, January, 2000**

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48. Treatment of Calcaneal Fractures: Current Thinking
**Visiting Professor, Mount Carmel Health System,
Columbus, Ohio, March, 2000**
49. Treatment of Calcaneal Fractures
Visiting Professor, University of Virginia, August, 2000
50. Calcaneal Malunion
Visiting Professor, University of Louisville, August, 2000
51. a. Calcaneal Fractures
b. Pilon Fractures
**Guest Lecturer, 14th Annual Callahan Lecture, Loyola
University, Chicago, September, 2000**
52. a. Calcaneal Fractures
b. Pilon Fractures
**Visiting Professor, Columbia University, New York, April,
2002**
53. a. Pilon Fractures
b. Calcaneal Fractures
**Visiting Professor, University of Texas Southwestern
Medical Center, Dallas, May, 2002**
54. Pilon Fractures: Treatment & Results
**Visiting Professor, Harvard Medical School, Boston, March,
2003**
55. Calcaneal Fractures
**Visiting Professor, Columbia University, New York, May,
2003**
56. a. Calcaneal Fractures
b. Pilon Fractures
**Visiting Professor, SUNY Downstate, Brooklyn, New York,
May, 2003**

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57.
 - a. Managing the Mangled Extremity
 - b. Current Concepts and Controversies in Pilon, Calcaneal, Talus, & Mid-Foot Fractures

Visiting Professor, Sr. Residents Program, Atlanta, Georgia, September 19, 2003
58.
 - a. Pilon Fractures
 - b. Calcaneal Fractures

IOWA Orthopaedic Alumni Association, University of Iowa, Iowa City, Iowa, September 16 – 18, 2003
59. Modern Treatment of Pilon Fractures
Visiting Professor, University of Kansas School of Medicine Kansas City, Kansas, September 26, 2003
60.
 - a. ORIF of the Calcaneus
 - b. Modern Treatment of Pilon Fractures

Raney Visiting Professor, University of North Carolina at Chapel Hill, Chapel Hill, NC, April 15 – 17, 2004
61.
 - a. The Operative Treatment of Calcaneus Fractures and Malunions
 - b. Advances in IM Nailing of the Lower Extremity
 - c. Modern Management of Pilon Fractures and the Complications

2004 Orthopaedic Fall Visiting Professorship, Via Christi Regional Medical Center, Wichita, Kansas, October, 2004
62.
 - a. Calcaneus Fracture
 - b. Third Generation Nailing – The Trigen Experience
 - c. Modern Treatment of Pilon Fractures

Visiting Professor, Hartford Hospital, March, 2005
63. Calcaneus Fractures
Visiting Professor, Yale New Haven Hospital, March, 2005
64. Calcaneus Fractures
Visiting Professor, University of Cincinnati, April, 2005

65. Pilon Fractures
Visiting Professor, University of Pennsylvania, June 16, 2005
66. Pilon Fractures – State of the Art
Calcaneal Fractures – State of the Art
**Visiting Professor, University of Western Ontario Residents’
Day Symposium – JC Kennedy Memorial Lecturer
London, Ontario, Canada, September 22 – 24, 2005**
67. Updates in New Trends in Hip Fracture
**Keynote Speaker, University of Cincinnati
4th Annual Trauma 101 Fracture Care for the Community
Orthopedist Symposium, Cincinnati, Ohio, May 12 – 13, 2006**
68. Pilon Fractures
Calcaneal Fractures
**Visiting Professor, Walter Reed Army Medical Center,
April 11 – 12, 2007**
69. Pilon Fractures
Visiting Professor, University of Pittsburgh, May 2, 2007
70. Calcaneal Fractures
Visiting Professor, University of Toledo, May 3, 2007
71. Treatment of Proximal Femur Fractures
Calcaneal Fractures
**Visiting Professor, University of Nebraska
June 22 – 23, 2007**

PRESENTATIONS (CO-AUTHOR)

1. Laser Doppler Flowmetry (LDF) Is an Effective Technique for Evaluating Bone Blood Flow. Swiontkowski, M., **Sanders, R.**, Schlehr, F., Federation of American Societies for Experimental Biology, Washington, D.C., March 31, 1987
2. Direct In-Vivo Measurement of Meniscal Blood Flow. Limbird, T., Swiontkowski, M., **Sanders, R.**, Schlehr, F. American Academy of Sports Medicine Annual Meeting, San Francisco, California, 1987
3. Is External Fixation The Only Way to Manage Open Tibial Fractures?, Holbrook, J., Swiontkowski, M., **Sanders, R.** American Academy of Orthopaedic Surgeons 55th Annual Meeting, Atlanta, Georgia, February, 1988
4. The Treatment of Subtrochanteric Femur Fractures Using The Dynamic Condylar Screw. Routt, C., **Sanders, R.**, Regazzoni, P. American Academy of Orthopaedic Surgeons 55th Annual Meeting, Atlanta, Georgia, February, 1988
5. The Efficacy of Double Gloving: Cloth Versus Latex. Fortin, P., **Sanders, R.**, Helfet, D., DiPasquale, T. Orthopaedic Trauma Association Annual Meeting, Dallas, Texas, October, 1988
6. Comparison of Enders Vs. Ex Fix in Open Tibia Fractures: A Randomized Prospective Trial. Holbrook, J., Swiontkowski, M., **Sanders, R.** Orthopaedic Trauma Association Annual Meeting, Dallas, Texas, October, 1988
7. Limb Salvage: Results of A Multicenter Study. Howey, T., Helfet, D., **Sanders, R.**, DiPasquale, T. Orthopaedic Trauma Association Annual Meeting, Dallas Texas, October, 1988
8. Surgical Glove Perforations: The Efficacy of Cloth Versus Latex Gloves. Fortin, P, **Sanders, R.**, Helfet, D., DiPasquale, T. AAOS 50th Annual Meeting, Las Vegas, Nevada, 1989

9. Surgical Glove Perforations: The Efficacy of Cloth Versus Latex Gloves. Fortin, P, **Sanders, R.**, Helfet, D., DiPasquale, T. AAOS Specialty Day: Orthopaedic Trauma Association, 1989
10. Acetabular Fractures in the Elderly. Borelli, J., Helfet, D., **Sanders, R.**, DiPasquale, T., Orthopedic Trauma Association, Annual Meeting, Philadelphia, October, 1989
11. The Double Locked Non Reamed Tibial Nail - Preliminary Results. DiPasquale, T., **Sanders, R.**, Helfet, D. Orthopedic Trauma Association, Annual Meeting, Philadelphia, October, 1989
12. The Double Locked Non Reamed Tibial Nail - Preliminary Results. DiPasquale, T., **Sanders, R.**, Helfet, D. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, February, 1990
13. Results of Treatment of Tibial Plateau Fractures using Indirect Reduction. Koval, K., **Sanders, R.**, Helfet, D., DiPasquale, T. Orthopedic Trauma Association Annual Meeting, Toronto, Canada, 1991
14. Retrograde Femoral Nailing. Koval, K., **Sanders, R.**, DiPasquale, T., Helfet, D. Orthopaedic Trauma Association Annual Meeting, Seattle, Washington, October, 1991
15. The Treatment of Open Tibial Fractures using an Unreamed Nail – Is External Fixation Obsolete? Anglen, J., **Sanders, R.**, Unger, D., Herscovici, D., Helfet, D., DiPasquale, T. Orthopaedic Trauma Association Annual Meeting, Minneapolis, Minnesota, October, 1992
16. Minimal Versus Maximal Fixation of Ulna Fractures: A Biomechanical Analysis of Indirect Reduction. Dennis, J., **Sanders, R.**, Latta, L., Milne, T. Orthopaedic Trauma Association Annual Meeting, Minneapolis, Minnesota, October, 1992
17. The Oblique Osteotomy for Tibial Malunion. Anglen, J., **Sanders,**

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- R., Mark, J. American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, 1993.
18. The Biomechanical Evaluation of Five Fixation Techniques for Vertical Shear Fractures of the Medial Malleolus. Toolan, B., Koval, K., Kummer, F., **Sanders, R.** American Orthopaedic Foot and Ankle Society Annual Meeting, Asheville, North Carolina, July, 1993
 19. Calcaneal Malunions: CT Scan Classification and Results of a Treatment Protocol. Stevens, H., and **Sanders, R.** Orthopaedic Trauma Association Annual Meeting, New Orleans, Louisiana. September, 1993
 20. The Detection of Intra-articular Screws during Acetabular Surgery using a simple Auscultation Technique. DiPasquale, T., Herscovici, D., and **Sanders, R.** American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, La., February, 1994
 21. The Detection of Intra-articular Screws during Acetabular Surgery using a simple Auscultation Technique. DiPasquale, T., Herscovici, D., and **Sanders, R.** Orthopaedic Trauma Association Specialty Day Presentation at the American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, La., February, 1994
 22. The Use of the Judet Approach for Operative Treatment of Displaced Intra-Articular Glenoid Fractures. DiPasquale, T., Herscovici, D., Gregory, P., **Sanders, R.** Orthopaedic Trauma Association Annual Meeting, Los Angeles, California. September, 1994
 23. Cost Containment of Orthopaedic Trauma Patients using Treatment Protocols. Herscovici, D., Scaduto, J., **Sanders, R.**, Gregory, P., DiPasquale, T. Orthopaedic Trauma Association Annual Meeting, Tampa, Florida. September, 1995
 24. Radial Head Fractures Associated with Elbow Dislocations – Result with Immediate Stabilization and Early Motion (ISEM). Frankle, M., **Sanders, R.** Orthopaedic Trauma Association

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Annual Meeting, Tampa, Florida. September, 1995

25. A comparison of Intramedullary Fixation Techniques for Humeral Shaft Fractures in the Multiply Injured Patient. Wagner, M., Gregory, P., DiPasquale, T., **Sanders, R.**, Herscovici, D. Orthopaedic Trauma Association Annual Meeting, Boston, Massachusetts. September, 1996
26. Results of a Staged Protocol for Wound Management in Complex Pilon Fractures. Sirkin, M., Gregory, P., Herscovici, D., DiPasquale, D., **Sanders, R.** Orthopaedic Trauma Annual Meeting, Louisville, Kentucky. October, 1997
27. Subtalar Fusion for Post Traumatic Arthritis Secondary to Calcaneal Fractures. Flemister, S., Infante, A., Sirkin, M., **Sanders, R.** Orthopaedic Trauma Association Annual Meeting, Louisville, Kentucky. October, 1997
28. A Comparison of 95-Degree Fixed Angle Plate Devices to Cephalomedullary Nails in the Treatment of High Subtrochanteric Femoral Fractures. Pistel, W., Gregory, P., DiPasquale, T., Herscovici, D., **Sanders, R.** Orthopaedic Trauma Association Annual Meeting, Louisville, Kentucky. October, 1997
29. Retrograde vs. Antegrade Nailing of Femoral Shaft Fractures. Ricci, W., Bellabarba, C., O'Boyle, M., Lewis, Robert., Herscovici, D., DiPasquale, T., **Sanders, R.** Orthopaedic Trauma Association Annual Meeting, Vancouver, British Columbia, Canada. October, 1998
30. The Natural History and Treatment of Open Calcaneal Fractures. Heier, Keith A., Infante, Anthony F., Walling, Arthur, K., **Sanders, Roy W.** Orthopaedic Trauma Association Meeting, Charlotte, N.C. 1999
31. Open Reduction Internal Fixation and Immediate Subtalar Fusion for Comminuted Intra-Articular Calcaneal Fractures: A Review of 33 Cases. Infante, Anthony F., Heier, Keith A., Lewis, Bo., **Sanders, Roy W.** Orthopaedic Trauma Association Meeting, Charlotte, N.C. 1999

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32. Open Reduction and Anterior-Inferior Plating of Middle-Third Fractures and Non-Unions of the Clavicle. Collinge, Cory., Devinney, Scott., Herscovici, Dolfi., DiPasquale, Thomas., **Sanders, Roy W.** Orthopaedic Trauma Association Meeting, Charlotte, N.C. 1999
33. Iatrogenic Nerve Injury during Acetabular Fracture Surgery: A Comparison of Monitored and Unmonitored Patients. Haidukewych, George., Scaduto, Julia M., DiPasquale, Thomas., Herscovici, Dolfi., **Sanders, Roy W.** Orthopaedic Trauma Association Meeting, Charlotte, N.C. 1999
34. Outcomes of Acute Femoral Neck Fractures in Young Patients. Collinge, Cory., Devinney, Scott., DiPasquale, Thomas., Herscovici, Dolfi., **Sanders, Roy.** Orthopaedic trauma Association Meeting, Charlotte, N.C. 1999
35. Radial Nerve Palsy Associated with Humeral Fractures. Yach, Jeff, **Sanders, Roy,** DiPasquale, Thomas, Herscovici, Dolfi. Orthopaedic Trauma Association Meeting, San Antonio, Texas, 2000
36. The Insensate Foot: An Indication for Amputation. Jones, Alan L., McCarthy, Melissa L., Webb, Lawrence X., Sims, Stephen, **Sanders, Roy W.** Orthopaedic Trauma Association Meeting, San Antonio, Texas, 2000
37. Anatomic Compression Arthrodesis Technique for Post-Traumatic Arthrosis of the Ankle: Results of Treatment. **Sanders, Roy,** Steinlauf, Steven, Heier, Keith, Walling, Arthur. Orthopaedic Trauma Association Meeting, San Antonio, Texas, 2000
38. Operative Treatment of 635 Displaced Infra-Articular Calcaneal Fractures. Infante, Anthony, Heier, Keith, DiPasquale, Thomas, Herscovici, Dolfi, **Sanders, Roy.** Orthopaedic Trauma Association Meeting, San Antonio, Texas, 2000

39. Isolated Displaced Fractures of the Talar Neck and Body – Results of Treatment with Open Reduction and Stable Fixation. Lindvall, Eric M., Haidukewych, George, DiPasquale, Thomas, Herscovici, Dolfi, **Sanders, Roy.** Orthopaedic Trauma Association, San Antonio, Texas, 2000
40. Nonoperative Treatment of Isolated Medial Malleolus Fractures. Herscovici, Dolfi, Scaduto, Julia, **Sanders, Roy,** Infante, Anthony, DiPasquale, Tom. American Academy of Orthopaedic Surgeons Annual Meeting, Dallas, TX, February, 2002
41. Characteristics that Effect Outcomes in Patients with Limb Threatening Lower Extremity Injuries. Mackenzie, Ellen, Bosse, Michael J., Kellam, James F., Burgess, Andrew, Webb, Larry, Swiontkowski, Marc, **Sanders, Roy,** Jones, Alan, McAndrew, Mark, Patterson, Brendan, McCarthy, Melissa, Trivison, Thomas. American Academy of Orthopaedic Surgeons Annual Meeting, Dallas, TX, February, 2002
42. Reconstruction or Amputation of Lower Limb Threatening Injuries: Two-year Clinical and Functional Outcomes in Level I Trauma Centers. Bosse, Michael J., Mackenzie, Ellen J., Kellam, James F., Burgess, Andrew, Webb, Larry, Swiontkowski, Marc, **Sanders, Roy,** Jones, Alan, McAndrew, Mark, Patterson, Brendan, McCarthy, Melissa, Trivison, Thomas. American Academy of Orthopaedic Surgeons Annual Meeting, Dallas, TX, February, 2002

SCIENTIFIC EXHIBITS AND AV PRESENTATIONS

A. VIDEOS

1. *Intertrochanteric Valgus Osteotomy for Femoral Neck Nonunion/Malunion.* AAOS Summer Institute, Chicago, Illinois, 1989.
2. *Operative Treatment of Interarticular Calcaneal Fractures.* Video Journal of Orthopedics, Vol 4 (2), 1990.
3. *Open Reduction and Internal Fixation of a Highly comminuted Talus Fracture, using a Medial Malleolar Osteotomy.* AO/ASIF Educational Videos, Davos, Switzerland, 1990. Presented at: AO/ASIF Comprehensive Foot Course, New Orleans, Louisiana, October 1990.
4. *Open Reduction and Internal Fixation of a Calcaneal Fracture.* AO/ASIF Educational Videos, Davos, Switzerland, 1990. Presented at: AO/ASIF Comprehensive Foot Course, New Orleans, Louisiana, October, 1990.
5. *Open Reduction and Internal Fixation of Lisfranc's Fracture Dislocation.* AO/ASIF Educational Videos, Davos, Switzerland, 1990. Presented at: AO/ASIF Comprehensive Foot Course, New Orleans, Louisiana, October, 1990.
6. *Open Reduction and Internal Fixation of a Comminuted 1st Metatarsophalangeal Joint Fracture Dislocation.* AO/ASIF Educational Videos, Davos, Switzerland, 1990. Presented at: AO/ASIF Comprehensive Foot Course, New Orleans, Louisiana, October, 1990.
7. *Subtalar Distraction Bone Block Arthrodesis.* AO/ASIF Educational Videos, Davos, Switzerland, 1990. Presented at: AO/ASIF Comprehensive Foot Course, New Orleans, Louisiana, October, 1990.
8. *Corrective Osteotomy of the Second Metatarsal.* AO/ASIF Educational Videos, Davos, Switzerland, 1990. Presented at: AO/ASIF Comprehensive Foot Course, New Orleans, Louisiana, October, 1990.

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9. Arthrodesis of the First Metatarso-phalangeal Joint. AO/ASIF Educational Videos, Davos, Switzerland, 1990. Presented at: AO/ASIF Comprehensive Foot Course, New Orleans, Louisiana, October, 1990.
10. Truncated Wedge Arthrodesis for Pes Cav-*us. AO/ASIF Educational Videos, Davos, Switzerland, 1990. Presented at: AO/ASIF Comprehensive Foot Course, New Orleans, Louisiana, October, 1990.
11. Open Reduction and Internal Fixation of A Subtrochanteric Femur Fracture using the Dynamic Condylar Screw. AAOS, Summer Institute, Washington, D.C., September, 1991.
12. Retrograde Nailing of Femoral Shaft Fractures. AO/ASIF Educational Videos, Davos, Switzerland. AAOS Annual Meeting, Washington, D.C., 1992.
13. The Oblique Osteotomy for Tibial Malunions. Video Journal of Orthopaedics. 1994.

B. AUDIO-TAPES

1. The Operative Treatment of Intra-Articular Calcaneal Fractures, Audiosynopsis Tapes, June, 1992.