

CURRICULUM VITAE
Hansen A. Yuan, M.D.

Born:

Yunnan, China

October 29, 1943

Education:

Methodist English High School,
Rangoon, Burma

Alma College, Alma, Michigan, B.S.

June 1965

University of Michigan Medical School
Ann Arbor, Michigan, M.D.

June 1969

Graduate Hospital Clinical Experience:

Intern, Surgery, State University of
New York, Upstate Medical Center,
Syracuse, New York

1969-1970

Assistant Resident, General Surgery,
State University of New York, Upstate
Medical center, Syracuse, New York

1970-1971

Resident, Orthopaedic Surgery, State
University of New York, Upstate Medical
Center, Syracuse, New York

1971-1974

Post Graduate Training:

Fellowship-Dr. Leon Wiltse
Low Back and Cervical Pain

Long Beach Memorial Hospital, University Hospital, Irvine

Long Beach, California

10/73-12/73

Visiting Professor:

Veterans General Hospital-Taipei
Taipei, Taiwan Republic of China

10/91

University of Rochester
University of Nebraska

New Jersey Medical School

Tri-Service General Hospital

Hansen A. Yuan, M.D.

(2)

Taipei, Taiwan

9/92

University of Tennessee
Dept. of Neurosurgery
Memphis, Tennessee

3/26/93

University of Virginia Health Sciences
Center, Charlottesville, Virginia

4/21/93

Visiting Professor - continued:

Chang Zheng Hospital Shanghai, R.O.C.	4/27-30/1993
Siriraj Hospital, Mahidol University Bangkok, Thailand	10/19/93
Longwood Area Orthopaedic Grand Rounds Boston, Massachusetts	9/14/94
Baptist Hospital Boston, Massachusetts	3/1/95
University of Florida Tampa, Florida	6/30/95
Gallway Visiting Professor Queen's University Kingston, Ontario	11/30-12/1/95
"Adult Spondylolisthesis - Reduction and Fixation", "Laparoscopic and Thoracoscopic Minimally Invasive Spinal Fusion", and "Advances in Minimally Invasive Disc Surgery".	
Distinguished Professor Lecture for Society of Military Orthopaedic Surgeons	11/22/96
Long Island Spine Club Commack, New York	6/27/98
Rush-Presbyterian-St. Luke's Medical Center Chicago, Illinois	10/7-8/98
Chinese University of Hong Kong Shatin, Hong Kong	12/12-19/98
Grand Rounds, Orthopaedic and Neurosurgical - Oklahoma University Oklahoma City, Oklahoma	
"History of Spinal Fusion, Clinical Applications of Spinal Instrumentation for Difficult Indications, The Treatment of Spinal Tumors".	
	5/21/99

Hansen A. Yuan, M.D.

(4)

Grand Rounds

Monte Fiore Hospital

Bronx, New York

"Future of Spine/Long Term Results"

11/22/99

Visiting Professor - continued:

Grand Rounds

Wayne State University
Detroit, Michigan

"Degenerative Disc Disease", and "Current Status of
Osteoporotic Fracture Treatments Using Vertebroplasty vs.
Kyphoplasty" 12/15/99

Grand Rounds

Yale University
New Haven, Connecticut

"Degenerative Disc Disease - Current and Future" 12/17/99

Grand Rounds

Barrow Neurological Institute
Phoenix, Arizona

"IDET" May 19, 1999

H. Lohman Memorial Orthopaedic Conference -

"Surgical Approaches for Chronic Low Back Pain".

Livingston, New Jersey October 7, 2000

Neurosurgery Conference, Eleanor N. Dana Conference Center,
Medical College of Ohio - "Scientific and Historical Basis
for Lumbar Spine Surgery", and "Direction for Future Spine
Applications".

Toledo, Ohio January 20, 2001

Altman Hospital Orthopedic Conference - "Surgical Management
of Degenerative Disc Disease: Aggressive, Conservative Care
to Artificial Disc Replacement. Canton, Ohio March 8, 2001

Dinner Presentation to Orthopaedic Surgeons in the Hershey,
Pennsylvania area -

"Spine Care for Degenerative Disc Disease; Past, Present and
Future"

Harrisburg, Pennsylvania May 8, 2001

Journal Club - "Discogenic Low Back Pain: Surgical

Treatment Options". Louisville, Kentucky March 1, 2002

Dinner Presentation to Orthopaedic Residents, Alleghany

Hansen A. Yuan, M.D.

(6)

General Hospital - "Degenerative Disc Disease - The Role of
Nucleus Replacement vs. Disc Replacement".
Pittsburgh, Pennsylvania

March 11, 2002

Visiting Professor - Continued:

Grand Rounds & Dinner Presentation
University of California, San Diego
"Indications & Rationale for Anterior and Posterior
Thoracolumbar Fracture Treatment", and Spine Osteotomy for
Kyphus Correction". December 11-12, 2002

Spine Distinguished Lecture
The Hospital for Special Surgery
New York, New York
"Kyphoplasty for Osteoporotic Compression Fractures and
Selective Vertebral Primary or Metastatic Tumors", and
"Management of Degenerative Disc Disease: Current
and Future". February 20-21, 2003

Neurological and Spinal Surgery - Lincoln, Nebraska
"Disc and Nucleus Replacement for Degenerative Disc
Disease and Annular Repair". October 7-8, 2005

Neuroscience Conference-Texas Back Institute
"Nucleus Replacement". October 6, 2006

VietNam Orthopedic Association & Spine Society of HCMC,
VietNam (SSHV) Meeting - "Motion Preservation for
Degenerative Spinal Conditions", and Disc and Nucleus
Replacement".
Ho Chi Minh City, Viet Nam November 16-22, 2006

Presidential Guest:

Orthopaedic Department,
University of Hong Kong, Queen Mary
Hospital, Children's Hospital,
Sandy Bay, Hong Kong 11/1/80-11/15/80

Taipei Orthopaedic Association
Taipei, Taiwan 10/21 - 10/23/93

1995 Qingdao International Congress on Orthopaedics
Qingdao, China 10/8-10/10/95

2nd Military Medical University
China 2/97

The Association of Spinal Surgery, Republic of China
Annual Meeting
Taipei, Taiwan 4/26/97

Academic Positions:

Assistant Professor, Orthopaedic Surgery
State University of New York,
Upstate Medical Center,
Syracuse, New York 1974-1979

Associate Professor, Orthopaedic Surgery
State University of New York,
Upstate Medical Center,
Syracuse, New York 1980-1983

Professor, Orthopaedic Surgery
State University of New York,
Upstate Medical Center,
Syracuse, New York 1984-1987

Professor and Chairman, Orthopaedic Surgery
SUNY Health Science Center at Syracuse,
(Upstate Medical Center)
Syracuse, New York 1987-1989

Hansen A. Yuan, M.D.

(9)

Professor of Orthopaedic and Neurological
Surgery
SUNY Health Science Center at Syracuse,
Syracuse, New York

1990-Feb. 2007

Academic Positions (continued):

Professor Emeritus, Department of Orthopaedic
and Neurological Surgery
SUNY Health Science Center at Syracuse
Syracuse, New York March 2007-

Hospital Appointments:

State University of New York,
Upstate Medical Center,
Syracuse, New York 1974-2012
Crouse-Irving Memorial Hospital,
Syracuse, New York 1974-2008
Veterans Administration Hospital,
Syracuse, New York 1974-2008
St. Joseph's Hospital Health Center
Syracuse, New York 1996-Jan.31, 2000
St. Elizabeth Medical Center
Utica, NY 2007-2008

Licensure:

New York (118107) 1973
California (C 35444) 1973
Michigan (31654) 1973

Certification:

American Board of Orthopaedic Surgery 1975

Military Service:

Active Reserves - Army 6/28/70-1978
United States Army 1970-1976

Membership in Societies:

California Medical Association	1974-
Onondaga County Medical Society	1974-
Medical Society of State of New York	1974-
American Medical Association	1974-2000
Orthopaedic Research Society	1975
Active Fellow, American Academy of Orthopedic Surgeons	1977-2006
Emeritus Fellow, American Academy of Orthopaedic Surgeons	2007-
Fellow, American College of Surgeons	1978-2008
The Marquis Who's Who Publications Board	1978-2000
Association for Academic Surgery	1978-1988
Eastern Orthopaedic Association	1978-1989
New York Chapter, American College of Surgeons, Inc.	1978-
Fellow, International College of Surgeons, Inc.	1982-88
New York State Society of Orthopaedic Surgeons	1982-
Bioelectrical Repair and Growth Society	1982
Chemonucleolysis Advisory Faculty	1984
The International Society for the Study of the Lumbar Spine	1984-
North American Spine Society	1985-

Hansen A. Yuan, M.D.

(12)

American College of Spinal Surgeons	1985
International Back Pain Society	1986
American Spinal Injury Association	1987

Membership in Societies (continued):

Orthopaedic Trauma Association	1987
Upstate New York Federation of Physicians and Dentists	1987
American Orthopaedic Association	1988-2008
Scoliosis Research Society	1989
International Society for Minimal Intervention in Spinal Surgery	1993
Societe Internationale De Chirurgie Orthopedique Et De Traumatology (SICOT)	1994-2000
Chinese Speaking Orthopaedic Society	1994
Chinese Speaking Orthopaedic Society	2004-2006
International Intradiscal Therapy Society, Inc.	1998
Spine Arthroplasty Society, Charter Member	Aug.20, 2001-

Honorary Degrees, Awards:

Phi Beta Kappa

Phi Sigma Pi

Beta Beta Beta-Biological Honorary

American Medical Association,
Physician's Recognition Award May 1981-1984

Certificate of Merit for Scientific
Exhibit entitled: "Computed Tomography
in Degenerative Spinal Stenosis: The
Value of Multiplanar Reconstruction"
The American Roentgen Ray Society March 1981

Young Surgeon Representative for Upstate
New York Chapter, American College of
Surgeons 1983

Orthopaedic Research and Education
Foundation - The Order of Merit -
Cum Laude 1986 & 1990

North American Spine Society Travelling
Fellowship Award -\$15,000 1991

North American Spine Society Award for
Research - Research assigned to Dr.E. Thomas Edwards
Dr. Kao Han Chung - \$35,000 1991

North American Spine Society AcroMed Manuscript Award
Bayley, J.C.; Yoo, J.U.; Zou, D.; Kruger, D.M.; Edwards,
W.T.; Yuan, H.A.: "The Role of Distraction in Improving
the Space Available for the Cord and Nerve Roots in
Cervical Spondylosis" 1991

AcroMed Research Award - \$25,000 1991

Volvo Award for Low Back Research (Basic Science Award),
International Society for the Study of the Lumbar Spine-
AcroMed Corporation - "Vertebral burst fractures: An

experimental Disc in Flexion-Compression and in Pure
Compression".

Fredrickson, B.E.; Edwards, W.T.; Rauschning, W.;
Bayley, J.C.; Yuan, H.A.: "Vertebral Burst Fractures:
An Experimental Morphologic and Radiographic
Analysis"

1992

Honorary Degrees, Awards:

North American Spine Society AcroMed Manuscript Award -
P. Vazquez-Seone; J. Yoo; D. Zou, L.A. Fay; B.E. Fredrickson;
J.C. Handal; H.A. Yuan; W.T. Edwards: "Interference Screw
Fixation of Cervical Grafts: A Combined In Vitro
Biomechanical and In Vivo Animal Study". Boston, Mass. 1992

Chinese Institute for Space Science and Medical Engineering -
Granted Lifetime Honorary Professor. 1996

North American Spine Society Outstanding Poster Award -
Patrick Connolly, M.D.; Nat Ordway, M.S.; Kenneth Mann,
Ph.D.; Todd Sacks, B.S.; V. Vamjanij, M.D.; and Eric Wall,
M.D.: "Video Assisted Thoracic Discectomy and Anterior
Release: A Biomechanical Analysis of Open vs. Endoscopic
Technique". VanCouver, B.S., Canada 1996

International Intradiscal Therapy Society Meeting - 7th
Annual - Lyman Smith, M.D. Award for Best Presentation -
Nathaniel R. Ordway, M.S.; V. Vamvanij, M.D.; J. Zhao, M.D.;
O.B. Bao, M.D. H A. Yuan, M.D.; K.A. Mann, Ph.D. "The Effect
of a Hydrogel Nucleus on the Failure Properties of the
Intervertebral Disc". Naples, Florida 1997

North American Spine Society's 1998 Leon Wiltse Award for
leadership in the field of spine surgery. Annual North
American Spine Meeting, San Francisco, CA. 1998

North American Spine Society David Selby Award -
Seattle, Washington September 29, 2006

Spine Arthroplasty Society Leon L. Wiltse Award for Best
Overall Paper - "An Investigational Study of Nucleus Pulposus
Replacement Using an Incurable Polyurethane - An In Vivo Non
Human Primate Model
SAS7, Berlin, Germany May 2007

Spine Arthroplasty Society, The International Society for the
Advancement of Spine Surgery, 2008 Best Clinical Paper Award
"Two Year Interim European Clinical Results of Nucleus
Replacement Using an In Situ Cured, Balloon Contained,
Injectable Polyurethane Device" - J. Sherman, P. Donkersloot,

Hansen A. Yuan, M.D.

(17)

F. Martens, M. Ahrens, H. Halm, A. Tsantrizos, H. Yuan, J.C.
LeHuec

May 2008

Committees, Boards:

Silverman Public Health Hospital, Executive Committee	1976-1977
Medical Staff Executive Committee	1977
Governing Board	1981
Emergency Health and Medical Services Committee of the Onondaga County Medical Society	July 1983
A O Spine Study Group	1985
International Spinal Fixation Advisory Committee	1985
Editorial Staff of "Complications in Orthopaedics"	1986-1989
Joint Labor/Management Committee of United University Professions	1986
Ad Hoc Committee for Review of Undergraduate & Graduate Medical Education Curricula at SUNY Health Science Center at Syracuse	1986
United University Professions Academic Delegate	1987
Advisory Editor - Journal of Spine	1988-1990
Editorial Board - Journal of Spine Disorders	1989
Ad Hoc Committee to develop a classification of thoracic and lumbar spine for Scoliosis Research Society	1989
Executive Committee - North American Spine Association	1989
Chairman, Committee for Spinal Research - North American Spine Association	1990

Hansen A. Yuan, M.D.

(19)

Program Chairman - North American Spine
Association Annual Meeting

1990

Committees, Boards - Continued:

Resolutions Committee - American Academy of Orthopaedic Surgeons	1990-1996
Board of Associate Editors - Journal of Spine	1991-2006
Board of Editors - Journal of Spinal Research	1991
American Academy of Orthopaedic Surgeons Regional Membership Committee	1991-1993
CPT Committee of the American Academy of Orthopaedic Surgeons	1991-1996
North American Spine Society, Chairman, Committee on CPT	1991-1995
North American Spine Society, Chairman, Committee on Committees	1992-1993
North American Spine Society, Committee on Long Range Planning	1992-1994
North American Spine Society, Second Vice-President	1993-1994
Consultant - Bioelectron, Inc.	1993
Advisory Panel - Journal of Spine	1993-2006
Ad Hoc Committee, Agency on Health Related Affairs	1993
Socio-Economic Governmental Agency - Chair, Scientific Committee on Retrospective Study of Pedicle Screw Fixation	1993
Negotiator for American Academy of Orthopaedic Surgeons and American Association of Neurological Surgeons Liaison Task Force re: Fellowship, Residency Training for Spine Care	1993

Chairman, Scientific Committee For "A Historical
Cohort Study of Pedicle Screw Fixation in Thoracic,
Lumbar, and Sacral Fusions" 1994

North American Spine Society, Committee on
Committees 1994

Committees, Boards - Continued:

North American Spine Society,
Vice-President 1994

North American Spine Society, Director,
Council on Administration 1994-1995

Editorial Board, Spine Letter 1994

Department of Health and Human Services Orthopedic
and Rehabilitation Devices Panel 1994-

North American Spine Society, Chair,
Traveling Fellowship Committee 1994

North American Spine Society, Representative to
COMSS 1994-1996

North American Spine Society, President 1995

International Society for the Study of the Lumbar
Spine - Executive Committee 1995-

Board of Directors - Nuvasive Sept.1995-

Z-KAT, Inc. Advisory Board 1998

Editorial Board - Spine Universe July 2000

Advisory Board - Medical Economics Magazine July 2000

Editorial Board - The Spine Journal (TSJ) July 2000-2001

Editorial Advisory Board - Advances in Osteoporotic
Fracture Management Journal 2001-

Associate Editorial Board - The Spine Journal (TSJ)	2002-2006
Kyphon Scientific Advisory Board	March 2002-
Board of Directors, Spine Arthroplasty Society	May 2002-
Editorial Advisory Board - Orthopedics Today	2003-2004
The Council of Healthcare Advisors -	July 2003-
Archus Orthopedics Scientific Advisory Board	2003-

Committees, Boards - Continued:

Editorial Staff - Textbook - Emerging Spine Surgery
Technologies - Published 2006

Editorial Staff - The Chinese Speaking Orthopaedic Society
Journal of Orthopaedic Surgery and Research 2006

Editor-in-Chief, The Spine Arthroplasty Society Online
Journal 2006-

Applied Spine Clinical Events Committee, Principal
Investigator, Stabilmax NX IDE Clinical Study 2006

President, The Spine Arthroplasty Society 2007

North American Spine Society Recognition Awards
Committee 2007

Scientific Presentations...

- 29th Annual Conference for Engineering in Medicine and Biology-SESSION-"Bioelectricity and Orthopaedics:",
"Treatment of Osteomyelitis with Electrically
Injected Silver Ions in Rabbits". Boston, Mass 1976
- Annual Meeting of Orthopaedic Research Society -
"Electrically Generated Silver Ions as a Bacteriocidal
Agent in Acute and Chronic Enterobacter Cloacae
Osteomyelitis in Rabbits". Las Vegas, Nevada. 1977
- Annual Meeting of Orthopaedic Research Society -
"Silver-PMAA Antibacterial Bone Cement".
Dallas, Texas. 1978
- Annual Meeting of Orthopaedic Research Society -
"Hematogenous Vertebral Osteomyelitis in the
Adult". Dallas Texas. 1978
- Eastern Orthopaedic Association 9th Annual Meeting -
"Computerized Tomography in the Evaluation of
Thoraco-Lumbar Spinal Injuries". Acapulco, Mexico. 1978
- Eastern Orthopaedic Association 9th Annual Meeting -
"Computerized Axial Tomography about the Hip".
Acapulco, Mexico. 1978
- American Roentgen Ray Society Annual Meeting -
"Computed Tomography of the Spine: Sagittal and
Coronal Reconstruction". 1979
- Eastern Orthopaedic Association 9th Annual Meeting -
"Surgical Management inn the Symptomatic Cervical
Spine in Rheumatoid Arthritis".
Dorado Beach, Puerto Rico. 1980
- 49th Annual Meeting of Orthopaedic Surgeons -
"Computed Tomography in Spondylolisthesis".
New Orleans, Louisiana. 1982
- New York State Society of Orthopaedic Surgeons, Inc.,
Annual Meeting - "Reclassification of Lumbar Fractures

Using the CT Scan". Cancun, Mexico. 1982

50th Annual Meeting of Orthopedic Surgeons -
"Computed Tomography in Thoracolumbar Fractures -
An Analysis of 100 Consecutive Cases".
Anaheim, California. 1983

Scientific Presentations...Continued:

New York State Society of Orthopaedic Surgeons -
Annual Meeting - "Burst Fractures of the Thoracic
and Lumbar Spine, Surgery vs. Conservative
Treatment". May 20, 1983

Scoliosis Research Society, Annual Meeting -
"Scintered Fibermetal Spinal Implants: An
Experimental Evaluation". New Orleans, Louisiana. Sept. 1983

Scoliosis Research Society, Annual Meeting -
"Spondylolisthesis: Slipping When Does It Occur?"
New Orleans, Louisiana. Sept. 1983

Eastern Orthopaedic Research Society -
"Non-Scoliotic Management with segmental
instrumentation; animal and cadaver biomechanical
analysis with clinical experience".
Palm Beach, Florida. Oct. 1983

51st Annual Meeting of Orthopaedic Surgeons -
"Anterior Decompression of Thoracolumbar Fractures
through Retroperitoneal Approach".
Atlanta, Georgia. Feb. 1984

Annual Meeting of Orthopaedic Research Society -
"Dermatome-Stimulated Cortical Evoked Potentials
(DCEPs) in the Diagnosis of Lumbosacral Root
Lesions". Atlanta, Georgia. Feb. 1984

Annual Meeting of Western Trauma Association -
"Luque Segmental Spinal Instrumentation in
Non-Scoliotic Conditions - A Biomechanical and
Clinical Analysis". Steamboat Springs, Colorado. Feb. 1984

New York State Society of Orthopaedic Surgeons -
"Luque Segmental Spinal Instrumentation in
Non-Scoliotic Conditions - A Biomechanical and
Clinical Analysis". Tarpan Springs, Florida. May 1984

International Society for the Study of the
Lumbar Spine - "Burst Fractures of the Fifth
Lumbar Vertebra". Montreal, Canada. June 1984

International Society for the Study of the
Lumbar Spine - "Scintered Fibermetal Spinal
Implants: An Experimental Evaluation in
Primates". Montreal, Canada. June 1984

Scientific Presentations...Continued:

International Society for the Study of the
Lumbar Spine - "CT Discography and Scanning in
the Post-Chymodiactin Patient; Correlation with
Clinical Results". Montreal, Canada. June 1984

Lubicky, J.P.; Fredrickson, Bruce E.; Yuan, H.A.;
Froehling, A: Scintered Fibermetal Spinal Implants.
An Experimental Evaluation,
Scoliosis Research Society Meeting. 1984

North American Lumbar Spine Association -
Static Biomechanical Evaluation of Six Internal
Fixation Devices for the Lumbar Sacral Junction".
Laguna Niguel, California. July 1985

Eastern Orthopaedic Association, Annual Meeting -
"Low Back Disorders; Non-Surgical Management -
Non-Surgical Treatment including Chemonucleolysis
"Low Back Disorders: Surgical Treatment",
Boca Raton, Florida. Oct. 1985

International Society for the Study of the
Lumbar Spine - "Non-Surgical Management of
Thoracic and Lumbar Fractures in Neurological
Intact Patients: CAT Scan Evidence of Reabsorption
of Bony Canal Syndrome". Australia. April 1985

International Society for the Study of the Lumbar Spine - Static Biomechanical Evaluation of Six Internal Fixation Devices for the Lumbar Sacral Junction. Australia. April 1985

American Spinal Injury Association, Annual Meeting - "Biomechanical Comparison of Seven Internal Fixation Devices for the Lumbosacral Junction". San Francisco, California. March 1986

International Society for the Study of the Lumbar Spine - "McKenzie Treatment of Low Back Pain: A Correlation of Significant Factors in Determining Prognosis". Dallas, Texas. May-June 1986

Scientific Presentations...Continued:

Scoliosis Research Society Meeting - "Biomechanical Comparison of Seven Internal Fixation Devices for the Lumbosacral Junction", "A Biomechanical Analysis of the Effectiveness of Posterior & Anterior Fusions with Facet Fixation in Beagle Lumbar Spine", "I-Plate System for Stabilization of Anterior and Thoracolumbar Interbody Fusion". 1986

AO-ASIF Spine Course - "Non-Operative Treatment of Thoraco-Lumbar Injuries". Davos, Switzerland. Dec. 1986

American Spinal Injury Association - "Anterior Decompression of Burst Fractures with I-Plate Fixation". Boston, Mass. March 1987

Surgical Grand Rounds, SUNY Health Science Center - "Thoracolumbar Spine Fractures and Their Management". Syracuse, New York. April 1987

Fitness and Wellness Lecture Series, SUNY Health Science Center - "Back Problems, Conditioning and

- Rehabilitation". Syracuse, New York. April 1987
- New Jersey Medical Center - "Thoracic and Lumbar Spine Fractures; Conventional Fixation Devices and Projection into future investigation". New Jersey. June 1987
- North American Spine Society Meeting - "Clinical and Biomechanical Evaluation of an I-Plate System for Anterior Spinal Surgery". Banff, AP, Canada June 1987
- International Association for the Study of Pain Vth World Congress on Pain-"Posterior Ramus Block for Treatment of the Facet Syndrome". Hamburg, West Germany August 1987
- AO Spine Course-"Non-Operative Treatment of Spinal Injury", "Patient Selection for Lumbosacral Surgery for Degenerative Disc Disease". Clearwater Beach, Florida October 1987

Scientific Presentations...Continued:

- Orthopaedic Trauma Association Annual Meeting-"Treatment of Thoracic and Lumbar Burst Fractures using Anterior Stabilization: A Clinical and Experimental Study", "Reduction of the Intraspinous Fragment in Burst Fractures". Baltimore, Maryland November 1987
- Western Trauma Association-"Treatment of Thoracic and Lumbar Burst Fractures Using Anterior Stabilization: A Clinical and Experimental Study". Steamboat Springs, Colorado Feb.-Mar. 1988
- Scoliosis Research Society Annual Meeting - "A Three Phase Biomechanical Evaluation of Short Segment

Anterior and Posterior Fixation Systems".
Baltimore, Maryland. Sept.-Oct. 1988

AO Spine Course - 1.) "Non-Operative Treatment
of Spinal Injury";2.) "Approach to the Surgical
Management (Including Plate Fixation)".
Davos, Switzerland. Dec. 1988

American Orthopaedic Association Residents
Conference - "Epidural Steroids in the Conser-
vative Management of Low Back and Leg Pain".
Rochester, NY. March 1989

Symposium on Lumbar Internal Fusion with
Internal Fixation - "Lumbar Internal Fixation
without weight sharing". Quebec, Canada. July 1989

AO\ASIF SPINE Course - "Biomechanics of Intra
spinal Fragment Reduction", "Non-Operative
Treatment of Spinal Injury", "Approach to the
Surgical Management of the degenerative Spine".
Vail, Colorado. Sept. 1989

Challenge of Lumbar Spine - "Biomechanical
Analysis of various internal fixation systems
and clinical significances".
San Francisco, California. Nov. 1989

Orthopaedic Research Society - "Evaluating
SCEP's during Orthopedic Procedures on the
Spine". New Orleans, Louisiana. Feb. 1990

Keystone Spine Meeting - "Biomechanics of
Fusion and Fixation", "Big Anterior Surgery".
Keystone, Colorado. March 1990

Scientific Presentations...Continued:

Challenge of Cervical Spine - The New Challenge -
"Anterior Plating for Cervical Fractures and Dislocations".
San Antonio, Texas. April 1990

International Society for the Study of the Lumbar Spine -
"Degenerative Spondylolisthesis Treated with a Reduction-

- Fixation Instrumentation System".
Boston, Massachusetts June 1990
- North American Spine Society Annual Meeting -
"Spondylolisthesis: The Natural History
Age 5-40". Monterey, California. Aug. 1990
- North American Spine Society Annual Meeting -
"Update on Anterior Spinal Fixation Systems".
Monterey, California. Aug. 1990
- Orthopaedic Trauma Association - "Contribution
of the Posterior Annular Attachments in the
Reduction of Vertebral Burst Fractures",
"Anterior Interbody Fixation Devices".
Toronto, Ontario, Canada. Nov. 1990
- The International Conference on Spinal Surgery
1990 (ICSS'90) - "Cervical and Lumbar Discography",
Surgical Treatment of Cervical Spine Injury",
Anterior Thoracic and Lumbar Spine Fixation",
Surgical Treatment of Thoracolumbar Spine Injury".
Taipei, Taiwan. Nov. 1990
- Orthopaedic Trauma Association, American Academy of
Orthopaedic Surgeons Specialty Day - "Timing of Operative
Intervention in the Management of Acute Spinal Injuries".
J. Schlegel, H. Yuan, B. Fredrickson, J. Bayley.
Anaheim, California. March 1991
- International Society for the Study of the Lumbar Spine -
"Mechanics of Anatomic Reduction of Thoracolumbar Burst
Fractures". Zou, D., Chang, K., Donovan, D., Edwards, T.,
Fredrickson, B., Yuan, H. Heidelberg, Germany
March 1991
- International Society for the Study of the Lumbar Spine -
"Orientation of Transpedicular Vertebral Screws in Human
Vertebrae: Effect on Screw Vertebrae Interface Stiffness.
A Biomechanical Study of the Transpedicular Screw Fixation
in Different Direction". Wu, S., Liang, P., Edwards, T.,
Zou, D., Yuan, H. Heidelberg, Germany March 1991

Scientific Presentations...Continued:

German Speaking Association and Orthopedic Trauma Association
"Timing of Operative Intervention in the Management of Acute
Spinal Injuries". J. Schlegel, H.Yuan, B. Fredrickson,
J. Bayley. Vienna, Austria. May 1991

American Orthopaedic Association Meeting -
"Alteration of neuroforaminal size secondary to cervical
motion". Palm Beach, Florida June 1991

Scoliosis Research Society - Wu, S.; Albanese, S.: Edwards.
W.T.; Zou, D.; Fay, L.; Ordway, N.R.; Liang, L.; Yuan, H.:
Orientation of Transpedicular Vertebral Screws: Effect of
Screw-Vertebra Interface. Sept. 1991

59th Annual Meeting American Academy of Orthopaedic
Surgeons - Instructional Course - "Thoracolumbar Spine
Fractures and Treatment" and "Indications for Surgery in
Conservative Care". Washington, D.C. 1992

59th Annual American Academy of Orthopaedic Surgeons -
"Interference Screw Fixation of Anterior Cervical
Grafts: An in vitro Biomechanical and in vivo Sheep Cervical
Spine Study of a New Method of Cervical Fixation.
Washington, D.C. 1992

Pedicle Fixation of the Lumbar Spine Course - "R.F. System",
"Overview of the Available Pedicle Screw Systems: A
Biomechanics and Indications Classification".
Lab and Demo Session - 1) Wiltse System; Fixation of
Degenerative Scoliosis; 2) Options and Indications for
Interbody Fusion and Spacers, including Autograft, Allograft,
and Synthetic Spacers, Round Table Discussion - Fracture
Table. Phoenix, Arizona. April 30-May2,1992

International Society for the Study of the Lumbar Spine
Annual Meeting-"The Effect of Lumbar Distraction and
Decompression in Reducing Intervertebral Canal Stenosis",
"Viscoelastic Response of Intact and Dissectomized
Intervertebral Disc in Flexion-Compression and in Pure
Compression", "Vertebral Burst Fractures: An Experimental
morphologic and Radiographic Analysis".

Chicago, Illinois

May 20-24, 1992

American Orthopaedic Association 106th Annual Meeting -
"The Assessment of Computed Tomography of Neuroforaminal
Stenosis". Coronado, California June 6-9, 1993

Scientific Presentations...Continued:

AME Symposium - "Anterior Cervical Instrumentation"
Boston, Massachusetts 1992

North American Spine Society 7th Annual Meeting -
"Time Dependent Response the Intervertebral Disc in Flexion-
Compression Following Discectomy".
Boston, Mass. July 1992

AO Spine Course, CHAIRMAN - "Thoracolumbar Trauma", "Spine
Trauma on New Horizons". Taichung, Taiwan Sept. 3-6, 1992

Controversies in the Diagnosis and Treatment of Lumbar
Instability - "RF System", "Analysis and Result using the
Long Beach System". Lake George, NY Oct. 1992

Spinal Symposium - "Design Principles and Instrumentation
Techniques for the Lumbar Spine". New York, NY Oct. 1992

The 17th Annual New Jersey Orthopaedic Symposium in
conjunction with The 25th Annual Northeastern-Mid-Atlantic
orthopaedic Residents Conference - "Treatment of Spine
Fractures". Somerset, New Jersey Oct.23-24, 1992

Round Table Symposium at North American Spine Society
Meeting - "Fusion Controversies" 1992

15th Singapore Orthopaedic Meeting - "Choice of Spinal
Instrumentation Based on Biomechanical Assessment",
"Cervical Cord Injury-The Place for Steroid Therapy and
Cord Decompression", "Management of Thoraco Lumbar Burst
Fracture". Singapore Nov. 12-15, 1992

Techniques in Spinal Instrumentation - "Posterior Spinal
Fixation for Thoracolumbar Trauma: A Spectrum of Treatment"

New York, New York Dec. 11-12, 1992

Disorders of the Spine, presented by the
Spine Center/Florida Orthopaedic Institute,
University of South Florida -
"Indirect Fracture Reduction".
Snowbird, Utah Jan.10-15, 1993

American Medical Electronics National Sales Meeting -
"Thoracolumbar Fractures", "Comparison of Current Systems".
Cliff Lodge, Snowbird, Utah Jan. 23-27, 1993

Scientific Presentations...Continued:

RF System Workshop - "Biomechanics of the RF Systems", Hands-on
Session: Fractures.
Kansas City, Missouri Feb. 6, 1993

Disorders of the Spine and Peripheral Nerve Annual Meeting -
"Collaborative Practice: Neurosurgery with/vs. Orthopaedics".
Tucson, Arizona Feb. 19, 1993

Federation of Spine Associations Annual Meeting -
"Interference Screw Fixation of Cervical Grafts: A Combined
In Vitro Biomechanical and In Vivo Animal Study", MODERATOR,
North American Spine Society Session.
San Francisco, California Feb. 21, 1993

University of Virginia Health Sciences Center -
"Thoracolumbar Fractures, Diagnosis, Management and
Biomechanics", "Anterior Spinal Fusion using BAK Cage".
Charlottesville, Virginia April 21, 1993

Diagnosis and Treatment of Diseases of the Cervical Spine -
"Anterior Cervical Fusion, Autograft vs. Allograft", "Indirect
Reduction Techniques of Burst Fractures in the Thoracolumbar
Spine", "Cervical Anterior Decompression, Distraction for
Foramenal Decompression", and "Anterior Cervical Plate
Fixation". St. Luke's Episcopal Hospital
Houston, Texas April 23-24, 1993

SICOT International Symposium on Spine - "Pulse

Electromagnetic Field in the Assistance of Osteosynthesis used in Lumbar and Cervical Spine Fusion" and "Cervical Posterolateral mass plate Fixation for Spinal Instability".
Seoul, Korea April 27, 1993

SICOT China Spine Session - "Anterior and Posterior Interbody Fusion with BAK System of Cervical and Lumbar Spine", and "Spinal Stim. Blinded Controlled Prospective study for Interbody Fusion". Hangzhou, R.O.C. May 1993

Chung Gun University Spinal Symposium - "Indirect Reduction and experience with RF System for Thoracolumbar Fracture Treatment", "Halifax Clamp for Posterior Cervical Fusion", and "UB Plate for Cervical Posterolateral Mass Fixation".
Kaoshiung, R.O.C. May 1993

Scientific Presentations...Continued:

Pedicle Fixation of the Lumbar Spine and Other Advanced Techniques - " Overview of the Available Pedicle Screw Systems: A Biomechanical Classification", Round Table Discussion - "The Current Status and Future of Artificial Disc Replacements", "General Pedicle Fixation Issues", Panel Discussion - The L4-5 Degenerative Disc Needing a Fusion: Do You Need Pedicle Screws? When Do you Need to Restore the Disc Height? Does the Isolated Floating L4-L5 Fusion Work as Well as the L4-S1 Fusion? How Do You Rehabilitate the Patient After Surgery?", Slide Demonstration - "RF System".
Orlando, Florida May 13-15, 1993

International Society for the Study of the Lumbar Spine - "A biomechanical assessment of the Isola spine construct and the Harrington rod system with and without Drummond wiring", "Determination of the ideal strain for Lumbar Fusions - Biomechanical evaluation of a finite element model of the sheep spine".
Marseilles, France June 15-19, 1993

Spinal Course (Smith & Nephew Richards) - "Indirect Reduction Techniques of Burst Fractures in the Thoracolumbar Spine" and "Spondylo Reduction".
Amelia Island, Florida June 25-26, 1993

Spine Workshop, Thoracolumbar Course - "Anterior Thoracolumbar Fixation". Bethesda, Maryland June 27-July 2, 1993

Spinal Instrumentation Course - "Indications, Contra-indications, results and complications of Lumbosacral Stabilization". Orlando, Florida August 1-5, 1993

AME Course - "The Use of PEMF and the role it plays in Spinal Stim clinical data and review pertinent Cases".
Atlanta, Georgia August 7, 1993

SICOT Meeting - "Biomechanics of Fractures", and "Preliminary Report on Laparoscopic L5-S1 Anterior Discectomy and Fusion Using BAK Cage". Korea Sept.2-3,1993

SICOT Meeting - Chairperson for lecture session:
"Spine Trauma--Conservative vs. Internal Fixation".

Hansen A. Yuan, M.D.

(36)

Korea

Sept. 2, 1993

Mahidol University, Dept. of Orthopaedic Surgery -
"Thoracolumbar Spine Fractures and Indirect Reduction and its
Treatment", Degenerative Lumbar Spine", Cervical Spine
Fractures and It's Management".

Bangkok, Thailand

Oct. 19, 1993

Scientific Presentations...Continued:

Orthopaedic Association of Republic of China - **GUEST SPEAKER**
"Internal Disc Derangement, Diagnosis, Treatment and Prognosis", "The Natural History of Spondylolysis and Spondylolisthesis Isthmic and Degenerative, Indications for Reduction with Review of Literature and Discussion of Techniques of Reduction and Stabilization".
Taipei, Taiwan Oct. 21-23, 1993

Arthroscopic Microdiscectomy of the Lumbar Spine Minimal Intervention in Spinal Surgery- "Posteromedial, Posterolateral and Anterior Approaches to the Lumbar Spine, When and Why"?
Philadelphia, Pennsylvania Nov. 5-6, 1993

SSAF State of the Spine from A to Z - "Posterior Thoracolumbar Instrumentation for Trauma".
Puerto Rico Nov. 12-15, 1993

International Society for the Study of the Lumbar Spine Instructional Course - "Lumbar Spine Anatomy", "Lumbar Disc Herniation" "Infection".
Buenos Aires, Argentina Nov. 18-20, 1993

Disorders of the Spine; 6th Annual Ski Snowbird With The Spine Center-"Indications for Reduction of Low Grade Degenerative or Isthmic Spondylolisthesis Combined with Instrumentation and Spinal Fusion".
Snowbird, Utah Jan. 9-14, 1994

Controversy and Changing Trends in Spine Care - "Minimally Invasive Techniques". Chicago, Illinois January 26, 1994

Joint Section on Disorders of the Spine and Peripheral Nerves-INSTRUCTOR - "Anterior Cervical Stabilization course".
Fort Lauderdale, Florida February 9, 1994

Joint Section on Disorders of the Spine and Peripheral Nerves-"Diagnostic Signs of Painful Lumbar Discs on MRI and Discography". Fort Lauderdale, Florida February 12, 1994

Current Concepts in Management of Spinal Trauma -
"Anterior Instrumentation for Thoracolumbar Injuries",

Hansen A. Yuan, M.D.

(38)

"Biomechanics of Implants, A Surgeons View", "Posterior
Thoracolumbar Instrumentation for Trauma".
Houston, Texas

March 25-26,1994

Scientific Presentations...Continued:

Smith & Nephew Richards Annual Winter Meeting -
"Minimally Invasive Procedures for the Lumbar Spine -
Present and Future (AMD, BAK & Artificial Disc),
"Secure Strand and C1-2 Odontoid Fixation with C1-2
Transarticular Fixation", Posterior Cervical Wiring
Techniques and Plating Techniques".
Queensland, Australia April 23-30, 1994

The Combined Meeting of Spinal and Paediatric Sections of
W.P.O.A. - "Spondylolisthesis with Isthmic and Degenerative
Spondylo: Indications for Reduction", "Spinal Stenosis",
"Minimal Invasive Surgery, Laser, Percutaneous Suction
Discectomy, Arthroscopic MicroDiscectomy, Percutaneous
Laparoscopic and Posterolateral Approach for Intradiscal
Fusion". Taiwan April 28-30, 1994

European Spine Meeting - "Cervical System: Design Rationale",
"SecureStrand Cable: Cervical Cable", "Interbody Fusion
Implant Rationale of BAK", "Endoscopic BAK".
Dept. of Anatomy, Leiden University, Leiden, Holland
May 5-7, 1994

Third Conference on Controversies In the Treatment of
Lumbar Spine Disease - "Prospective Study using AME Bone
Stimulation in Spinal Fusions", " Long Beach System", and
"Laparoscopic Approach to Anterior Interbody Fusion at L5-S1
Using the BAK Cage Distraction; Post Operative Immobilization.
Orthopaedic Institute of Central New York,
Bolton's Landing, Lake George, NY June 3-5, 1994

American-European Meeting on Pedicle Fixation of the Spine
and Other Advanced Techniques - BAK Workshop
Munich, Germany July 1-2, 1994
Spine Challenge Meeting - "Cervical Spine Injury: Techniques
of Fixation; Old and New July 7-9, 1994

Anterior Surgical Approaches to the Spine - "Caspar Anterior
Cervical System". Memphis, Tennessee July 30-31, 1994

Practical Techniques in Spinal Instrumentation - "Anatomy and
Instrumentation - Posterior Cervical Spine".
Orlando, Florida August 28-Sept.1, 1994

Hansen A. Yuan, M.D.

(40)

European Spine Society - "

Sept. 7-10, 1994

Scientific Presentations...Continued:

Cleveland Orthopaedic Society Symposium on Spinal Implants and Pedicle Screw Fixation - "Historical Cohort Study of Degenerative Spondylolisthesis and Fracture Fixation with Pedicle Screws" October 1, 1994

AME Spine Symposium - "Minimally Invasive Spine Surgery and the Use of PEMF for Fusion Enhancement" Boston, Massachusetts October 28, 1994

State of the Spine A to Z Course - "The Use of Screws in the Pedicle - A Regulatory Update", "Posterior Surgical Treatment of Thoracolumbar Burst Fractures" Phoenix, Arizona November 3-6, 1994

6th Annual Barrow Neurological Institute Spine Workshop - "Minimal Invasive Technique for Disc Surgery and Interbody Fusions", "Techniques for Thoracic and Lumbar Fractures: Indirect Reduction and Fixation" Puerto Rico November 10-12, 1994

San Diego Spine Symposium & Workshop - "Management of Spondylolisthesis in the Adult", Update on Bone Substitutes in Spine Surgery", "The Economics of Spinal Implants". San Diego, California November 18-20, 1994

Korean Spine Society Meeting - "Minimally Invasive Spine Approaches for Discectomy", Minimally Invasive Technique for Lumbar Interbody Fusion Both Laparoscopic and Retroperitoneal Approach Using Special New Techniques". Seoul, Korea November 25-26, 1994

Thai Orthopaedic Association - "Minimally Invasive and Retroperitoneal Insuflated Anterior Lateral Approach and Anterior Laparoscopic Approach to the Lumbar Spine for Discectomy and Fusion", "One Year Follow Up on Experiences with BAK in Posterior Interbody and Anterior Interbody Fusion for Degenerative Disc and Low Grade Degenerative Spondylolisthesis of the Lumbar Spine". Bangkok, Thailand November 30-December 4, 1994

8th International Conference on Biomedical Engineering;

Instructional Course - "Advances in Biomaterials in Spinal Surgery", "Minimally Invasive Disc Surgery", "Role of Pedicle Screw Fixation for Spinal Stabilization", "Indications for Threaded Fusion Cage". Singapore December 7-11, 1994

Scientific Presentations...Continued:

Joint Session on Disorders of the Spine and Peripheral Nerves
of the CNS/AANS - "Absorbable Spinal Implants".
Phoenix, Arizona February 15, 1995

AAOS/AANS Symposium on Spinal Trauma - "Biomechanics and
Treatment of Thoracolumbar Spine Injuries".
Orlando, Florida February 20, 1995

Future Challenges to Spine Surgery - "Minimally Invasive
Spinal Surgery", "The Economics of Spinal Implants".
Tampa, Florida March 10, 1995

Anterior Surgical Approaches to the Spine - "Anterior
Cervical Fixation Alternatives".
Memphis, Tennessee April 1-2, 1995

Japanese Orthopaedic Association Annual Meeting - "Interbody
Fusion with BAK Device". Yokohama, Japan April 9-11, 1995

AANS Spine Trauma Symposium - "
Orlando, Florida April 25-26, 1995

St. Luke's Episcopal Hospital Symposium - "Posteromedial,
Posterolateral, and Anterior Approaches to the Lumbar Spine.
When and Why?", "The Biomechanical Rationale for Interbody
Fusion in the Treatment of Low Back Pain", "Percutaneous
Transperitoneal Endoscopic Anterior Interbody Fusion",
"The Physician's Perspective on Regulation and Litigation in
the Use of New Medical Technologies".
Houston, Texas April 28-29, 1995

Carolinas Medical Center Spring Symposium - "Pedicle Screw
Update", "Minimally Invasive Spine Surgery".
Charlotte, North Carolina May 17-19, 1995

Current Concepts on Surgery of the Spine - 13th Annual
Meeting - "Posterior Surgery for Cervical Trauma; Indications
for Different Approaches", "Indications and Techniques for
Cervical Cable", "Classifications of Thoracic and Lumbar
Spine Injuries; Indications for Surgical Approaches",
"Thoracolumbar Fractures; Posterior Approach Techniques,

Pitfalls, and Results", "Percutaneous Anterior Interbody Fusion Instrumentation". Galveston, Texas May 24-27, 1995

Thoracoscopic Approaches for the Treatment of Thoracic Spinal Pathology - "Surgical Techniques: Anterior Release For Spinal Deformity". Phoenix, Arizona June 1, 1995

Scientific Presentations..Continued:

Minimally Invasive Discectomy/Endoscopy Course -
"Discography, Biopsy, Chymopapain".
Bethesda, Maryland June 15-17, 1995

Smith & Nephew Richards Annual Meeting - "Autograft, Allograft and Substitute Graft Material for Spinal Fusion", "Interbody Fusion with BAK Device", "Overview of Different Minimally Invasive Approaches to the Lumbar Spine and Their Application "

Great Barrier Reef, Queensland July 8-15, 1995
Nineteenth Annual Meeting of the American Society of Biomechanics - "Structural Features and Thickness of the Vertebral Cortex in the Thoracolumbar Spine" - Stanford University, Stanford, California August 24-26, 1995

1995 Missouri State Orthopaedic Association Meeting -
"Minimally Invasive Disc Surgery - Past, Present and the Future", and "Interbody Fusion Technique Using Cages: Comparison of Open and Laparoscopic Approaches" -
St. Louis, Missouri September 9-10, 1995

'95 QINGDAO INTERNATIONAL CONGRESS on ORTHOPAEDICS -
"Minimally Invasive Disc Surgery and Minimally Invasive Spine Fusion Techniques". Qingdao, China October 8-10, 1995

North American Spine Society Annual Meeting - "The Removal of Posterior Lumbar Instrumentation to Relieve Localized Discomfort Over the Hardware", "Clinical and Radiographic Assessment of Fusion Techniques in Degenerative Conditions of the Lumbar Spine", "Complications in the Use of a Pedicle Screw Instrumentation System in Fusions of the Lumbar Spine", "Video Assisted Thoracic Corpectomy and Spinal Reconstruction: A Biomechanical Analysis of Open vs. Endoscopic Technique", "New Concept of H-Reflex from S1 Root Stimulation: A Highly Sensitive Test for S1 Radiculopathy", "Anterior Odontoid Screw Fixation", "Arthroscopic

Microdiscectomy: Post-Operative Imaging Study".
Washington, D.C. October 18-21, 1995

Mexican Orthopaedic Association - "Update in Degenerative Management", "Operative and Non-Operative Treatment and Expected Results of Cervical Spine Trauma", and Spinal Cord Injury Management, "Treatment and Timing".
Tijuana, Baja California October 27-Nov. 1, 1995

Scientific Presentations...Continued:

AAOS Spine Surgical Skills Course - Contemporary Issues in Advanced Spine Surgery - " Indications/Techniques for Fusion in Back Pain Syndromes". San Diego, California Nov.2-3,1995

Asian-Australian Congress of Neurological Surgery - "Arthroscopic Microdiscectomy and Foramenal Arthroscopic Discectomy", and "Interbody Fusion with Back Device".
Taipei, Taiwan November 5-10, 1995

A Contemporary Update on Disorders of the Spine - "Critical Assessment of Indications for Instrumentation in the Cervical Spine". Whistler, British Columbia, Canada
Jan.14-19, 1996

Orthopaedic Research Society 23rd Annual Meeting - "In Vitro Biomechanical Evaluation of the Functional Spinal Unit: After Nucleotomy and with a Hydrogel Implant".
Atlanta, Georgia February 1996

Joint Section on Disorders of the Spine and Peripheral Nerves of the AANS/CNS - "The Role of Electromagnetic Stimulation in Spinal Fusion".
Orlando, Florida Feb. 29, 1996

Contemporary Surgery of the Lumbar Spine - Minimally Invasive Techniques - "Microdiscectomy".
Orlando, Florida March 27, 1996

Current Topics in the Treatment of Spinal Disorders - "Current Regulatory Status of Pedicle Fixation", "Anatomy and

Treatment of the Posterior Cervical Spine", "Laparoscopic Interbody Fusion Techniques", and "New Advances in Lumbar Interbody Fusions: A Retroperitoneal Approach".
Jacksonville, Florida March 28-30, 1996

New Frontiers in Spinal Surgery - "Bone Substance Substitutes", "Posterior Surgery for Cervical Trauma Indications and Approaches", "Minimally Invasive Spinal Surgery: Methods and Indications".
Leiden, Amsterdam April 18-20, 1996

AAOS Course - Debating Complex Issues in Spine Surgery - "Low Back Fusion: Anterior Posterior or Circumferencial".
Washington, D.C. April 24-27, 1996

Scientific Presentations...Continued:

International Intradiscal Therapy Society Meeting -
"Discogenic Pain : Contemporary and Experimental Treatments",
"Minimally Invasive Fusion Techniques of the Thoracic and
Lumbar Spine." Amsterdam, Netherlands May 8-12, 1996

Toronto Endoscopic Spinal Surgery Symposium & Workshop -
"Indications and Techniques for Endoscopic Spinal Fusions".
Toronto, Ontario, Canada May 17-18, 1996

Scoliosis Research Society Thorascopic/Laparoscopic Course -
"Approach to L5-S1 and L4-5", and "Laparoscopic BAK Fusion
and Complications". Cincinnati, Ohio June 12, 1996

8th Annual International Spine Workshop-Thoracolumbar Course-
"Transthoracic Approach - Open and Thoracoscopic Approach"
and "Anterior Lumbar Interbody Fusion (ALIF)".
Bethesda, Maryland June 17-21, 1996

International Society for the Study of the Lumbar Spine
23rd Annual Meeting - "Biomechanical Evaluation of the
Functional Spinal Unit with a Hydrogel Disc Nucleus."
Burlington, Vermont June 24-29, 1996

8th International Operative Course in Spinal Surgery -
"Minimally Invasive Lumbar Spinal Fusion Technique", and
"Minimally Invasive Disc Surgery".
Jakarta, Indonesia June 30-July 3, 1996

Florida Spine Study Group - "Minimally Invasive Techniques
for Disc Surgery and Fusion". July 26, 1996

Anterior Surgical Approaches to the Spine - "Anterior
Cervical Fixation Alternatives".
Memphis, Tennessee August 3-4, 1996

Contemporary Surgery of the Thoracic & Lumbar Spine -
Minimally Invasive Techniques - "What the Future Holds for
Spine Surgery". Orlando, Florida Sept. 8-12, 1996

American College of Osteopathic Surgeons Meeting - "Minimally
Invasive Spine Surgery for Disc Excision and Spine Fusion

Techniques". San Diego, California October 18, 1996

New Horizons in Spinal Surgery - "Laparoscopic for Approach to the Anterior Lumbar Spine for Anterior Column Distraction and Stabilization".

Philadelphia, Pennsylvania November 1-2, 1996

Scientific Presentations...Continued:

Anterior Column Support: Implications in Cervical & Thoracolumbar Spine Surgery - "Posterior Reconstruction for Acute Thoracolumbar Fractures", "When Is Posterior Lumbar Fusion Alone Sufficient?", and "Treatment of Acute Cervical Trauma: Subaxial Spine."
Paradise Island, Bahamas November 7-9, 1996

Society of Military Orthopaedic Surgeons Meeting - "Minimally Invasive Spinal Surgery Techniques with Disc Surgery and 1996 Fusion." San Diego, California November 22, 1996

Peking Union Medical College Hospital - "Cervical Spine - Acute Injury and Fixation", and "Minimal Invasive Disc Surgery - Thoracic and Lumbar Spine."
Beijing, China November 25-26, 1996

Future Challenges to Spine Surgery - "Minimally Invasive Spine Surgery". Palm Springs, California January 3, 1997

AAOS Comprehensive Spine Course - "Surgery for Discogenic Back Pain-Does it Help?", "Arthroscopic Discectomy", "Lower Cervical Spine Fractures: Indications and Surgical Techniques and Results". Tucson, Arizona March 12-15, 1997

North American Spine Society Spine Across the Sea -
MODERATOR - "Tumor/Infection/Deformity"
Kamuela, Hawaii March 17, 1997

Scientific Congress of the Chinese Speaking Orthopaedic Society Symposium - "Minimally Invasive Thoracic Lumbar Decompression and Fusion: Techniques and Indications", and "Anterior Cervical Fixation Alternatives, Controlled Dynamism", and "Anterior Column Load Sharing for Spinal Fusion and the Ability to Indirectly Stabilize and Hence Fusion

Along With Indirect Decompression of Spinal Stenosis Secondary to Degenerative Spondylosis in the Adult Spine".
Shanghai, China March 27-30, 1997

Smith & Nephew International Spinal Meeting - "Posterior Surgery for Cervical Trauma - Indications, Complications, Approaches", and Treatment of Odontoid and C1-2 Fracture Dislocations". Bologna, Italy April 17-19, 1997

Spinal Surgery Association of Republic of China Annual Meeting "New Concept and Research in Low Back Pain", and "Current Trend in Spine Surgery".
Taipei, Taiwan April 26, 1997

Scientific Presentations...Continued:

Minimally Invasive/Endoscopy Course - "Overview of Posterior Percutaneous Procedures". Bethesda, Maryland May 14-16, 1997

International Intradiscal Therapy Society - "Laparoscopic and Minimally Incisional Approaches For Lumbar Spine Discectomy and Fusion". Naples, Florida May 28-31, 1997

Spine Symposium 1997 - "Thoracoscopic Surgical Techniques: Indications, Technique Results, and Future Possibilities", "Laparoscopic, Anterior Lumbar Surgical Techniques: Indications, Techniques, Results, and Future Possibilities", and Round Table Discussion: "Lumbar Spine".
Vancouver, British Columbia July 24-26, 1997

Contemporary Surgery of the Thoracic and Lumbar Spine - Minimally Invasive Techniques - "Clinical Applications of Minimally Invasive Surgery".
Orlando, Florida August 24-28, 1997

8th International Conference on Lumbar Fusion and Stabilization - "Posterior Lumbar Interbody Fusion with Presented by Jie Zhao, M.D.
San Antonio, Texas Sept.30-Oct.4,1997

North American Spine Society - " A Double-Blind Study of Electrical Capacitive Coupling as an Adjunct to Lumbar Spine Fusions", "Changes in Spinal Canal Dimensions Using Interbody

Distraction for Spondylolisthesis", "Posterior Lumbar Interbody Fusion with Single Posterolateral Threaded Cage Insertion", "Failure Properties of a Hydrogel Nucleus in the Intervertebral Disc", and "Open Versus Laparoscopic Fusion of Lumbar Spine Using BAK Fusion Cage".
New York, New York October 22-25, 1997

5th Spinal Surgery Course - "Endoscopic Surgery", "Advances in the Management of Spinal Surgery", and "Cervical Spine Fractures". Hammersmith Hospital, London October 29-31, 1997

17th Congress of the Asean Orthopaedic Association -
"The Role of Interbody Fusion using a Cage Technology".
Penang, Malaysia November 13-16, 1997
The Canadian Orthopaedic Association - A Course on Spinal Disorders - "Indications of Thoracoscopic Release and Fusion", & "Endoscopic procedures for the Lumbar Spine".
Montreal, Canada November 21-22, 1997

Scientific Presentations...Continued:

Philippine Orthopaedic Association Annual Congress -
"Surgical Options for DDD: BAK Interbody Fusion", "Lumbar Spinal Stenosis: Clinical and Radiologic Evaluation and Non-Operative Treatment", and "Minimally Invasive Approaches to the Spine". Quezon City, Philippines December 3-6, 1997

Methods of Interbody Fusion of the Spine - "Interbody Fusion Devices", and "Minimally Invasive and Laparoscopic Approaches to the Spine". New York, New York December 12, 1997

Tenth Annual Ski with the Spine Center - "Surgical Options for Treatment of Primary and Metastatic Spine Tumors".
Whistler, British Columbia, Canada January 18-23, 1998

Spinal Surgery...Current and Innovative Theory and Techniques
"Anterior Thoracolumbar Plates for Trauma", Posterior Lateral Interbody Approach with Bak Cage & Facet Fixation", and
"Anterior Load Sharing: Thoracolumbar & Lumbar Anterior Load Sharing and Fixation".
Snowmass, Colorado January 24-27, 1998

Anterior Lumbar Fusion: Instructional Course -
"Can Instability be Treated by Stand-Alone Devices?",
"Comparative Laparotomy to Laparoscopic Spine Fusion Using
the BAK and Introduction of New BAK Proximity Cage", and
"Minimally Invasive Disc Surgery Revisited and What's New".
Leuven, Belgium February 13-14, 1998

Federation of Spine Associations - "Changes in Spinal Canal
Dimension Using Interbody Distraction for Spondylolisthesis".
Presented by Lisa Fay.
New Orleans, Louisiana March 22, 1998

44th Annual Meeting of the Orthopaedic Research Society -
"Gelfoam as a Barrier for Preventing PMMA-Induced Thermal
Injury of the Spinal Cord: In-Vitro and In-Vivo Studies in
Pigs". New Orleans, Louisiana March 1998

Ray TFC Symposium - "My Experience with BAK Open
Anterior/Posterior Laparoscopic and Transforaminal Approach
with Adjunctive Fixation and Lateral Approach using Minimally
Incisional Approach".
The Woodlands, Texas April 3-4, 1998

Japanese Orthopaedic Association Annual Meeting -
"Endoscopic Surgery of Degenerative Lumbar Spine".
Tokushima, Japan April 17-20, 1998

Scientific Presentations...Continued:

The Association of Spinal Surgery R.O.C. Annual Conference -
"Endoscopic Surgery of the Degenerative Lumbar Spine".
Taipei, Taiwan April 25, 1998

AAOS Debating Complex Issues in Spine Surgery -
Videotaped Surgical Demonstration-"Percutaneous Discectomy -
Alternative Techniques", "Anterior Techniques - Laparoscopic:
results/Techniques".
Chicago, Illinois April 30-May 21, 1998

AAOS Debating Complex Issues in Spine Surgery -
"In My Practice - Case Presentations of Low Back Pain".
Chicago, Illinois April 30-May 21, 1998

International Spine Meeting - "Dynamic Fixation of the Cervical Spine", Anterior Fusion of the Lumbosacral spine through Minimally Invasive Techniques", and Biomechanics of the Anterior Fusion of the Lumbosacral Spine with Cages".
Lisbon, Portugal May 8-9, 1998R

ISSLS Annual Meeting - Paper Presentation - "Posterior Lumbar Interbody Fusion with Single Posterolateral Threaded Cage Insertion: A Biomechanical Evaluation".
Brussels, Belgium June 12, 1998

Long Island Spine Group - "Status of Intervertebral Disc Replacements". Commack, New York June 27, 1998

Sulzer Spine-Tech Dinner - Guest Speaker - "Theory of Discogenic Pain BAK/Proximity Indications, Future Technologies". Boston, MA. September 3, 1998

Western Orthopaedic Association - "Complications Using the BAK Interbody Fixation Cages", and "The Next Generation Interbody Fixation Fusion Cages".
Aspen, Colorado September 6-10, 1998

North American Spine Society Annual Meeting - "Adcon-L Anti-Adhesion Barrier Gel Inhibits Post-operative Peridural Fibrosis and Reduces Pain: Randomized, Controlled, Double-blind Clinical Studies", and "Effects of a Synthetic Ligament on Anterior Cervical Interbody Fusion".
San Francisco, California October 28-31, 1998

North American Spine Society Symposium - "The Artificial Disc: Real Solution or Dream".
San Francisco, CA. October 30, 1998

Scientific Presentations...Continued:

Korean Spine Society Meeting - "Stand-Alone Interbody Fusion," and "Minimally Invasive Disc Surgery for Discogenic Pain". Seoul, Korea November 20, 1998

The Management of Vertebral Intercorporeal Disorders - What Works and What Doesn't - "Lumbar Fusions - New Techniques and Spacers". Chicago, Illinois December 5-6, 1998

Chinese University of Hong Kong - "Surgical Treatment for Low Back Pain", "Lumbosacral Fusion: Technical Principles", "Future of Degenerative Disc Disease Management", "Management of Degenerative Adult Scoliosis", and "Minimal Invasive Surgery in Spine".
December 12-19, 1998

A Contemporary Update on Disorders of the Spine - Ski With the Spine Center - "Primary Bone Tumors" and "New Directions in Cages".
Whistler, British Columbia, Canada January 17-22, 1999

Joint Section on Disorders of the Spine and Peripheral Nerve - "Metallic Interbody Struts and Threaded Cages".
Orlando, Florida February 10-13, 1999

Complications of Spinal Fusion - "Anterior Cervical Fusion: Graft Subsidence, Dislodgement and Collapse" and "Interbody Cages: Indications and Techniques".
Squaw Creek, Olympic Valley, California March 6-7, 1999

Laparoscopic Spinal Fusion and Anterior Cervical Fusion with the BAK Cage - "Laparoscopic Spinal Surgery Set-up, Indications and Technique", "Pitfalls and Contra-Indications Managing the Learning Curve in Laparoscopic Spinal Surgery", and "Anterior Cervical Interbody Fusion".
National University Hospital, Singapore April 16-17, 1999

Minimally Invasive Technologies: Medicine in the 21st Century "Hardware Controversies".
Dallas, Texas May 14-15, 1999

Japanese Spine Research Society - "Spine Fusion Past, Spine Fusion Present, Spine Fusion Future". Tokyo, Japan
June 3-5, 1999

6TH International Meeting on Advanced Spine Techniques (IMAST) "Nucleus Replacement: A Concept for a Functional Replacement". Vancouver, B.C.
July 8-10, 1999

Scientific Presentations...Continued:

5th Stryker Spinal Invitational Symposium - "An Overview on Primary Spinal Tumors, Diagnosis and Treatment".
Brazil September 27-29, 1999

SulzerMedica Symposium - "Laparoscopic Fusion of the Lumbar Spine". Kyoto University, Kyoto, Japan October 5, 1999

SulzerMedica Symposium - "Clinical Result of BAK Interbody Fusion Cage", "Clinical Experience with Pedicle Screws Using CAS System". Saitama University
Tokyo, Japan October 6, 1999

SulzerMedica Symposium - "New Generation of Interbody Fusion Cage", "Clinical Experience with Pedicle Screws Using CAS System". Osaka, Japan October 8, 1999

North American Spine Society Annual Meeting - Paper Presentation - General Session: Fusion Cages - "Four Year Follow Up Results of Lumbar Spine Arthrodesis Using the BAK/LFusion Cage". John Sherman, MD; Stephen Kuslich, MD; Guy Danielson, MD; John D. Dowdle, MD; Bruce Fredrickson, MD; Hansen Yuan, MD. October 1999

North American Spine Society Annual Meeting - Symposium - Fusion Cages: Are They Stand Alone Devices? - "When Are Cages Alone Enough?" Chicago, Illinois October 22, 1999

Current Controversies and Challenges in Spine Surgery-A Spine Fellows Course - "Finding and Building an Academic Spine Practice", and "The Future of Organized Spine Care".
Miami Beach, Florida November 18-21, 1999

The Spine: Current Concepts and Treatment - 12th Symposium of The Spine Study Group - "Future Answers to Spinal Disease and Disc Degeneration". Naples, Florida February 2-6, 2000

AANS/CNS Section on Disorders of the Spine & Peripheral Nerves Annual Meeting - "Early Clinical Outcomes with Kyphoplasty, the Minimally-Invasive Reduction and Fixation of Painful Osteoporotic Vertebral Body Compression Fracture (VCF)". Indian Wells, California February 23-26, 2000

Scientific Presentations...Continued:

American Academy of Pain Management 16th Annual Meeting -
POSTER PRESENTATION - Wetzell, F.Todd; Andersson, G.; Pelosa,
J.; Rashbaum, R.; Lee, C.; Yuan, H.; Phillips, F.M.:
"Intradiskal Electrothermal Annuloplasty (IDET) to Treat
Discogenic Low Back Pain: The Preliminary Results of a
Multi-Center Prospective Trial."
New Orleans, Louisiana February 25-26, 2000

National Association of Orthopaedic Nurses Nursing and Allied
Health Program - "Cage Fusions - Laparoscopic", and
"Intradiscal Electro Thermal Therapy".
Orlando, Florida March 15, 2000

Stryker 6th Interbody Fusion Meeting - "Pre-Clinical Safety
Evaluation of the Aquarelle Hydrogel Disc Nucleus".
Barcelona March 31, 2000

Japanese Orthopaedic Association - " Long Term Follow Up
after Spinal Instrumentation - Indication and
Contraindication". Kobe, Japan April 7, 2000

International Society for the Study of the Lumbar Spine
Annual Meeting - "Indications for Cages (BAK & Proximity) as
a Stand-Alone Device", and "Indications for Cage(s) with
Pedicle Screws". Adelaide, Australia April 10, 2000

Spine 2000 Symposium - "Artificial Disc - Myth or Reality",
"Cervical Plates", "Vertebroplasty and Kyphoplasty", and
"IDET Procedure - My Personal Experience".
Newport Beach, California April 28-29, 2000

Failures of Spinal Surgery: A Tribute - "Limitations of
Interbody Fixation and Fusion", "Limitations of Posterior
Fixation", "Bone and Bone Substitute", and "IDET".
Baltimore, Maryland May 12-14, 2000

Endoscopic Techniques in Spinal Surgery - World Endoscopy

Congress 2000 - "Endoscopic Lumbar Spinal Fusion",
Laparoscopic Lumbar Spinal Fusion - Techniques and Tips", and
Managing the Learning Curve in Laparoscopic Spinal Surgery".
Singapore June 1-4, 2000

7th International Meeting on Advanced Spine Techniques -
"Kyphoplasty for Osteoporotic Fractures", and "Lumbar
Intradiscal Electrothermal Therapy".
Barcelona, Spain July 6-8, 2000

Scientific Presentations...Continued:

Spine Across the Sea - "Predictive Factors Associated
with Favorable Outcomes using Intradiscal Electrothermal
Modulation (IDET)". Kamuela, Hawaii July 26, 2000

Singapore Orthopaedic Association Annual Meeting - "Frontiers
in Spinal Surgery", "New Developments in Cage Technology",
"Computed Aided Surgery of the Spine", and "Bone Graft
Enhancement & Bone Graft Substitute".
Singapore Sept. 6-8, 2000

Spinal Surgeon International Symposium - "Update Concerning
the Artificial Disc in Degenerative Disc Disease".
Napa Valley, California Sept. 21-23, 2000

Jefferson Orthopaedic Society 40th Annual Meeting-
"Minimally Invasive Treatment Modalities for Degenerative
Disc Disease". Philadelphia, Pa. November 3-4, 2000

Anterior Column Support of the Spine VI: Fusion Versus
Motion - "Kyphoplasty", Stand-Alone Threaded Anterior
Interbody Devices", and "Prosthetic Nucleus Replacement".
Scottsdale, Arizona November 8-11, 2000

Current Controversies and Challenges in Spine Surgery: A
Spine Fellows Course - "Artificial Discs", "Stand-Alone
ALIF", "Bone Graft Substitutes", and "Nuclear Replacement".
Naples, Florida December 6-10, 2000

1st Meeting of Advanced Technologies in Spinal Treatment -
"Vertebroplasty and/or Kyphoplasty", and "Spine Fusion - Long

Term Follow Up: Spine Fusion Future and Beyond".
Tokyo, Japan January 27-28, 2001

Stryker Canada Alpha Group - "Percutaneous Disc Replacement:
Myth or Reality", and "Vertebroplasty vs. Kyphoplasty for
Osteoporotic Fractures".
Los Cabos, Mexico February 11-18, 2001

Stryker Spine 7th Interbody Technology Meeting - "Aquarelle
Nucleus Replacement".
Hong Kong March 29-30, 2001

Stryker-Howmedica Meeting - "Artificial Disc Technique
(Aquarelle/Hydrogel). Istanbul April 22-26, 2001

Acuna & Fombona 4th International Meeting - "Trifix System".
Bavaro, Dominican Republic April 30, 2001

Scientific Presentations...Continued:

Spine Arthroplasty - International Symposium on
Intervertebral Disc Replacement & Non-Fusion Technology -
"Aquarelle" Artificial Nucleus
Munich, Germany May 3-5, 2001

French Neurosurgical Society of Spine Surgery-La societe
francophone de neurochirurgie du rachis Annual Meeting -
"Low Back Pain, Physiopathology Present and Future"
Lille, France May 10-11, 2001

Japan Society for the Study of Surgical Technique for Spine
and Spine Nerves - "Spirus 90D"
Kyoto, Japan Sept. 14-15, 2001

ISSLS Instructional Course - "BAK Cages, Basic Science,
Clinical Outcome", VTI - Electromagnetic Guidance System -
State of the Art", and "Artificial Nucleus Replacement".
Beijing, China Sept. 21-23, 2001

II Advance Venezuelan Spine Meeting - "Cervical - Surgical
Treatment: Anterior Vs. Posterior approach", "Surgical
Treatment for Spinal Trauma - Anterior Approach", and
"Surgical Treatment for Spinal Trauma - Posterior Approach".
Caracus, Venezuela Sept. 28-29, 2001

North American Spine Society 16th Annual Meeting - PAPER
PRESENTATION -

1) "Intradiscal Electrothermal Therapy (IDET) to Treat
Discogenic Low Back Pain: Two-Year Results of a Multi-
Center Prospective Cohort Study", F.Todd Wetzell, MD; Gunnar
B.J. Andersson, MD; John H. Pelozo, MD; Ralph F.Rashbaum, MD;
Casey K. Lee, MD; Hansen A. Yuan, MD; Frank M. Phillips, MD;
and Howard S. An, MD.

2) "Characterization of a Developing Lumbar Arthrodesis in
Sheep Model", Mark R. Foster, PhD, MD, Hansen A. Yuan, MD,
Matthew J. Allen, MB, PhD, and Joanne E. Schoonmaker, AAS.

3) "A Recombinant Bone Growth Factor and a Mineralized
Collagen Matrix (Healos/MP52) in Threaded Interbody Fusion
Cages", James Maxell, MD, Nicholas Theodore, MD, Thomas
Gilbert, MD, Bettina Willie, MS, Roy Bloebaum, PhD, Nathaniel
R. Ordway, MS, Hansen A. Yuan, MD, and Steven Griffith, PhD.

4) "Two-Year Post-treatment Evaluation of Pain Levels and Location of Pain After Intradiscal Electrothermal Annuloplasty (IDET) to Treat Discogenic Low Back Pain", Casey K. Lee, MD; Roseland, NJ; F.Todd Wetzel, MD; Seattle, Washington October 31 - Nov. 3, 2001

Scientific Presentations...Continued:

North American Spine Society 16th Annual Meeting -Symposium -
Artificial Intervertebral Discs and Beyond - "Aquarelle
Nuclear Replacement".
Seattle, Washington October 31, 2001

North American Spine Society Annual Meeting - POSTER
PRESENTATION - "Laparoscopic Accessibility of the Anterior
Lumbar Discs Through Magnetic Resonance Imaging (MRI)" ,
Choen Keun Park, MD, PhD; J.K. Kang, MD; Colleen Sweeney, MA;
Hansen A. Yuan, MD; Hyun Choel Choi, MD; J.Y. Kim, MD; J.E.
Lee, MD; J.H. Sung, MD; S.J. Choic, MD; S.W. Lee, MD; S.C.
Park, MD; and K.S. Cho, MD.
Seattle, Washington October 31 - Nov. 3, 2001

35th Japanese Scoliosis Society - President Invitational
Lecture - "Lumbosacral Changes after Scoliosis Surgery and/or
Long Segment Thoracolumbar Fusion".
Nagoya, Japan November 17, 2001

Current Concepts in Spinal Disorders - Sponsored by Cedars-
Sinai Medical Center Department of Surgery - "Nucleus
Replacement", Annular Repair", and "FluoroCAT in
Kyphoplasty". LaQuinta, California March 8-9, 2002

2nd Annual Pittsburgh Spine Symposium - Sponsored by
Department of Orthopaedic Surgery, Human Motion Center,
Allegheny General Hospital - "Degenerative Disc Disease: The
Role of Nucleus Replacement", and "Kyphoplasty".
Pittsburgh, Pennsylvania March 12, 2002

AO ASIF Comprehensive & Interactive Spine Courses -
"Treatment of Discogenic Low Back Pain", and "Disc
Replacement".
Coronado, California April 18-21, 2002

Spine Arthroplasty 2 - Intervertebral Disc Replacement & Non-
Fusion Technology - "Nucleus Replacement".
Montpellier, France May 6-8, 2002

Scientific Presentations...Continued:

1st Annual Meeting of Korean Minimal Invasive Spine Surgery
Research Society - "Nucleus Replacement", "Annual Repair",
and "FluoroCAT with Kyphoplasty".
Korea May 31-June 1, 2002

A-Spine Meeting - "Kyphoplasty".
Phuket Island, Thailand June 6, 2002

15th Annual International Intradiscal Therapy Society Meeting
"Minimally Incisional Nucleotomy with Anterior Nucleus
Replacement and Annular Repair".
Seoul, Korea August 21-24, 2002

SICOT World Congress - "Status of Artificial Disc, Present
and Future" and "Indications and Techniques for Kyphoplasty".
San Diego, California August 23-30, 2002

9TH Annual Meeting of Japan Society for the Study of Surgical
Technique for Spine and Spinal Nerves - "Clinical Experience
using a new radius lock system for lumbar fusion".
Nagoya, Japan. Sept.14, 2002

South Carolina Spine Society Annual Meeting - "Disc and
Nucleus Replacement".
Charleston, South Carolina Sept.21, 2002

Asian Association for Dynamic Osteosynthesis Vertebroplasty
Workshop - "Basic Science and Biomechanics of
Vertebroplasty", "Vertebroplasty in Spinal Tumors", "Future
Development of Kyphoplasty: indications/techniques and
results" and Future Development of Fluoro-CAT for
Kyphoplasty".
Hong Kong October 4, 2002

5th Combined Meeting of Spinal and Paediatric Sections, APOA
"Degenerative Disc Disease", and "Bone Substitutes -
Advantages vs. Disadvantages".
Singapore October 13-16, 2002

International Conference on Spinal Surgery - "IDET for the
Treatment of Chronic Discogenic Back Pain", "Degenerative

Hansen A. Yuan, M.D.

(62)

Disc Disease Treatment; Current and Future", and "Nucleus and
Disc Replacement Status".

Beijing and Chongqing, China

October 15-21, 2002

Scientific Presentations..Continued:

3rd World Congress Minimally Invasive Spinal Surgery &
Medicine - "Disc Arthroplasty: Present and Future".
Phoenix, Arizona December 8-11, 2002

Kyphon National Sales Meeting - "Kyphoplasty".
Bonita Springs, Florida January 9-12, 2003

Second Annual Symposium on Current Concepts in Spinal
Disorders - "Disc Nucleus Replacement and Annular Repair
Technology".
LaQuinta, California February 28 - March 2, 2003

The Journey of Spine - Spine Arthroplasty Society -
"The Argument for Nucleus Replacement", "Other Future Disc
Technology".
Scottsdale, Arizona May 1-3, 2003

World Spine II Precourse - "Contemporary Vertebral
Augmentation Treatments of Spine Fractures"
Chicago, Illinois August 10, 2003

World Spine II - "Cost of Technology"
Chicago, Illinois August 11, 2003

Eastern Japan Society of Clinical Orthopaedics - "Artificial
Nucleus" and "Vertebroplasty and Kyphoplasty"
Tokyo, Japan September 24-28, 2003

NASS Pre-Course 18th Annual Meeting - Total Disc Replacement
"Nucleoplasty - The Current State of the Art"
San Diego, California October 21, 2003

2nd Annual Dynamic Spine Stabilization: Arthroplasty
Techniques and Technology - "Spine Stabilization: Conversion
from Fusion to Disc Replacement", and "Other Nuclear Disc
Replacement Devices"
Dallas, Texas November 14-15, 2003

Korea Orthopedic Spine Surgery Society Conference - "Non-
Fusion Techniques in USA".
Seoul, Korea November 28-29, 2003

1st Chinese Scoliosis Symposium - "Single Stage Kyphosis
Correction".

Beijing, P.R. China

May 13-14, 2004

Scientific Presentations..Continued:

7th Spinal Surgery Meeting of Chinese Medical Association
Orthopedic Surgery - " " "
Beijing, P.R. China May 15-17, 2004

Portuguese Spine Society - "IDET as part of the conservative
management for low back pain in sports".
Lisbon, Portugal May 28, 2004

AAOS/CSOS Scientific Congress - "Nucleus Replacement",
"Kyphoplasty, Downward Spiral", and "Kyphoplasty for Spinal
Metastatic Tumor".
Beijing, China Sept. 22-24, 2004

Emerging Technologies in Spine Surgery - "Nucleus Replacement
Devices".
Washington, D.C. Sept. 30 - Oct. 2, 2004

Current Issues and Techniques in Complex Lumbar Spine
Surgery- "Lumbar Disc Replacement".
St. Louis, Missouri Nov. 11-13, 2004

The First National Congress of Minimal Invasive Spine Surgery
"Kyphoplasty for Hematologic and Metastatic Tumors
Wenzhou, P.R.of China Dec. 3-5, 2004

North American Spine Society Spring Break 2005 - Back into
Motion - "Is There a Role for Posterior Facet Replacement?"
Bal Harbour, Florida April 6-9, 2005

2nd Chinese International Scoliosis Symposium - "Kyphoplasty"
Beijing, China May 21-23, 2005

18th Annual International Intradiscal Therapy Society
Meeting- "Nucleus Replacement using the DASCOR Device: One-
Year Follow-Up Results of a Prospective Non-Randomized Multi-
Center Clinic"
San Diego, California May 25-28, 2005

3rd Stryker Italy Spine Symposium - "Nucleus
Replacement, Technology and Clinical Update".
Hammamet, Tunisia June 22-25, 2005

IMAST Pre-Course: Motion Sparing Technology In Spinal
Surgery - "Nucleus Replacements"
Banff, Alberta, Canada

July 6, 2005

Scientific Presentations..Continued:

2nd Annual Innovative Techniques in Spine Surgery - "Nucleus Repair and Replacements Products"
Los Cabos, Mexico July 21-23, 2005

4th Annual Emerging Technologies in Spine Surgery - "Nucleus Replacement Devices
Sept. 15-17, 2005

20th Annual Congress of NS Association of Thailand & 3rd Thai-German NS Jt. Mtg. & Spine Workshop - "Management of Degenerative Disc Disease", Artificial Total Disc Replacement vs. Nucleus Replacement", The Role for Facet Replacement, yes or no", Kyphoplasty for Osteoporotic Compression Fractures and Selective Vertebral Primary or Metastatic Tumors", "Lumbar Pedicle Screw", and "Lateral Lumbar X-lift Minimally Invasive Approach".
Bangkok Nov. 30 - Dec. 2, 2005

5th Annual Symposium on Current Concepts in Spinal Disorders, Cedars-Sinai Medical Center - "Nucleus Replacement", "Theken Lumbar Artificial Disc Replacement", and "Is Motion Preservation Beneficial in Degenerative Disc Disease".
Las Vegas, Nevada February 3 & 4, 2006

Preservation of Motion in the Spine - "Porous Coated Motion Cervical Disc", and Nucleus Replacement Implant".
Duck Key, Florida April 5-8, 2006

Spine Arthroplasty Society 6 Mtg. - "Nucleus Replacement, Trials and Tribulations".
Montreal, Canada May 12, 2006

MIS Korean Mtg. - "Total Disc Replacement vs. Nucleus Replacement for Degenerative Disc Disease", and "Dynamic Stabilization".
Korea May 20, 2006

2006 Summer Bioengineering Conference - Spinal Arthroplasty/Motion Preservation Workshop- "Nucleus Replacement, Clinical considerations in the application of disc replacement devices".

Hansen A. Yuan, M.D.

(68)

Amelia Island, Florida

June 24, 2006

Spine Across the Sea - "Clinical Results of Nucleus
Replacement with the DASCOR Disc Arthroplasty System: A
European Multi-Center Clinical Study".

Kapalua, Hawaii

July 24, 2006

Scientific Presentations..Continued:

NASS 21st Annual Meeting - Abstract - Rick Delamarter, MD, Jack Zigler, MD, Jeffrey Spivak, MD, Raymond Linovitz, MD, Guy Daneilson, MD, Thomas Haider, MD, Frank P. Cammisa, MD, James Zucherman, MD, Richard Balderston, MD, Scott Kitchel, MD, Kevin Foley, MD, Robert Watkins, MD, David Bradford, MD, James Yue, MD, Hansen Yuan, MD, Harry Herkowitz, MD, Douglas Geiger, MD: Lumbar Total Disc Replacement with the Pro-Disc-L Artificial Disc vs. Fusion: A Prospective Randomized Multi-Center Food and Drug Administration IDE Trial.
Seattle, Washington September 29, 2006

NASS 21st Annual Meeting - Abstract - Hansen Yuan, Michael Ahrens, Henry Halm, Peter Donkersloot, Ulf Liljenqvist, Anthony Tsantrizos, John Sherman, Jean Charles Lehuac: Two Year Follow Up Results of Nucleus Replacement with the Dascor Device: A Prospective European Multicenter Clinical Study.
Seattle, Washington September 30, 2006

Chinese Orthopaedic Association First International Congress "Total Nucleus Replacement", and "Motion Preservation with Degenerative Disc Disease".
Beijing, China November 12-15, 2006

Aesculap Spine Workshop - "Lumbar Nuclear Replacement, Pedicle Screw Based Motion Preservation" and "Cervical Arthroplasty".
Snowbird March 21-24, 2007

NASS Motion Stabilization Course - "Indications of Intradiscal Repair", and "Dascor".
Burr Ridge, Illinois May 18-19, 2007

MISS Congress - "Spine Surgery: History and Future"
Changsha, China June 2007

SAS7 - "An Investigational Study of Nucleus Replacement Using an Incurable Polyurethane - An In Vivo Non Human Primate Model".
Berlin, Germany May 2007

Facet Joint Repair and Emerging Facet Technologies - "Future

of Lumbar Arthroplasty". Austin, Texas October 22, 2007

North American Spine Society Symposium - Treatment of the Symptomatic Lumbar Degenerative Disc Disease: Repair, Regenerate and Rehabilitate - "Annulus Repair".
Austin, Texas October 24, 2007

Scientific Presentations...Continued:

COA - "Nucleus Replacement" - Zhengzhou, China Nov. 11, 2007

1st Asia Pacific SAS Conference - "Pre-Clinical Characterization of the DASCOR Nucleus Replacement Device", and "Motion Preservation in the Functional Spinal Unit in Degenerative Disc Disease".
Seoul, Korea January 16-18, 2008

Current Concepts in Spinal Disorders - "DASCOR" and "NUBAC".
Las Vegas, Nevada February 1-2, 2008

3rd Congress of The Indonesian Spine Society - Towards The Healthy Spine - The Past, Present and Future of Spinal Surgical Management for Degenerative Disc Disease", "Annular Repair and Regeneration", and "The Nucleus Replacement vs. Total Disc Replacement".
Jakarta, Indonesia July 16-18, 2009

Society for Minimally Invasive Spine Surgery- "Nubac Lumbar Nucleus Replacement".
Las Vegas, Nevada October 9-12, 2009

Innovative Techniques in Spine Surgery - "Where is spine surgery heading?", and "Nucleus Replacement - Design Rationale and Challenges".
Scottsdale, Arizona October 15-17, 2009

2ND MISS Summit Forum at the Aichi Spine Institute - "Advancement of Spine Surgery"
Nagoya, Japan March 12-14, 2010

Preservation of Motion in the Spine - Keynote Lecture - "Biomaterials for Disc Arthroplasty"
Duck Key, Florida April 7-10, 2010

Innovative Techniques in Spine Surgery - "Oxygenated Scaffolds for Spinal Surgery", "POD System for Percutaneous Vertebral Augmentation", and "Mechanical Devices: Design Rationale and Challenges". June 17-19, 2010

19th Annual Meeting-Japanese Spinal Instrumentation Society
"Osteotherapeutic"
Sapparo, Japan October 28-29, 2010

Exhibits:

American Roentgen Society Annual Meeting -
"Computed Tomography in Degenerative Spinal
Stenosis:" San Francisco, California. Received
Certificate of Merit. March 1981

Scoliosis Research Society Annual Meeting -
"Computed Tomography in Degenerative Spinal
Stenosis". Montreal, Canada. Sept. 1981

Roentgen Society of North American Annual
Meeting - "Computed Tomography in Degenerative
Spinal Stenosis". Chicago, Illinois. Nov. 1981

50th Annual Meeting of Orthopaedic Surgeons -
2 Audio-Visual displays - 1.) Computed Tomography in
Non-Traumatic conditions of the Spine and 2.) The Use of
CT in Thoracolumbar Fractures in Determination of Spinal
Stability. 1983

American Academy of Orthopaedic Surgeons 50th
Annual Meeting - "The Classification and
Management of Thoracolumbar Injuries - An Analysis
Based on 100 Consecutive Cases with Computed
Tomography". Anaheim, California. March 1983

IV World Congress on Pain of the International
Association for the Study of Pain; POSTER exhibit -
"Transcutaneous Electrical Nerve Stimulation
(TENS) for Post-Operative Pain Control.
Seattle, Washington. August 1984

IV World Congress on Pain of the International
Association for the Study of Pain; SLIDE exhibit -
"Liquid Crystal Thermography: A Non-Invasive
Technique to Document Treatment Results in
Patients with Low Back Syndrome."
Seattle, Washington. August 1984

Orthopaedic Research Society Annual Meeting -
POSTER exhibit. "Biomechanical Evaluation of
the Effectiveness of Anterior Spinal Fixation

Hansen A. Yuan, M.D.

(73)

Systems". San Francisco, California.

Jan.-Feb. 1987

American Academy of Orthopaedic Surgeons 44th
Annual Meeting - "Computerized Axial Tomography
of the Hip and Spine". Las Vegas, Nevada.

1987

Exhibits... Continued:

American Academy of Orthopaedic Surgeons 45th Annual Meeting - "Computed Tomography of the Spine: Sagittal and Coronal Reconstruction". San Francisco, California. 1987

International Society for the Study of the Lumbar Spine Annual Meeting-POSTER Exhibit- "Biomechanical comparison of AO Internal Fixator to the Syracuse I-Plate with and without facet screws in experimentally created thoracolumbar burst fractures". Miami, Florida. April 1988

International Society for the Study of the Lumbar Spine Annual Meeting - POSTER Exhibit- "Late Anterior Decompression for Incomplete neural deficits secondary to thoracolumbar fractures". Boston, Massachusetts. June 1990

International Society for the Study of the Lumbar Spine Annual Meeting - POSTER Exhibits- "The Contribution of the Posterior Annular Attachments in the Reduction of Experimental Lumbar Burst Fractures". "the Torn Outer Annulus- Imaging the Outer Barrier to Intervertebral Disc Herniation". Heidelberg, Germany 1991

North American Spine Society 7th Annual Meeting - POSTER EXHIBIT - " The Effect of Lumbar Distraction and Decompression in Reducing Neuroforaminal Stenosis". Boston, Massachusetts July 1992

International Society for the Study of the Lumbar Spine - POSTER EXHIBIT - "Effects of Angled Pedicle Screws on Axial Pull-Out Strength in the Calf Spine - A Biomechanical Study". Marseilles, France June 1993

Spine Across the Sea Course - POSTER EXHIBITS - "Accuracy of Magnetic Resonance Imaging for Intervertebral Disc Hydration Measurements"; "Increasing Neuroforaminal Volume by Interbody Fusion in the Reduction of Foraminal Stenosis," "The Effect of Pulsed Magnetic Fields on Posterolateral Spinal Fusion and

Device-Related Osteopenia," "A Comparative Study of the
Results of Anterior Cervical Fusion using Allograft vs.
Autograft Bone." Maui, Hawaii April 1994

Exhibits... Continued:

International Society for the Study of the Lumbar Spine -
POSTER - "Interbody Fusion with a Reabsorbable Bone
Substitute Supplemented with Autologous Growth Factors (AGF):
Evaluation in a Sheep Model", Matthew J. Allen, Vet. M.D.,
Ph.D., Joanne E. Schoonmaker, Fang Li, M.D., Nathaniel R.
Ordway, M.S., P.E., Douglas R. Arm, Ph.D. and Hansen A. Yuan,
M.D.; "Electrodiagnosis in low back pain patients with
Diabetic Polyneuropathy", Y. Tai, P. Zhu, R. Weber, B.
Fredrickson, H. Yuan, S. Haldeman.; "F Waves of peroneal and
tibial nerves provide unique information in ongoing L5 and S1
radiculopathies", Y. Zhu, R. Weber, J.Li, J.Chu, S. Haldeman,
H. Yuan, B. Fredrickson.
Cleveland, Ohio May 13-19, 2002

International Society for the Study of the Lumbar Spine -
POSTER EXHIBITS - "The Biomechanical Effects of Discectomy on
the Human Lumbar Intervertebral Disc", "Accuracy of Magnetic
Resonance Imaging on Intervertebral Disc Hydration
Measurements", "Increasing Neuroforaminal Volume by Interbody
Fusion in the Reduction of Foraminal Stenosis", "Arthroscopic
Micro-Discectomy: Influence for the Intervertebral Disc",
"The Effect of Pulsed Magnetic Fields on Posterolateral
Spinal Fusion and Device Related Osteopenia". June 1994

New Frontiers in Spinal Surgery European Spine Meeting -
"Cervical Implants: Design Rationale", "Current Technique
Utilizing Interbody Fusion Device", and VIDEO Presentation on
"Laparoscopic Interbody Fusion". May 5-6, 1995

Congress of Neurosurgery Meeting - "Two Year Follow-Up
Results of an Interbody Fusion Device: Open and Laparoscopic
Approaches". May 7-11, 1995

International Society for the Study of the Lumbar Spine
Annual Meeting - POSTER EXHIBITS - "The Differentiation of
Unilateral S1 Radiculopathy, Bilateral S1 Radiculopathy and
Peripheral Neuropathy in Patients Using Electrical and
Magnetic Stimulation of the S1 Nerve Root", "Criterion used
to Assess Spine Fractures in Osteoporosis May Bias Outcome
Findings", " The Cortical Thickness of the Vertebrae along
the Thoracolumbar Spine", "Distribution of Trabecular Bone

Density in the Human Thoracolumbar Vertebrae: A Comparison of the Trabecular Orientation Laterally", "Goodness of Fit of the Hydrogel Intervertebral Disc Nucleus and the Intervertebral Anulus of the Lumbar Spine Analyzed by FEA", "Structural Features and Thickness of the Vertebral Cortex in the Thoracolumbar Spine." Helsinki, Finland June 1995

Exhibits... Continued:

North American Spine Society Annual Meeting - POSTER EXHIBIT - "Video Assisted Thoracic Corpectomy and Spinal Reconstruction: A Biomechanical Analysis of Open vs. Endoscopic Technique". Washington, D.C. October 18-21, 1995

17th Annual Bioelectromagnetics Society - POSTER EXHIBIT - "The Effect of Pulsed Magnetic Fields on Instrumented Posterolateral Spinal Fusion and Device-Related Stress Shielding." Boston, Massachusetts

Society for the Physical Regulation in Biology and Medicine - POSTER EXHIBIT - "The Effect of Pulsed Magnetic Fields on Instrumented Posterolateral Spinal Fusion and Device-Related Stress Shielding." Crystal City, Washington, D.C.

International Society for the Study of the Lumbar Spine - POSTER EXHIBIT - "Biomechanical Evaluation of the Functional Spinal Unit with a Hydrogel Disc Nucleus." NR Ordway, YG Zheng, GL McCullen, QB Bao, ZH Han, HA Yuan, WT Edwards. Burlington, Vermont June 25-29, 1996

International Society for the Study of the Lumbar Spine - "Thickness Variation of the Vertebral Cortex Along the Thoracolumbar Spine." L.A. Fay, Y.G. Zheng, W.T. Edwards, H.A. Yuan. Burlington, Vermont June 25-29, 1996

International Society for the Study of the Lumbar Spine - "Biomechanical Assessment of Anterior Lumbar Interbody Fusion Using the BAK system: A Comparison of Anterior vs. Lateral Insertion." L.A. Fay, Y.G. Zheng, G.S. Shapiro, K.A. Mann, P.C. Connolly, H.A. Yuan. Burlington, Vermont June 25-29, 1996

Cervical Spine Research Society - European Section, X11th

Annual Meeting - "Quantitative Computed Tomography of the Cervical Spine: Assessment of the Lateral Mass and Vertebral Body Bone Mineral Densities." L.A. Fay, D.Chen, W.T. Edwards, H.A. Yuan. Nice, France June 1996

Scoliosis Research Society 31st Annual Meeting - "Video Assisted Thoracic Discetomy and Anterior Release: A Biomechanical Analysis of Open vs. Endoscopic Technique." P.J. Connolly, R. Kolata, N.R. Ordway, V. Vamvanij, E. Wall, T. Sacks, K.A. Mann, H.A. Yuan. Ottawa, Canada September 26-28, 1996

Exhibits... Continued:

Eastern Orthopaedic Association 27th Annual Meeting -
"Video Assisted Thoracic Discectomy and Anterior Release: A
Biomechanical Analysis of Open vs. Endoscopic Technique."
P.J. Connolly, R. Kolata, N.R. Ordway, V. Vamvanij, E. Wall,
T. Sacks, K.A. Mann, H.A. Yuan.
Hilton Head, S. Carolina 1996

North American Spine Society 11th Annual Meeting -
"Biomechanical Evaluation of the Functional Spinal Unit with
a Hydrogel Disc Nucleus." N.R. Ordway, Y. Zheng, G.
McCullen, Q. Bao, Z. Han, H.A. Yuan, W.T. Edwards.
VanCouver, B.C., Canada October 23-26, 1996

North American Spine Society 11th Annual Meeting -
"Video Assisted Thoracic Discectomy and Anterior Release: A
Biomechanical Analysis of Open vs. Endoscopic Technique."
P.J. Connolly, R. Kolata, N.R. Ordway, V. Vamvanij, E. Wall,
T. Sacks, K.A. Mann, H.A. Yuan.
VanCouver, B.C. Canada October 23-26, 1996

ISSLS Annual Meeting - "Effect of Cages Orientation and
Posterior Instrumentation on the Initial Stability of the
Bovine Lumbar spine following Interbody Fusion."
NR Ordway, V. Vamvanij, J. Zhao, HA Serhan, HA Yuan, K.Mann.
June 1997

8th International Conference on Lumbar Fusion and
Stabilization - "Arthroscopic BAK".
San Antonio, Texas Sept.30-Oct.4, 1997

North American Spine Society Annual Meeting - POSTER -
"Dynamic Stabilization of the Cervical Spine: A Myth or
Reality." Raman Dhawan, MD; Hansen Yuan, MD; Bruce
Fredrickson, MD; Yupeng Sun, MD; Chaiyachet Paradevisut, MD.
San Diego. California October 21-25, 2003

11TH Annual International Meeting on Advanced Spine
Techniques (IMAST) - POSTER - "Single Center European
Experience with an Injectable, In-Situ Curable Arthroplasty
System." Michael Ahrens, Zsolt Fekete, John Sherman, Hansen
Yuan, Henry Halm. Bermuda July 1-3, 2004

NASS Annual Meeting - ELECTRONIC POSTER - "Eighteen Month Follow-Up of Lumbar Spine Range of Motion Following Intervertebral Disc Replacement Using Radiostereometric Analysis". Nathaniel Ordway, MS, PE, Amir Fayyazi, MD, Bruce Fredrickson, MD, Kenneth Yonemura, MD, Hansen Yuan, MD.
Seattle, Washington September 27, 28, 29, 2006

Exhibits... Continued:

NASS Annual Meeting - ELECTRONIC POSTER - "IDE Clinical Results of the ProDisc-L: Comparison of Training Cases to Randomized Trial". Jack Zigler, MD, Rick Delamarter, MD, Jeffrey Spivak, MD, Raymond Linovitz, MD, Guy Danielson, MD, Thomas Haider, MD, Frank Cammisa, MD, James Zucherman, MD, Richard Balderston, MD, Scott Kitchel, MD, Kevin Foley, MD, Robert Watkins, MD, David Bradford, MD, James Yue, MD, Hansen Yuan, MD, Harry Herkowitz, MD, Douglas Geiger, MD.
Seattle, Washington September 27, 28, 29, 2006

NASS Annual Meeting - ELECTRONIC POSTER - "Endplate Contact Stress of the Dascor Device During Segmental Flexibility". Anthony Tsantrizos, MSc, PhD, Nathaniel Ordway, MS, PE, Chip Bao, PhD, Hansen Yuan, MD.
Seattle, Washington September 27, 28, 29, 2006

NASS Annual Meeting - ELECTRONIC POSTER - "An Investigational Study of Nucleus Pulposus Replacement Using an In-Situ Curable Polyurethane. An In Vivo Non-Human Primate Model". Bryan W. Cunningham, Hansen A. Yuan.
Austin, Texas October 23-27, 2007

NASS Annual Meeting - ELECTRONIC POSTER - "Nucleus Replacement Using an In Situ Cured, Balloon Contained, Injectable Polyurethane Device: Clinical Results from Two Prospective Multi-Center European Studies". Anthony Tsantrizos, Michael Ahrens, Hansen A. Yuan.
Austin, Texas October 23-27, 2007

Workshops & Training Sessions:

Holmium: YAG Laser for Percutaneous Discectomy Applications
Training - July 13, 1994

BAK/L Surgeon Training Course - Minnesota
January 9-10, 1997
February 7-8, 1997

BAK/L Surgeon Training Course - Connecticut
April 4, 1997

Minimally Invasive Spinal Surgery Course - 1997 AANS/CNS
Spine Section Meeting - Newport Beach, California
February 22, 1997

Spine Tech VIP Surgeon Education Course - Syracuse, NY
April 2, 1997

BAK - Spine Tech - Physicians Round Table - Cleveland, Ohio
April 4, 1997

9th Annual International Spine Workshop for Spine Surgeons -
Minimally Invasive/Endoscopy Course- Hands-On Cadaver Lab
Bethesda, Maryland
May 1998

Spine Tech BAK Course - Minneapolis, MN.
Sept. 13, 1997

Spine Tech BAK Course - New York, New York
September 20, 1997

Spine Tech BAK Interbody Fusion System for the Lumbar Spine -
Columbus, Ohio
October 1997

Spine Tech New Technology Seminar with Live Interactive
Laparoscopic Surgery Broadcast - NY, New York
October 22, 1997

Spine Tech Surgery Course on the BAK Interbody Fusion
System - Quezon City, Philippines

Hansen A. Yuan, M.D.

(82)

November 6-7, 1997

Smith & Nephew Training on Aurora Spine System -
Japan
December 9, 1997

Workshops & Training Sessions (continued):

Endoscopic Lumbar Fusion Workshop - "Results of Open BAK Fusion", and "Limitations and Complications of Open BAK Fusion".

University of Massachusetts, Worcester, MA.

March 27, 1998

Tech BAK Lumbar Interbody Fusion Systems -

Taipei, Taiwan

April 22-24, 1998

10th Annual International Spine Workshop For Spine Surgeons -
Thoraco-Lumbar Course - Hands-On Cadaver Lab

Bethesda, Maryland

June 15-19, 1998

Sulzer Spine-Tech BAK Interbody Fusion System for the
Lumbar Spine - San Diego, California

August 7, 1998

Sulzer Spine-Tech BAK Interbody Fusion Systems -

Pinehurst, North Carolina

November 6, 1998

Surgical Dynamics Ray TFC/SDRS/Disk Whisk System Surgeon
Training Workshop - Atlanta, Georgia

November 7, 1998

Surgical Dynamics - SDRS New 3-D Pedicle Screw System: Basic
Science and Surgical Technique - Shanghai, China

April 8, 1999

Surgical Dynamics - SDRS New 3-D Pedicle Screw System: Basic
Science and Surgical Technique - China General PLA

Hospital 301, Beijing, China

April 9, 1999

Surgical Dynamics - SDRS New 3-D Pedicle Screw System: Basic
Science and Surgical Technique - China General PLA

Hospital 306, Beijing, China

April 10, 1999

Sulzer Spine-Tech - Malaysian Orthopaedic Association
Meeting-Cervical Fusion with BAK/C and Posterior Lumbar
Interbody Fusion with BAK - Malaysia
April 22, 1999

Workshops & Training Sessions (Continued):

Surgical Dynamics - SDRS Design Rationale and Clinical Application - Oklahoma City, Oklahoma
May 20, 1999

Sulzer Spine Tech - Korean Surgeon Training -
Minneapolis, Minnesota
November 9, 1999

Sulzer Spine Tech - BAK/Proximity Course -
Bioscience, Design Rationale Proximity, Case Studies
Bronx, New York
November 22, 1999

Sulzer Spine Tech - BAK-L and Proximity Training -
Japan
April 4, 2000

DePuy AcroMed Tumor/Trauma Training Course -
Dallas, Texas
April 30, 2000

Oratec Interventions - IDET Course -
Phoenix, Arizona
May 20-21, 2000

Sulzer Spine Tech Workshop - "Updates on Surgical Treatment on Low Back Pain". Kuala Lumpur, Malaysia
June 5-8, 2000

Stryker Xia Workshop
Kamuela, Hawaii
July 24, 2000

Surgical Dynamics & Anspach Surgeon Training Program -
Surgical Methods and Technology Review: An Update for the Spine Surgeon - "Treatment Options for Spinal Tumors", "Indications for Posterior vs. Anterior Interbody Fusion in the Lumbar Spine", "Spine Fusion, Past, Present & Future", and "Artificial Disc Replacements: Fact or Fantasy".
Palm Beach Gardens, Florida
March 9-11, 2001

Kyphon - Inflatable Bone Tamp Uses in Cancellous Bone -
Phoenix, Arizona
March 23-24, 2001

Workshops & Training Sessions (Continued):

Oratec Interventions - IDET
New York City
May 31, 2001

Kyphon Inflatable Bone Tamp Uses in Cancellous Bone
Boston, MA.
April 26, 2002

DePuy-AcroMed Spine "Think-Tank"
Coronado Island, CA.
July 11-13, 2002

Asian Assoc. for Dynamic Osteosynthesis Vertebroplasty
Workshop
Hong Kong
October 4, 2002

Kyphon Trauma Study Group
Rye Brook, New York
June 7, 2003

Kyphon Advanced Concepts
Hershey, Pa.
July 18, 2003

DePuy AcroMed "Spine Think Tank" - The Future of Spine
Treatments, Technologies & Techniques
LaJolla, CA.
July 24-26, 2003

Styker Spine - SR90D Panel Meeting
Maui, Hawaii
July 29, 2003

Smith Nephew - IDET
Bangkok, Thailand
October 13, 2003

Smith Nephew - IDET & Disc Decompression
Singapore
October 16, 2003

Kyphon - Advanced Concepts in Minimally Invasive Vertebral
Compression Fracture Management
New York, New York
February 13, 2004

Workshops & Training Sessions (Continued):

Kyphon - Advanced Concepts in Minimally Invasive Vertebral
Compression Fracture Management
Asheville, North Carolina
February 21, 2004

Stryker SR90D Panel Meeting
New York, New York
February 27, 2004

Smith-Nephew - IDET - The only minimally invasive treatment
for early degenerative disc disease - "Patient Selection -
young athlete".
Spine Week
Porto, Portuguese
June 3, 2004

Stryker - Award Winning Fixation System - 90D Biomechanical
Review and Clinical Applications
Spine Week
Porto, Portuguese
June 4, 2004

Kyphon - Inflatable Bone Tamp Uses In Cancellous Bone
Syracuse, New York
November 20, 2004

Kyphon - -Inflatable Bone Tamp Uses in Cancellous Bone

Montreal, Canada
February 5, 2005

Charite Artificial Disc Training - Cincinnati, Ohio
February 23-24, 2005

Applied Spine - Cadaver Lab & Training - Stabilimax
Baltimore, Maryland
March 19, 2006

Cervitech - PCM Artificial Cervical Disc Workshop -
Korea
May 2-3, 2006

Applied Spine Investigator Training -
Baltimore
June 3-4, 2006

Applied Spine Investigator Training -
Baltimore
June 10, 2006

Workshops & Training Sessions (Continued):

Applied Spine Surgeon Training Lab -
Dallas, Texas
September 17, 2006

ProDisc-L Surgeon Training
Philadelphia, PA.
Jan. 14-15, 2007

ProDisc-L Forum
Denver, Colorado
March 18-19, 2007

ProDisc-L Forum
Philadelphia, PA.
April 22-23, 2007

Spondylo, anterior approach
Xuanwu Hospital Workshop
March 30, 2009

Abstracts:

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Leon L. Wiltse, MD". The Spine Journal, Vol.6, No.2, p.211, March/April 2006.

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Michael Ahrens, M.D.; Anthony Tsantrizos, MSc, PhD; Peter Donkersloot, M.D.; Frederic Martens, M.D.; Philippe Lauweryns, M.D., hD.; Jean Charles LeHuec, M.D., PhD.; Slawomir Moszko, M.D.; Zsolt Fekete, M.D.; John Sherman, M.D.; Hansen A. Yuan, M.D.; Henry Halm, M.D. "Nucleus Replacement With the DASCOR Disc Arthroplasty Device". SPIINE, Volume 34, Number 13, pp. 1376-1384. 2009

Hansen A. Yuan, Adam K. MacMillan, and Edward S. Ahn "Techniques for Use in Indirect Distraction Procedures". Minimally Invasive Spine Surgery: A Practical Guide to Anatomy and Techniques, Chapter 20, p. 167-177, 2009

Thomas J. Raley, Qi-Bin Bao, and Hansen A. Yuan "Nucleus Augmentation". The Lumbar Intervertebral Disc, Chapter 22, p. 185-190, 2010

Co-ordinator of the Back Rehabilitation Program organized at St. Camillus Rehabilitation Center, Syracuse, New York. The program is staffed by a full time Clinical Psychologist and a Biofeedback Technician along with a Physical Therapist, Occupational Therapist, and Vocational Counselor. The program is designed for both in-patients and out-patients. However, a maximum of eight in-patients and two out-patients are permitted at any one time. 1977-1983.

Research Interests:

Degenerative Disc Disease

Degenerative Scoliosis

Artificial Nucleus for Spinal Disc Replacement

Tissue engineering and genetic engineering for tissue healing

Development of Scoliosis and Degenerative Spine Fixator

Development of Percutaneous Spine Fixator for Spine Fusion

Bone Morphogenic Protein

Bone Healing, Osteoblast Stimulation

Hydroxyapatite for Bone Substitute

<u>Courses Attended:</u>	<u>Credit Hours</u>
LUMBAR CHEMONUCLEOLYSIS COURSE - December 9, 1974 American Academy of Orthopaedic Surgeons - New York	7
AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS - Annual Meeting - March 1-6, 1975 San Francisco, California	40
THE SPINE - INJURY AND DISEASE STATES - October 30 - November 1, 1975. Duke University Medical Center Durham, N. Carolina	
AMERICAN ACADEMY of ORTHOPAEDIC SURGEONS - Annual Meeting - January 28 - February 4, 1976 New Orleans, Louisiana	40
BACK PAIN - THORACO-LUMBAR SPINE DISEASE and INJURY STATES - October 8-9, 1976 Upstate Medical Center, Syracuse, New York	11
29th ANNUAL CONFERENCE for ENGINEERING in MEDICINE and BIOLOGY - November 8 -10, 1976 Boston, Massachussets	24
AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS - Annual Meeting - February 3 - 8, 1977 Las Vegas, Nevada	40
SPORTS MEDICINE: ATHLETIC INJURIES ABOUT THE KNEE - May 6, 1977	7
EASTERN ORTHOPAEDIC ASSOCIATION - Annual Meeting Acapulco, Mexico	21
ASSOCIATION for ACADEMIC SURGERY Annual Meeting - November 13 - 15, 1978 Cleveland, Ohio	
HAND SYMPOSIUM - June 3, 1977 Upstate Medical Center, Syracuse, New York	9

Courses Attended..Continued:Credit Hours

TAX, RETIREMENT, and ESTATE PLANNING and FINANCIAL INVESTMENTS - July 17 - 22, 1977 - Medical College of Georgia - Jekyll Island, Georgia	20
AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS , Annual Meeting - Dallas, Texas	40
2ND ANNUAL TRI-CITY ORTHOPEDIC MEETING - April 7 - 8, 1978 - Upstate Medical Center, Syracuse, New York	10
EASTERN ORTHOPAEDIC ASSOCIATION - Annual Meeting Acapulco, Mexico	21
ASSOCIATION for ACADEMIC SURGERY - Annual Meeting November 13 - 15, 1978 - Cleveland, Ohio	
IF I HAD...BACKACHE, A PHYSICIAN'S DILEMNA - Feb. 8, 1979, Rochester Academy of Medicine Auditorium, Rochester, New York	6
AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS - Annual Meeting - Feb. 20 - 27, 1979 San Francisco, California	40
BACK PAIN: DIAGNOSIS and a HOLISTIC APPROACH to MANAGEMENT - March 18 - 25, 1970 - sponsored by SUNY Upstate Medical Center, Syracuse, New York and presented in Kiawah Island, South Carolina.	20
SPINAL CORD MONITORING: Fundamentals and Clinical Application, Case Western Reserve University, School of Medicine, Cleveland, Ohio. May 21 -22, 1979	13
EASTERN ORTHOPEDIC ASSOCIATION - Annual Meeting - October 17 - 21, 1979 - Palm Beach, Florida.	21

Courses Attended...Continued:Credit Hours

Hansen A. Yuan, M.D.

(124)

THE TECHNIQUE of EXTERNAL FIXATION - November 1979 Upstate Medical Center, Syracuse, New York	6
EASTERN ORTHOPAEDIC ASSOCIATION - Annual Meeting - October 15 -22, 1980 - Dorado Beach, Puerto Rico	21
AMERICAN ACADEMY of ORTHOPAEDIC SURGEONS - Annual Meeting -February 26 - March 4,1981 Las Vegas, Nevada	40
LOW BACK DISEASE - May 13 - 14, 1981 - University of Vermont College of Medicine, Burlington, Vermont	10
11TH ANNUAL POSTGRADUATE OBSTETRICS/GYNECOLOGY TEACHING DAY , May 26, 1981 - Syracuse, New York	5
SCIENTIFIC BASIS for the USE of FLEXION in the TREATMENT of LUMBAR DISORDERS - December 1979; sponsored by CAMP International, Rochester, New York	
EASTERN ORTHOPAEDIC ASSOCIATION - October 14-18,1981 Syracuse, New York	15
MECHANICAL THERAPY OF THE LUMBAR SPINE , Robin McKenzie Annual Meeting - October 26 - 29, 1981 Boca Raton, Florida	21
AMERICAN ACADEMY of ORTHOPAEDIC SURGEONS - Annual Meeting January 21 - 26, 1982 - New Orleans, Louisiana	35
NEW YORK STATE SOCIETY OF ORTHOPAEDIC SURGEONS, INS. Annual Meeting - April 21 - 25, 1982 Cancun, Mexico	7
2ND ANNUAL ALUMNI DAY , Department of Orthopaedic Surgery, Upstate Medical Center - May 14, 1982 Syracuse, New York	7

Courses Attended...Continued:

Credit Hours

THE INDUSTRIAL BACK INJURY - A STRAIN ON SOCIETY - May 20, 1982 - sponsored by International Rehabilitation Associates, Syracuse, New York	
LOW BACK DISEASE - May 13 - 14, 1982	10
EASTERN ORTHOPAEDIC ASSOCIATION - Annual Meeting October 13 - 17, 1982 - Southampton, Bermuda	21
EASTERN ORTHOPAEDIC ASSOCIATION - EXTERNAL FIXATION COURSE, October 11 - 12, 1982 - Southampton, Bermuda	10
THERMOGRAPHY INTRAMUSCULAR DISORDERS - October 9 - 10, 1982 - presented by American Thermography Society, Glencove, New York	16
AMERICAN ACADEMY of ORTHOPAEDIC SURGEONS - Annual Meeting - March 10 - 15, 1983 Anaheim, California	35
INTERNATIONAL SOCIETY for the STUDY of the LUMBAR SPINE - April 5 - 9, 1983 - Cambridge, England	
YOUNG SURGEON REPRESENTATIVES MEETING - March 27 - 28, 1983, Chicago, Illinois	
NEW YORK STATE SOCIETY of ORTHOPAEDIC SURGEONS - Annual Meeting - May 19 - 21, 1983 Toronto, Canada	10
3RD ANNUAL ALUMNI DAY - Orthopedic Surgery Department April, 1983, SUNY Upstate Medical Center	7
FIRST NATIONAL CONFERENCE BACK PAIN: Cutting the Cost to Employers - September 19 - 20, 1983 Chicago, Illinois	17
EASTERN ORTHOPAEDIC ASSOCIATION - Annual Meeting - October 12 - 16, 1983 - Palm Beach, Florida	21
INTERNATIONAL VIDEO TELE SESSION and MOTOR SKILLS LAB on KNEE ARTHROSCOPY - October 21, 1983	

AMERICAN ACADEMY of ORTHOPAEDIC SURGEONS - Annual Meeting February 9 - 14, 1984	35
NEW YORK STATE SOCIETY of ORTHOPAEDIC SURGEON - May 9 - 13, 1984 - Innisbrook, Tarpon Springs, Florida	8.5
4TH ANNUAL ALUMNI DAY - April 27, 1984 - SUNY, Upstate Medical Center, Syracuse, New York	6
INTERNATIONAL SOCIETY of the LUMBAR SPINE - June 3 - 7, 1984 - Montreal, Canada	
AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS - Annual Meeting - February 1985 - New Orleans	36
ANNUAL ALUMNI DAY - SUNY Upstate Medical Center, Orthopaedic Surgery Department May 31, 1985 - Syracuse, New York	7
INTERNATIONAL SYMPOSIUM ON ALTERNATIVES IN SPINAL SURGERY - June 1985 - Paris France	12
NORTH AMERICAN LUMBAR SPINE ASSOCIATION MEETING - July 1985 - Laguna Beach	
AO SPINE STUDY GROUP - August 17, 1985 Toronto, Canada	
AO/ASIF SPINE COURSE - December 8 - 13, 1985 Davos, Switzerland	35
EASTERN ORTHOPAEDIC ASSOCIATION ANNUAL MEETING - October 16 - 20, 1985 - Boca Raton, Florida	2

Hansen A. Yuan, M.D.

(127)

Courses Attended..Continued:

NORTH AMERICAN SPINE STUDY GROUP - March 8, 1986 - Kansas City, Kansas	13.5
6TH ANNUAL ALUMNI DAY - June 14, 1986 - SUNY Health Science Center, Syracuse, New York	6
NORTH AMERICAN SPINE SOCIETY - July 20 - 23, 1986 - Bolton Landing, New York	13.5
AO - Spine Course - August 17, 1986 Chicago, Illinois	
ADVANCED TECHNOLOGIES IN PRIMARY & REVISION TOTAL HIP REPLACEMENT - November 22, 1986 New York, New York	8
AO Spine Course - August 17, 1986 Chicago, Illinois	6
AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS - Annual Meeting - January 22 - 27, 1987	3
AO Spine Course - March 7, 1987 Kansas City, Kansas	
AMERICAN SPINAL INJURY ASSOCIATION - March 20 - 21, 1987 Boston, Massachusetts	20.5
INTERPEDUNCULAR LUQUE SEGMENTAL INTERNAL FIXATION COURSE - May 3, 1987	
AMERICAN ORTHOPAEDIC ASSOCIATION and 8TH COMBINED MEETING of the ORTHOPAEDIC ASSOCIATION of the ENGLISH - SPEAKING WORLD - May 3 - 8, 1987	
ANNUAL ALUMNI DAY - May 8, 1987 SUNY Health Science Center, Syracuse, New York	6
INTERNATIONAL SOCIETY for the STUDY of the LUMBAR SPINE - May 24, 1987 - Rome, Italy	

Courses Attended...Continued:

NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING June 25 - 28, 1987 - Banff, AP, Canada	12
NORTH AMERICAN SPINE - July 17, 1987 Paoli, Pennsylvania	
SCOLIOSIS RESEARCH SOCIETY ANNUAL MEETING September 15 - 19, 1987 - Vancouver, BC, Canada	21.5
CHALLENGE of LUMBAR SPINE - October 7 - 10, 1987 New York, New York	20.4
AO-ASIF COURSE - October 18 - 23, 1987 Clearwater, Florida	25
BOSTON UNIVERSITY SCHOOL of MEDICINE, MANAGEMENT SKILLS for ORTHOPAEDIC CHAIRMEN December 2 - 5, 1987 - Boston, Massachusetts	12
AO SPINE COURSE - December 14 - 19, 1987 Switzerland	
AMERICAN ACADEMY of ORTHOPAEDIC SURGEONS ANNUAL MEETING - February 1988 - Atlanta, Georgia	
WESTERN TRAUMA ASSOCIATION - February 27 - March 5, 1988 Steamboat Springs, Colorado	20
INTERNATIONAL SOCIETY for the STUDY of the LUMBAR SPINE - April 13 - 16, 1988 - Miami, Florida	20
ANNUAL ALUMNI DAY - May 1988 - SUNY Health Science Center, Syracuse, New York	5
NORTH AMERICAN SPINE SOCIETY - July 25 - 27, 1988 Colorado Springs, Colorado	
SPINE REVIEW COURSE - September 19 - 20, 1988 Cooperstown, New York	13

Courses Attended...Continued:**SCOLIOSIS RESEARCH SOCIETY ANNUAL MEETING**

September 20 - October 2, 1988
Baltimore, Maryland

THE CHALLENGE OF THE LUMBAR SPINE

November 9-13, 1988 - San Antonio, Texas 31

AO/ASIF SPINE COURSE - December 4 - 9, 1988 31

AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS ANNUAL MEETING - February 9 - 14, 1989

Las Vegas, Nevada 32.5

FEDERATION OF SPINE ASSOCIATION - NORTH AMERICAN SPINE SOCIETY - Discussor - February 12, 1989

Las Vegas, Nevada 8

INTERNATIONAL SOCIETY for the STUDY of the LUMBAR SPINE ANNUAL MEETING - May 15 - 19, 1989

Kyoto, Japan

AO TECHNIQUES OF PEDICLE SCREW FIXATION - TABLE INSTRUCTOR - June 2, 1989 - Toronto, Canada**BASIC COURSE ON THE OPERATIVE TREATMENT OF FEMUR FRACTURES** - June 3, 1989 - Syracuse, New York 8**AMERICAN ORTHOPAEDIC ASSOCIATION** - June 11 - 15, 1989
Colorado Springs, Colorado

ANNUAL ALUMNI DAY - June 16, 1989 - Syracuse, New York 5

NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING

June 29 - July 2, 1989 - Quebec, Canada 12.5

SYMPOSIUM on LUMBAR INTERNAL FUSION WITH INTERNAL FIXATION - July 3, 1989 - Quebec, Canada 7**SCOLIOSIS RESEARCH SOCIETY ANNUAL MEETING**

September 17 - 21, 1989 - Amsterdam 27.5

AO\ASIF SPINE COURSE - October 15 - 20, 1989 Vail, Colorado	33
<u>Courses Attended...Continued:</u>	
AMERICAN ACADEMY OF ORTHOPAEDIC CHAIRMAN	
October 27 - 29, 1989 - Washington, D.C.	
CHALLENGE of LUMBAR SPINE - November 2 - 5, 1989	
AMERICAN ACADEMY of ORTHOPAEDIC SURGERY	
ANNUAL MEETING - February 1990	
New Orleans, Louisiana	
KEYSTONE SPINE MEETING - March 7 - 11, 1990 Keystone, Colorado	20
CHALLENGE of CERVICAL SPINE - THE NEW CHALLENGE" April 25 - 29, 1990 - San Antonio, Texas	23
10TH ANNUAL ORTHOPAEDIC ALUMNI MEETING - Dept. of Orthopaedic Surgery SUNY Health Science Center at Syracuse - May 25, 1990 - Syracuse, New York	5
ORTHOPAEDIC RESEARCH SOCIETY ANNUAL MEETING - March 4 - 7, 1991 - Anaheim, California	26
AMERICAN ACADEMY of ORTHOPAEDIC SURGERY ANNUAL MEETING - March 7 - 12, 1991 - Anaheim, California	34.5
FEDERATION OF SPINE ASSOCIATION FOSA SPECIALTY DAY - March 10, 1991 - Anaheim, California	8
INTERNATIONAL SOCIETY FOR THE STUDY OF THE LUMBAR SPINE ANNUAL MEETING - March 11 - 19, 1991 - Heidelberg, Germany	
AMERICAN ORTHOPAEDIC ASSOCIATION ANNUAL MEETING - June 9 - 13, 1991 - Palm Beach, Florida	19
ANNUAL ORTHOPAEDIC ALUMNI DAY - Department of Orthopaedic Surgery SUNY Health Science Center, Syracuse, NY June 14, 1991	

Hansen A. Yuan, M.D. (131)

NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING -
July 31 - August 3, 1991 - Keystone, Colorado 15

Courses Attended...Continued:

AMERICAN ACADEMY of ORTHOPAEDIC SURGERY ANNUAL MEETING -
February 20 - 25, 1992 - Washington, D.C. 30.5

PEDICLE FIXATION OF THE LUMBAR SPINE - Presented by
University of Illinois College of Medicine's Department
and Orthopaedics -
April 30 - May 2, 1992 - Phoenix, Arizona 18

INTERNATIONAL SOCIETY FOR THE STUDY OF THE LUMBAR SPINE -
May 20 - 24, 1992 - Chicago, Illinois

MOSS SPINE STUDY GROUP - June 11 - 13, 1992

AMERICAN ORTHOPAEDIC ASSOCIATION ANNUAL MEETING -
June 22 - 26, 1992 - Toronto, Canada

9TH COMBINED MEETING OF THE ORTHOPAEDIC ASSOCIATION OF THE
ENGLISH SPEAKING WORLD - June 21 - 26, 1992

NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING -
July 9 - 11, 1992 - Boston, Massachusetts 21

INTERNAL REDUCTION AND FIXATION OF THE LUMBAR SPINE COURSE -
FACULTY MEMBER - July 1992 - Tulane University School of
Medicine

INTERNATIONAL SOCIETY FOR THE STUDY OF THE LUMBAR SPINE -
August 6 - 9, 1992 - San Francisco, Ca.

15TH SINGAPORE ORTHOPAEDIC ASSOCIATION ANNUAL MEETING -
November 12 - 15, 1992 - Singapore

AO SPINE COURSE - CHAIRMAN - September 3 - 6, 1992
Taichung, Taiwan

SCOLIOSIS RESEARCH SOCIETY ANNUAL MEETING - DISCUSSOR -
September 23 - 26, 1992 - Kansas City, Missouri 15

CURRENT METHODOLOGY OF SPINAL INSTRUMENTATION; DEGENERATIVE AND DEFORMITY APPLICATIONS COURSE -

October 2 - 3, 1992, New York, New York 13

Courses Attended...Continued:

CONTROVERSIES IN THE DIAGNOSIS AND TREATMENT OF LUMBAR INSTABILITY -

October 17 - 18, 1992

Lake George, New York

THE 17TH ANNUAL NEW JERSEY ORTHOPAEDIC SYMPOSIUM -

October 23 - 24, 1992 6

SINGAPORE ORTHOPAEDIC ASSOCIATION SILVER JUBILEE MEETING -

November 12 - 15, 1992 - Singapore

TECHNIQUES IN SPINAL INSTRUMENTATION -

December 11 - 12, 1992 - New York, New York

DISORDERS OF THE SPINE - THE SPINE CENTER/FLORIDA ORTHOPAEDIC INSTITUTE UNIVERSITY OF SOUTH FLORIDA -

January 10 - 15, 1993

Cliff Lodge, Snowbird, Utah 25

AMERICAN MEDICAL ELECTRONICS NATIONAL SALES MEETING -

January 23 - 27, 1993 - Cliff Lodge, Snowbird, Utah

RF SYSTEM WORKSHOP -

February 6, 1993 - Kansas City, Missouri

DISORDERS OF THE SPINE AND PERIPHERAL NERVE ANNUAL MEETING -

February 19, 1993 - Tucson, Arizona 20

AMERICAN ACADEMY of ORTHOPAEDIC SURGERY ANNUAL MEETING -

February 17 - 23, 1993 - San Francisco, California 30.5

FEDERATION OF SPINE ASSOCIATION -

February 21, 1993
San Francisco, California

DIAGNOSIS AND TREATMENT OF DISEASES OF THE CERVICAL SPINE -

April 23 - 24, 1993 - Houston, Texas 14

SICOT INTERNATIONAL SYMPOSIUM ON SPINE SURGERY -

April 27, 1993 - Seoul, Korea

Courses Attended...Continued:

PEDICLE FIXATION of the LUMBAR SPINE and OTHER ADVANCED TECHNIQUES - May 13 - 15, 1993 - Orlando, Florida	18
AMERICAN ORTHOPAEDIC ASSOCIATION ANNUAL MEETING - June 6 - 10, 1993 - California	17
INTERNATIONAL SOCIETY for the STUDY of the LUMBAR SPINE ANNUAL MEETING - June 15 - 19, 1993 - Marseilles, France	
SPINAL COURSE - June 25 - 26, 1993 - Amelia Island, Florida	16
SPINE WORKSHOP - June 27 - July 2, 1993 - Bethesda, Maryland	
SPINAL INSTRUMENTATION COURSE - August 1 - 5, 1993 Orlando, Florida	
SICOT MEETING - September 1 - 3, 1993 - Korea	
NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING - October 13 - 16, 1993 - San Diego, California	17
ORTHOPAEDIC ASSOCIATION OF REPUBLIC OF CHINA - October 21 - 23, 1993 - Taipei, Taiwan	
ARTHROSCOPIC MICRODISCECTOMY of the LUMBAR SPINE MINIMAL INTERVENTION IN SPINAL SURGERY - November 5-7, 1993	15
SSAF STATE of the SPINE from A to Z - November 12-15, 1993 Puerto Rico	5
ISLLS INSTRUCTIONAL COURSE - November 19-20, 1993 Buenos Aires, Argentina	
SECOND ANNUAL SYMPOSIUM and CALL for PAPERS: TECHNIQUES of SPINAL INSTRUMENTATION - December 1, 1993 New York, New York	

DISORDERS OF THE SPINE, 6TH ANNUAL SKI SNOWBIRD WITH THE SPINE CENTER - January 9-14, 1994
Snowbird, Utah 30

Courses Attended...Continued:

CONTROVERSY and CHANGING TRENDS in SPINE CARE -
January 26, 1994 Chicago, Illinois

JOINT SECTION on DISORDERS of the SPINE and PERIPHERAL NERVES
February 9, 1994 Fort Lauderdale Florida

AMERICAN ACADEMY of ORTHOPAEDIC SURGERY ANNUAL MEETING -
February 23 - 28, 1994 New Orleans, Louisiana 30.50

CURRENT CONCEPTS in MANAGEMENT of SPINAL TRAUMA -
March 25 - 26, 1994 Houston, Texas 10

SPINE ACROSS THE SEA - April 18 - 21, 1994 9

EUROPEAN SPINE MEETING - May 5 - 7, 1994
Leiden, Holland

THIRD CONFERENCE ON CONTROVERSIES IN THE TREATMENT OF LUMBAR SPINE DISEASE - June 3-5, 1994
Bolton Landing, New York 26

6TH ANNUAL SPINE WORKSHOP - June 13-14, 1994
Bethesda, Maryland

ANNUAL ORTHOPAEDIC ALUMNI DAY - Dept. of Ortho.Surgery, SUNY
HealthScienceCenter, Syracuse, NY June 17, 1994 6

INTERNATIONAL SOCIETY for the STUDY of the LUMBAR SPINE ANNUAL MEETING - June 21 - 25, 1994
Seattle, Washington

FOURTH COMMON MEETING - CERVICAL SPINE RESEARCH SOCIETY
June 29 - July 2, 1994 Rome, Italy

AMERICAN-EUROPEAN MEETING on PEDICLE FIXATION of the SPINE

Hansen A. Yuan, M.D.

(135)

and OTHER ADVANCED TECHNIQUEES - July 1-2, 1994
Munich, Germany

13.5

SPINE CHALLENGE MEETING, July 7 - 9, 1994
Toronto, Ontario, Canada

Courses Attended...Continued:

ANTERIOR SURGICAL APPROACHES TO THE SPINE - July 30-31, 1994 Memphis, Tennessee	14.5
PRACTICAL TECHNIQUES and SPINAL INSTRUMENTATION - August 28 - September 1, 1994 Orlando, Florida	24
EUROPEAN SPINE SOCIETY - September 7-10, 1994 Madrid	
AMERICAN ACADEMY of ORTHOPAEDIC SURGEONS BOARD OF COUNCILORS and COMSS MEETING , September 22 - 25, 1994 Newport, Rhode Island	
NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING - October 19 - 21, 1994 Minneapolis, Minnesota	20
AME SPINE SYMOSIUM - October 28, 1994 Boston, Massachusetts	
STATE of the SPINE A TO Z COURSE - November 3 - 6, 1994 Cerromar Beach Resort, Puerto Rico	16
6TH ANNUAL BARROW NEUROLOGICAL INSTITUTE SPINE WORKSHOP - Phoenix, Arizona	12
SAN DIEGO SPINE SYMPOSIUM & WORKSHOP - November 18 - 20, 1994 San Diego, California	
KOREAN SPINE MEETING - Seoul, Korea November 25 - 16, 1994	
THAI ORTHOPAEDIC ASSOCIATION - Bangkok, Thailand November 30 - December 4, 1994	
8TH INTERNATIONAL CONFERENCE ON BIOMEDICAL ENGINEERING; INSTRUCTIONAL COURSE - December 7 - 11, 1994	
7TH ANNUAL SKI WITH THE SPINE CENTER - Whistler, British Columbia - January 7 - 13, 1995	33

Courses Attended...Continued:

JOINT SECTION on DISORDER of the SPINE and PERIPHERAL NERVES Phoenix, Arizona - February 14-18, 1995	20
AMERICAN ACADEMY of ORTHOPAEDIC SURGERY ANNUAL MEETING - Orlando, Florida - February 16-21, 1995	30.50
AAOS/AANS SYMPOSIUM on SPINAL TRAUMA - Orlando, Florida - February 20, 1995	
FUTURE CHALLENGES to SPINE SURGERY - Tampa, Florida March 10, 1995	
ANTERIOR APPROACHES to the SPINE - Memphis, Tennessee - April 1-2, 1995	16
JAPANESE ORTHOPAEDIC ASSOCIATION MEETING - Yokohama, Japan April 9-11, 1995	
AANS SPINE TRAUMA SYMPOSIUM - Orlando, Florida April 25-26, 1995	26.75
ST. LUKE'S EPISCOPAL HOSPITAL SYMPOSIUM - Houston, Texas - April 28-29, 1995	
NEW FRONTIERS IN SPINAL SURGERY EUROPEAN SPINE MEETING - Holland - May 4-6, 1995	
CONGRESS OF NEUROSURGERY - Berlin - May 7-11, 1995	
CONTROVERSIES IN THE TREATMENT OF LUMBAR SPINE DISEASE - Kiawah Island, South Carolina - May 12-14, 1995	
CAROLINAS MEDICAL CENTER SPRING SYMPOSIUM - Charlotte, North Carolina - May 17-19, 1995	
CURRENT CONCEPTS on SURGERY of the SPINE - Galveston, Texas - May 24-27, 1995	32
THORACOSCOPIC APPROACHES for the TREATMENT of THORACIC SPINAL PATHOLOGY - Phoenix, Arizona - June 1-3, 1995	25.5

Courses Attended...Continued:

- MINIMALLY INVASIVE DISCECTOMY/ENDOSCOPY COURSE -**
Bethesda, Maryland - June 15-17, 1995
- INTERNATIONAL SOCIETY FOR THE STUDY OF THE LUMBAR SPINE
ANNUAL MEETING -** Helsinki, Finland - June 18-22, 1995
- SMITH & NEPHEW RICHARDS ANNUAL WINTER MEETING -**
Great Barrier Reef, Queensland - July 8-15, 1995 29
- VIDEO ASSISTED DISKECTOMY AND ANTERIOR RELEASE OF THE THOACIC
SPINE IN SCOLIOSIS SURGERY -** Cincinnati, Ohio
July 19-21, 1995
- PATHOPHYSIOLOGY and TREATMENT of the UNSTABLE LUMBAR MOTION
SEGMENT (NASS Summer CME Conference) -** Chicago, Illinois
August 3-5, 1995 12.25
- 95' QINGDAO INTERNATIONAL CONGRESS on ORTHOPAEDICS -**
Qingdao, China October 8-10, 1995
- NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING -**
Washington - D.C. October 18-21, 1995 18
- MEXICAN ORTHOPAEDIC ASSOCIATION -** Tijuana, Baja California
October 27-November 1, 1995
- NEW HORIZONS IN LOW BACK PAIN -** San Diego, California
November 1-4, 1995
- AAOS SPINE SURGICAL SKILLS COURSE "CONTEMPORARY ISSUES IN
ADVANCED SPINE SURGERY" -** Chicago, Illinois
November 17-19, 1995 21
- EIGHTH ANNUAL SKI WITH THE SPINE CENTER - A CONTEMPORARY
UPDATE ON DISORDERS OF THE SPINE -**
Whistler, British Columbia, Canada
January 14-19, 1996 30

Courses Attended...Continued:

AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS ANNUAL MEETING - Atlanta, Georgia	February 22-26, 1996	28.50
FEDERATION OF SPOINE ASSOCIATES -	Atlanta, Georgia	
	February 25, 1996	
JOINT SECTION ON DISORDERS OF THE SPINE AND PERIPHERAL NERVES OF THE AANS/CNS -	Orlando, Florida	
	Feb.28-March 2, 1996	24.50
INTENSIVE COURSE ON MINIMAL INVASIVE ANTERIOR LUMBAR INTERBODY FUSION -	Berlin, Germany	
	March 14-15, 1996	
CONTEMPORARY SURGERY OF THE LUMBAR SPINE-MINIMALLY INVASIVE TECHNIQUES -	Orlando, Florida	
	March 24-28, 1996	24
CURRENT TOPICS IN THE TREATMENT OF SPINAL DISORDERS -	Jacksonville, Florida	
	March 28-30, 1996	16
NEW FRONTIERS IN SPINAL SURGERY -	Leiden, Amsterdam	
	April 18-29, 1996	
AAOS COURSE - DEBATING COMPLEX ISSUES IN SPINE SURGERY -	Washington, D.C.	
	April 24-27, 1996	27
INTERNATIONAL INTRADISCAL THERAPY SOCIETY MEETING -	Amsterdam, Netherlands	
	May 8-12, 1996	4
TORONTO ENDOSCOPIC SPINAL SURGERY SYMPOSIUM & WORKSHOP -	Toronto, Ontario, Canada	
	May 17-18, 1996	15
SCOLIOSIS RESEARCH SOCIETY THORASCOPIC/LAPAROSCOPIC COURSE -	Cincinnati, Ohio	
	June 12-13, 1996	
8TH ANNUAL INTERNATIONAL SPINE WORKSHOP - THORCOLUMBAR COURSE -	Bethesda, Maryland	
	June 17-21, 1996	

Courses Attended...Continued:

INTERNATIONAL SOCIETY FOR THE STUDY OF THE LUMBAR SPINE - Burlington, Vermont	June 25 - 29, 1996		
8th INTERNATIONAL OPERATIVE COURSE IN SPINAL SURGERY - Jakarta, Indonesia	June 30 - July 3, 1996		
ANTERIOR SURGICAL APPROACHES TO THE SPINE - Memphis, Tennessee	August 3-4, 1996	14.75	
CONTEMPORARY SURGERY OF THE THORACIC & LUMBAR SPINE - MINIMALLY INVASIVE TECHNIQUES - Orlando, Florida	Sept. 8-12, 1996	24	
SCOLIOSIS RESEARCH SOCIETY ANNUAL MEETING - Ottawa Ontario Canada	Sept. 26-28, 1996	15.50	
AMERICAN COLLEGE OF OSTEOPATHIC SURGEONS MEETING - San Diego, California	October 17-19, 1996	8	
NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING - VanCouver, B.C., Canada	October 23-26, 1996		
NEW HORIZONS IN SPINAL SURGERY - Philadelphia, Pennsylvania	November 1-2, 1996	15	
ANTERIOR COLUMN SUPPORT: IMPLICATIONS IN CERVICAL & THORACOLUMBAR SPINE SURGERY -	Paradise Island, Bahamas	November 7-9, 1996	16
SOCIETY OF MILITARY ORTHOPEDIC SURGEONS - San Diego, California	November 19-23, 1996	10	
'96 SHANGHAI INTERNATIONAL SYMPOSIUM ON SPINE & INSTRUCTIVE COURSE ON ORTHOPEDICS - CO-CHAIR	Shanghai, China	November 26-29, 1996	

Courses Attended...Continued:

CERVICAL SPINE RESEARCH SOCIETY ANNUAL MEETING - The Breakers, Palm Beach, Florida	December 5-7, 1996	14
CERVICAL SPINE RESEARCH SOCIETY 5TH INSTRUCTIONAL COURSE - Palm Beach, Florida	December 7-9, 1996	16
FUTURE CHALLENGES TO SPINE SURGERY - Palm Springs, California	January 3, 1997	
INTERBODY FUSION WORKSHOP - Philadelphia, Pennsylvania January 29, 1997		
AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS ANNUAL MEETING - San Francisco, California	February 13-16, 1997	29.50
MINIMALLY INVASIVE SPINAL SURGERY COURSE - 1997 AANS/CNS SPINE SECTION MEETING - Newport Beach, California	February 19-22, 1997	18
AAOS COMPREHENSIVE SPINE COURSE - DEBATING COMPLEX ISSUES IN SPINE SURGERY - Tucson, Arizona	March 12-15, 1997	22
NASS SPINE ACROSS THE SEA - Kamuela, Hawaii March 16-20, 1997		17.5
AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS ANNUAL MEETING - New Orleans, LA.	March 19-23, 1997	26.5
SCIENTIFIC CONGRESS OF THE CHINESE SPEAKING ORTHOPAEDIC SOCIETY - Shanghai, China	March 27-30, 1997	
MINIMALLY INVASIVE/ENDOSCOPY COURSE - Bethesda, Maryland May 14-16, 1997		15
10TH ANNUAL INTRADISCAL THERAPY SOCIETY MEETING - Naples, Florida	May 29-31, 1997	12
AMERICAN ORTHOPAEDIC ASSOCIATION 10TH ANNUAL MEETING - Boca Raton, Florida	June 11-14, 1997	16

Courses Attended...Continued:

CERVICAL SPINE RESEARCH SOCIETY - Burgenstock, Switzerland
June 26-28, 1997

SPINE SYMPOSIUM 1997 - Vancouver, British Columbia
July 24-26, 1997 16

**CONTEMPORARY SURGERY OF THE THORACIC AND LUMBAR SPINE -
MINIMALLY INVASIVE TECHNIQUES** - Orlando, Florida
August 24-28, 1997

NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING -
New York, New York October 22-15, 1997 23

5TH SPINAL SURGERY COURSE - Royal Postgraduate Medical
School, Hammersmith Hospital- London October 29-31, 1997

17TH CONGRESS OF THE ASEAN ORTHOPAEDIC ASSOCIATION -
Penang, Malaysia November 13-16, 1997

**THE CANADIAN ORTHOPAEDIC ASSOCIATION - A COURSE ON SPINAL
DISORDERS** - Montreal, Canada November 21-22, 1997 20

PHILIPPINE ORTHOPAEDIC ASSOCIATION ANNUAL CONGRESS -
Quezon City, Philippines December 3-6, 1997

METHODS OF INTERBODY FUSION OF THE SPINE -
New York, New York December 12, 1997 8

A CONTEMPORARY UPDATE ON DISORDERS OF THE SPINE -
Whistler, British Columbia, Canada
January 18-23, 1998 32.5

SPINAL SURGERY...CURRENT AND INNOVATIVE THEORY AND TECHNIQUES
Snowmass, Colorado January 27-27,1998 12

ENDOSCOPIC SPINAL FUSION WORKSHOP - University of
Massachusetts, Worcester, MA. March 27, 1998 8

RAY TFC SYMPOSIUM - Houston, Texas April 3-5,1998

Courses Attended...Continued:

JAPANESE ORTHOPAEDIC ASSOCIATION 71st ANNUAL MEETING - Tokushima, Japan	April 17-20, 1998	
DEBATING COMPLEX ISSUES IN SPINE SURGERY - Chicago, Illinois	April 30-May 2, 1998	
ISSLS ANNUAL MEETING - Brussels, Belgium	June 9-13, 1998	
WESTERN ORTHOPAEDIC ASSOCIATION - Aspen, Colorado	September 6-10, 1998	
NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING - San Francisco, California	October 28-31, 1998	21.25
KOREAN SPINE SOCIETY MEETING - Seoul, Korea	November 20, 1998	
The Management of Vertebra Intercorporeal Disorders - Chicago, Illinois	December 5-6, 1998	9
A Contemporary Update on Disorders of the Spine - Ski With The Spine Center -		27
Whistler, British Columbia, Canada	January 17-22, 1999	
AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS ANNUAL MEETING - Anaheim, California	February 4-8, 1999	28.50
JOINT SECTION ON DISORDERS OF THE SPINE AND PERIPHERAL NERVES- Orlando, Florida	February 10-13, 1999	18
COMPLICATIONS OF SPINAL FUSION - Squaw Creek, Olympic Valley, California	March 6-7, 1999	8
MANAGEMENT of CERVICAL and LUMBAR SPINE DISORDERS: AN INTERACTIVE SEMINAR - Washington, D.C.	March 27-28, 1999	13.5
MINIMALLY INVASIVE TECHNOLOGIES: MEDICINE in the 21st CENTURY Dallas, Texas	May 14-15, 1999	11

Courses Attended...Continued:

JAPANESE SPINE RESEARCH SOCIETY ANNUAL MEETING - Tokyo, Japan	June 3-5, 1999	
INTERNATIONAL SOCIETY FOR THE STUDY OF THE LUMBAR SPINE ANNUAL MEETING - Kona, Hawaii	June 21-25, 1999	
6TH INTERNATIONAL MEETING ON ADVANCED SPINE TECHNOLOGIES (IMAST) - Vancouver, B.C.	July 8-10, 1999	
5TH STRYKER SPINAL INVITATIONAL SYMPOSIUM - Brazil	September 27-29, 1999	
NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING - Chicago, Illinois	October 20-23, 1999	24.5
Advances in Treating Osteoporotic Vertebral Body Compression Fractures - Chicago, Illinois	October 24, 1999	3
Current Controversies and Challenges in Spine Surgery - Miami Beach, Florida	November 18-21, 1999	
12TH SYMPOSIUM OF THE SPINE STUDY GROUP - THE SPINE: CURRENT CONCEPTS AND TREATMENT - Naples, Florida	February 2-6, 2000	20.5
AANS/CNS SECTION ON DISORDERS OF THE SPINE AND PERIPHERAL NERVES - Indian Wells, California	February 22-26, 2000	16
AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS ANNUAL MEETING - Orlando, Florida	March 15-19, 2000	24.5
JAPANESE ORTHOPAEDIC ASSOCIATION ANNUAL MEETING - Kobe, Japan	April 6-9, 2000	
INTERNATIONAL SOCIETY FOR THE STUDY OF THE LUBMAR SPINE ANNUAL MEETING - Adelaide, Australia	April 9-13, 2000	
SPINE 2000 - Newport Beach, California		

Hansen A. Yuan, M.D.

(145)

April 28-29, 2000

12

Courses Attended...Continued:

FAILURES OF SPINAL SURGERY: A TRIBUTE Baltimore, Maryland	May 12-14, 2000	
7TH INTERNATIONAL MEETING ON ADVANCED SPINE TECHNIQUES - Barcelona, Spain	July 6-8, 2000	24
SPINE ACROSS THE SEA - Kamuela, Big Island, Hawaii July 23-27, 2000		16
OSTEOPOROSIS AND VERTEBRAL BODY COMPRESSION FRACTURES: MEDICAL MANAGEMENT AND A NEW MINIMALLY INVASIVE SURGICAL PROCEDURE - Syracuse, New York	August 23, 2000	2
WORLD SPINE - Berlin	August 29-Sept. 1, 2000	
Singapore Orthopaedic Association Annual Meeting - Singapore	September 6-9, 2000	
Spinal Surgeon International Symposium Napa Valley, California	September 21-23, 2000	13
3rd Annual Herman Lohman, M.D. Memorial Symposium - "State of the Art Management of Chronic Low Back Pain" Livingston, New Jersey	October 7, 2000	6
North American Spine Society 15th Annual Meeting - New Orleans, Louisiana	October 25-28, 2000	22.25
Anterior Column Support of the Spine VI: Fusion Versus Motion - Scottsdale, Arizona	November 8-11, 2000	17.5
Stryker Canada Alpha Group - Los Cabos, Mexico February 11-18, 2001		
American Orthopaedic Association Annual Meeting - Palm Beach, Florida	June 13-16, 2001	24.5

Courses Attended...Continued:

**International Society for the Study of the Lumbar Spine
Instructional Course -**
Beijing, China September 20-22, 2001

II Advance Venezuelan Spine Meeting - Caracas, Venezuela
September 28-29, 2001

North American Spine Society 16th Annual Meeting - 20
Seattle, Washington October 31-November 3, 2001

**North American Spine Society 16th Annual Meeting Pre-Course:
Image-Guided Spine Surgery -**
Washington State Convention & Trade Center
Seattle, Washington October 31, 2001

35th Japanese Scoliosis Society Meeting -
Nagoya, Japan November 16-17, 2001

Current Concepts in Spinal Disorders -
LaQuinta, California March 8-9, 2002 9.5

2nd Annual Pittsburgh Spine Symposium -
Pittsburgh, Pa. March 12, 2002

AO ASIF Comprehensive and Interactive Spine Courses -
Coronado, California April 18-21, 2002 25

U.S. Surgeon Champion Summit -
Coral Gables, Florida April 26-28, 2002

**Emerging Concepts in Spine Surgery: Controversies &
Challenges in the Spine Surgeon's Practice -**
Key Largo, Florida May 3-4, 2002 10

**Spine Arthroplasty 2 - Intervertebral Disc Replacement and
Non-Fusion Technology -**
Montpellier, France May 6-8, 2002

International Society for the Study of the Lumbar Spine -
Cleveland, Ohio May 14-18, 2002

Courses Attended..Continued:Credit Hours

1st Annual Meeting of Korean Minimal Invasive Spine Surgery Research Society -	Catholic University of Korea	
	May 31-June 1, 2002	
15th Annual Intradiscal Therapy Society Meeting -		
Seoul, Korea	August 21-24, 2002	
SICOT/SIROT 2002 XXII World Congress -		
San Diego, California	August 23-30, 2002	
Scoliosis Research Society 37th Annual Meeting -		
Seattle, Washington	September 18-21, 2002	
5th Combined Meeting Spinal & Paediatric Sections, APOA -		
Singapore	October 13-16, 2002	
International Conference on Spinal Surgery -		
Beijing and Chongqing, China	October 15-22, 2002	
North American Spine Society 17th Annual Meeting -		
Montreal, Canada	October 30 - November 2, 2002	
Scoliosis Research Society 37th Annual Meeting -		
Seattle, Washington	September 18-21, 2002	15
South Carolina Spine Society Annual Meeting -		
Charleston, South Carolina	September 21, 2002	
3rd World Congress Minimally Invasive Spinal Surgery & Medicine	-Phoenix, Arizona	December 8-11, 2002
2nd Annual Symposium on Current Concepts in Spinal Disorders		
LaQuinta, California -	February 28-March 2, 2003	8.75
The Journey of Spine - Spinal Arthroplasty Society Meeting -		
Scottsdale, Arizona	May 1-3, 2003	19.5
International Society for the Study of the Lumbar Spine -		
VanCouver, Canada B.C.	May 13-17, 2003	

<u>Courses Attended..Continued:</u>	<u>Credit Hours</u>
23rd Annual Alumni Day - Department of Orthopaedic Surgery, Upstate Medical University, Syracuse, New York	June 13, 2003 5.75
Spine Across the Sea 2003 Maui, Hawaii	July 27-31, 2003 20.25
World Spine II Chicago, Illinois	August 10-13, 2003 8
Eastern Japan Society of Clinical Orthopaedics Tokyo, Japan	September 24-28, 2003
Eurospine Prague	October 1-2, 2003
North American Spine Society 18th Annual Meeting - San Diego, California	October 21-25, 2003
North American Spine Society 18th Annual PreCourse: Total Disc Replacement San Diego, California	7.5 October 21, 2003
Clinicolegal Correlations Course, Columbia University College of Physicians & Surgeons - Online Course	October 30, 2003
2nd Annual Dynamic Spine Stabilization: Arthroplasty Techniques & Technology - Dallas, Texas	November 14-15, 2003
Korea Orthopedic Spine Surgery Society Conference - Seoul, Korea	November 28-29, 2003
Orthopaedic Research Society 50th Annual Meeting - San Francisco, California	March 7-10, 2004
Orthopaedic Academy of Orthopaedic Surgery Annual Meeting - San Francisco, California	March 10-14, 2004

<u>Courses Attended..Continued:</u>	<u>Credit Hours</u>
NASS Spring Break: Innovations in Spine Care -Boca Raton, Florida	April 22-24, 2004 17.5
Spine Arthroplasty Society - Vienna, Austria	May 4-7, 2004
Chinese Medical Association Orthopedic Society - The 7th Spinal Surgery Meeting - Beijing, P.R. China	May 15-17, 2004
Portuguese Spine Society - Lisbon, Portugal	May 28, 2004
ISSLS Annual Meeting - Spine Week 2004 - Porto, Portugal	May 31-June 5, 2004
AAOS/CSOS Annual Meeting Beijing, China	Sept. 22-24, 2004
Emerging Technologies in Spine Surgery - Washington, D.C.	Sept. 30- Oct. 2, 2004 16
North American Spine Society Annual Meeting - Chicago, Illinois	October 27-30, 2004 17.75
Current Issues and Techniques in Complex Lumbar Spine Surgery - St. Louis, Missouri	Nov. 11-13, 2004 6.5
The First National Congress of Minimal Invasive Spine Surgery - Wenzhou, P.R. of China	Dec. 3-5, 2004
North American Spine Society Spring Break 2005 - Back Into Motion - Bal Harbour, Florida	April 6-9, 2005 5.75
Spine Arthroplasty Society - Global Symposium on Intervertebral Disc Replacement & Non-Fusion Technology- New York, New York	May 4-7, 2005 18
International Society for the Study of the Lumbar Spine - New York, New York	May 10-14, 2005

Courses Attended..Continued:Credit Hours

2 nd Chinese International Scoliosis Symposium - Beijing, P.R. of China	May 21-23, 2005	
18 th Annual International Intradiscal Therapy Society Meeting - San Diego, California	May 25-28, 2005	15.5
3 rd Stryker Italy Spine Symposium - Hammamet, Tunisia	June 22-25, 2005	
IMAST PRE-COURSE: Motion Sparring Technology in Spinal Surgery - Banff, Alberta, Canada	June 6, 2005	
2 nd Annual Innovative Techniques in Spine Surgery - Los Cabos, Mexico	July 21-23, 2005	
4 th Annual Emerging Technologies in Spine Surgery - Washington, DC	Sept. 15-17, 2005	14
20 th Annual North American Spine Society Meeting - Philadelphia, PA.	Sept. 27-Oct. 1, 2005	
Scoliosis Research Society 40 th Annual Meeting - Miami, Florida	Oct. 28-30, 2005	15
20 th Annual Congress of Neurosurgery Association of Thailand & 3 rd Thai-German Neurosurgeon Joint Meeting & Spine Workshop Bangkok	Nov. 30-Dec. 2, 2005	
IV International Annual Theoretical-Practice Mtg. of Spine Surgery Mexico City	January 19-21, 2006	
5 th Annual Symposium on Current Concepts in Spinal Disorders, Cedars-Sinai Medical Center Las Vegas, Nevada	February 3-4, 2006	
American Academy of Orthopaedic Surgeons Annual Meeting - Chicago, Illinois	March 22-26, 2006	25

Courses Attended..Continued:Credit Hours

Preservation of Motion in the Spine - Duck Key, Florida	April 5-8, 2006
Spine Arthroplasty Society, 6 th Annual Global Symposium on Motion Preservation Technology - Montreal, Canada	May 9-13, 2006 8.75
Spinal Arthroplasty/Motion Preservation Workshop - Amelia Island, Florida	June 21-25, 2006
Clinicolegal Correlations Course - Basic Science Studies Self-Study Program Continuing Medical Education Internet Program, "Discontinued Care" - Columbia University College of Physicians & Surgeons, NY, NY	June 16, 2006 1.00
Clinicolegal Correlations Course - Basic Science Studies Self-Study Program Continuing Medical Education Internet Program, "Informed Consent" - Columbia University College of Physicians & Surgeons, NY, NY	June 16, 2006 1.00
Clinicolegal Correlations Course - Basic Science Studies Self-Study Program Continuing Medical Education Internet Program, "Accepting Patients" - Columbia University College of Physicians & Surgeons, NY, NY	June 16, 2006 1.00
Clinicolegal Correlations Course - Basic Science Studies Self-Study Program Continuing Medical Education Internet Program, "Scope of Practice" - Columbia University College of Physicians & Surgeons, NY, NY	June 16, 2006 1.00
Clinicolegal Correlations Course - Basic Science Studies Self-Study Program Continuing Medical Education Internet Program, "Duties to Non-Patients" - Columbia University College of Physicians & Surgeons, NY, NY	June 16, 2006 1.00

Courses Attended..Continued:Credit Hours

Clinicolegal Correlations Course - Basic Science Studies
 Self-Study Program Continuing Medical Education Internet
 Program, "Records and Disclosures" -
 Columbia University College of Physicians & Surgeons, NY, NY
 June 16, 2006 1.00

Clinicolegal Correlations Course - Basic Science Studies
 Self-Study Program Continuing Medical Education Internet
 Program, "Supervision and Control" -
 Columbia University College of Physicians & Surgeons,
 NY, NY June 16, 2006 1.50

Clinicolegal Correlations Course - Basic Science Studies
 Self-Study Program Continuing Medical Education Internet
 Program, "Consultation and Referral" -
 Columbia University College of Physicians & Surgeons, NY, NY
 June 16, 2006 1.00

Clinicolegal Correlations Course - Basic Science Studies
 Self-Study Program Continuing Medical Education Internet
 Program, "Provider Interaction" -
 Columbia University College of Physicians & Surgeons, NY, NY
 June 16, 2006 1.00

Spine Across the Sea - Kapalua, Hawaii
 July 23-27, 2006

North American Spine Society Annual Meeting -
 Seattle, Washington September 26-30, 2006

National Association of Corporate Directors -
 Washington, DC October 14-15, 2006

Courses Attended..Continued:Credit Hours

Chinese Orthopaedic Association First International Congress Beijing, China	November 12-15, 2006	
Viet Nam Orthopedic Association & Spine Society of HCMC, Viet Nam(SSHV) Ho Chi Minh City, Viet Nam	November 16-22, 2006	
AAOS Annual Meeting, San Diego, CA.	February 14-18, 2007	
NASS Spring Break Phoenix, Arizona	March 14-17, 2007	
Aesculap Spine Workshop Snowbird Ski Resort	March 21-24, 2007	
Spine Arthroscopy Society Annual Meeting - Berlin	May 1-4, 2007	
NASS Motion Stabilization Course - Burr Ridge, Illinois	May 18-19, 2007	
Clinicolegal Correlations Course - Basic Science Studies Self-Study Program Continuing Medical Education Internet Program, "Patient Conduct" - Elm Exchange, Inc.	May 30, 2007	1.75
Clinicolegal Correlations Course - Basic Science Studies Self-Study Program Continuing Medical Education Internet Program, "Orthopedics Standards of Care" - Elm Exchange, Inc.	May 30, 2007	1.75
Innovative Techniques in Spine Surgery - Los Cabos, Mexico	June 27-30, 2007	
North American Spine Society Annual Meeting - Austin, Texas	October 23-27, 2007	
COA Meeting - Zhengzhou, China	November 9-11, 2007	

Courses Attended..Continued:Credit Hours

1 st Asia Pacific SAS Conference - Seoul, Korea	January 16-18, 2008	
Current Concepts in Spinal Disorders - Las Vegas, Nevada	February 1-2, 2008	12.5
Spine Technology Summit - Miami, Florida	May 5, 2008	
Spine Arthroplasty Society(SAS) Annual Meeting. Miami, Florida	May 6-9, 2008	
1 ST World Congress of Minimally Invasive Spine Surgery Techniques (WCMISST) Honolulu, Hawaii	June 3-7, 2008	
8 th Annual Symposium on Current Concepts in Spinal Disorders Las Vegas, Nevada	January 29-31, 2009	
1st International Lumbar Surgical Congress Beijing, China	March 20-22, 2009	
3 rd Congress of The Indonesian Spine Society - Towards the Healthy Spine Jakarta, Indonesia	July 16-18, 2009	
Society for Minimally Invasive Spine Surgery Las Vegas, Nevada	October 9-12, 2009	
Innovative Techniques in Spine Surgery Scottsdale, Arizona	October 15-17, 2009	
NASS 24 TH Annual Meeting San Francisco, California	November 10-24, 2009	
Elsevier Editors Conference Scottsdale, Arizona	November 13-15, 2009	
9 th Annual Symposium in Current Concepts in Spinal Disorders 2010 - Las Vegas, Nevada	February 4-6, 2010	

Courses Attended..Continued:Credit Hours

2 nd MISS Summit Forum at the Aichi Spine Institute - Nagoya, Japan	March 12-14, 2010	
Preservation of Motion in the Spine - Duck Key, Florida	April 7-10, 2010	14.75
Innovative Techniques in Spine Surgery - Los Cabos, Mexico	June 17-19, 2010	
19 th Annual Meeting-Japanese Spinal Instrumentation Society Sapparo, Japan	October 28-29, 2010	
International Congress of Minimally Invasive Spine Surgery Antalya, Turkey	November 4-7, 2010	
10 th Annual Symposium on Current Concepts in Spinal Disorders - Las Vegas, Nevada	February 3-5, 2011	10.25
SAS Annual Meeting - Las Vegas, Nevada April 25-28, 2011		
11 th Annual Symposium on Current Concepts in Spinal Disorders - Las Vegas, Nevada	February 2-4, 2012	11.5
12 th Annual Global Symposium on Motion Preservation □Technology - Barcelona, Spain	March 20-23, 2012	22.00
NASS 27 th Annual Meeting - Dallas, Texas October 24-27, 2012		
13 th Annual ISASS Conference - Vancouver, BC	April 2-5, 2013	
KOMISS Symposium and Cadaver Workshop - Seoul, Korea	June 1-2, 2013	