

# Curriculum Vitae

## Michael C. Geraci, Jr., MD PT

### Education

- State University of New York at Buffalo, Buffalo, New York
- School of Medicine – Fifth Pathway Program, 1984
- State University of New York, Education Department
  - Degree: Doctor of Medicine (M.D.)
- Universidad Autonoma de Guadalajara, School of Medicine, Guadalajara, Mexico
- Clinical Clerkships: 3<sup>rd</sup> and 4<sup>th</sup> year @ Grant Hospital, The Ohio State University Medical School,
- Columbus Ohio and Sisters' of Charity Hospital, Buffalo, NY, SUNY @ Buffalo School of Medicine
  - Degree: Physician and Surgeon, 1983
- Daemen College, Amherst, New York
  - Bachelor of Science (Magna Cum Laude) in Physical Therapy, 1979
- Niagara University, Niagara University, New York
  - Bachelor of Science in Business, 1975

### Clinical Training

- Internship/Residency – SUNY at Buffalo – Affiliated Hospitals – School of Medicine and Biomedical Sciences
- Physical Medicine and Rehabilitation 1984-1988
- Chief Resident 1987-1988

### Special Training

#### Procedures:

- Platelet Rich Plasma (PRP) and Stem Cell Therapy Injections
- Trigger Point Injections
- Peripheral Joint and Bursal Injections

#### Spine:

- Fluoroscopic: Facet Joint/Epidural Injections: cervical, thoracic, lumbar interlaminar and transforaminal
- Selective Nerve Root Blocks/SI Injections/shoulder & hip regional blocks with mobilizations and manipulations
- Peripheral Nerve Blocks
- Ultrasound guided peripheral joint, nerve sheath, bursa, tendon sheath, PRP/Stem Cell injections

#### Electrodiagnostic Medicine:

- Musculoskeletal Ultrasound
- Diagnostic Ultrasound
- Therapeutic Injections-Ultrasound Guided
- Manual Medicine of the Spine and Extremities
- Functional Exercises for the Spine & Extremities
- Orthotic Management & Treatment
- Trilingual (English/Spanish/Italian)

### Professional Licensure

- Medicine and Surgery, New York State License No. 162259
- Physical Therapist, New York State License No. 6117

### **Professional Employment**

- Michael C. Geraci, Jr., MD, PC, Medical Director, Owner, March 2013-Present
- MASH: SOS (Spine/Occupational/Sports), Medical Director, December 2011-March 2013
- Buffalo Spine & Sports Institute, PC – President, Co-Founder, Fellowship Program Director, and Director of Sports Medicine 1991 – 2011
- Specializing in Spine, Sports Medicine & Musculoskeletal Disorders 1986 – Present

### **Board Certification**

- American Board of Physical Medicine and Rehabilitation – Diplomate. Board Certified: Unlimited 5/18/89 (#3033)
- American Board of Physical Medicine and Rehabilitation – Subspecialty-Sports Medicine. Board Certified 9-1-12 through 12-31-2022 (#361)

### **Certification**

- Advanced Cardiac Life Support, January 2003-2012
- Re-certification: January 2005-2007; November 2006- 2008; November 2008-2010; November 2010-2012

### **Specialty Areas**

- Sports Medicine – Board Certified Subspecialty
- Physical Medicine and Rehabilitation-Board Certified Specialty
- Spine Medicine
- Occupational Medicine
- Spinal Injections
- Manual Medicine
- Medical Diagnostic Ultrasound
- Electrodiagnosis
- Functional Exercises

### **Honors and Awards**

- Selected by peers to be included in America's Top Doctors list by Castle Connolly, Ltd., 2013-2015
- Who's Who in Medicine and Healthcare 2011, 2012, and 2013.
- Recipient of one of the Top 50 Health Care Professionals, Business First, 2011.
- Recipient of the Physiatric Association of Spine, Sports and Occupational Rehabilitation (PASSOR) Distinguished Clinician Award for 2006
- Recipient of The Avalon Cole Lectureship Award, University of Virginia, Dept. of Physical Medicine and Rehabilitation, Charlottesville, VA, March 24, 2006
- Recipient of Mike Hage Lectureship Award for Passion, Compassion & Willingness to Share,
- Rehabilitation Institute of Chicago, Chicago, Illinois, August 9, 2003.
- Selected by peers to be included in the Best Doctors in America 2005-2015 database.
- Recipient of Kessler Medical Rehabilitation Research and Education Corporation, Excellence in Clinical Practice Award, New Jersey, Procter & Gamble, March 30, 2000.
- Recipient of Northwest University Medical School Department of Physical Medicine &

#### Rehabilitation

- Prince Visiting Professor Fellowship Award: Rehabilitation Institute of Chicago, December 11, 1998.
- Park-Pribadi Memorial Teaching Award – SUNY at Buffalo School of Medicine and Biomedical Sciences, Department of Physical Medicine & Rehabilitation 1988 – 1989
- Teaching Excellence Award – SUNY at Buffalo School of Medicine 1986 – 1987
- Magna Cum Laude, Daemen College, 1979
- Delta Epsilon Sigma National Honor Society 1978 – Present
- Tri Beta Biological Honor Society 1978 – Present

#### Faculty Appointments

- SUNY at Buffalo School of Medicine and Biomedical Sciences
- Department of Physical Medicine and Rehabilitation
- Clinical Associate Professor 2005- present
- Clinical Assistant Professor 1989 – 2004
- Undergraduate Medical Education Committee – 1988 – 1989
- Co-Coordinator – 4th Year Medical Student Elective 1988 – 1989
- Co-Coordinator – Introduction to Clinical Medicine, Second Year 1988 – 1989
- Medical Students – Musculoskeletal System 1988 -1989
- Graduate Medical Education Co-Coordinator of Rotating Residents and Fellows
- Clinical Instructor 1988 – 1989
- Clinical Assistant Instructor 1984 – 1988
- Department of Family Medicine – Clinical Associate Professor
- Co-Coordinator – Rotating Residents for Out-patient Spine & Sports Medicine 1991 – Present
- Department of Neurosurgery – Clinical Assistant Professor 1989 – 1990
- Michigan State University – Dept. of Physical Medicine & Rehabilitation
- Clinical Associate Professor – College of Osteopathic Medicine 2005-present
- Michigan State University – Dept. of Physical Medicine & Rehabilitation
- Clinical Assistant Professor – College of Osteopathic Medicine 1993 – 2005
- Michigan State University – Division – Continuing Medical Education Faculty – 1991 – Present
- Daemen College – Graduate Dept. Of Physical Therapy – Adjunct Faculty – Amherst, New York, 1994 – Present

#### Hospital/Health Care Affiliations and Positions Held

- Ambulatory Surgery Center of Western New York, Attending Physician, March 2013-present.
- Michael C. Geraci, Jr., MD, PC, Medical Director, Owner, March 2013-Present
- Medical Director, MASH: SOS (Spine/Occupational/Sports), December 2011-March 2013
- Fellowship Program Director, Buffalo Spine and Sports Institute, PC, trained 24 fellows in spine, occupational, sports medicine, and fluoroscopic guided spinal injections, 1992-2011
- Sports Medicine Director, Buffalo Spine and Sports Institute, PC, 2004-2011
- Sports Medicine Outreach Medical Director, Sports Physical Therapy of New York, Inc., 2005-present
- Board of Directors, Clinical Rehabilitation Specialists
- Buffalo State College-NCAA Div. III – Consulting Team Physician-2003-Present
- Hilbert College – NCAA Div. III – Head Team Physician -2005 – 2010
- Canisius College – NCAA Div. I – Consulting Team Physician – 2001 – present
- Niagara University – NCAA Div. I – Consulting Team Physician – 2001 – present
- Niagara County Community College – Team Physician – 2000 – 2005

- Sports Medicine Supervising Physician for ATC: Nichols High School and Cleveland Hill High School
- Kaleida Health System -Attending Physician- 1999 – Present
- St. Joseph’s Intercommunity Hospital – Attending Physician – 1995 – March 2003 (voluntary resignation)
- Sisters of Charity Hospital & Corporate Health – 1994 – April 2003 (voluntary resignation)
- Buffalo Mercy Hospital – Co-Medical Director AthletiCare Sports Medicine Clinic 1993 – 1997 (Voluntary Resignation)
- Daemen College – Team Physician – 1993 – 2001
- Buffalo Blizzard – National Professional Soccer League – Team Physician – 1992 – 2001
- Buffalo Spine & Sports Medicine, PC – Director Fellowship Program, Director of Sports Medicine,
  - President and Co-Founder – 1991 – 2011
- Kenmore Mercy Hospital
  - AthletiCare Sports Medicine Clinic 1991 – 1997 (voluntary resignation)
  - Attending Physician 1991 – Present
- Millard Fillmore Hospitals
  - Attending Physician 1989 – present
  - Medical Director – Back Institute of Buffalo 1989 – 1990 (voluntary resignation)
- Erie County Medical Center
  - Attending Physician – 1988 – 1989 (voluntary resignation)
  - Director of Musculoskeletal Medicine Center – 1988 – 1989

### **Membership in Professional Organizations**

- American Institute of Ultrasound in Medicine, 2012-Present
- International Society of Clinical Rehab Specialists-Board of Director, 2002-Present
- Erie County Medical Society
- Medical Society of the State of New York
- Diplomat – American Board of Physical Medicine and Rehabilitation 1989 – present
  - Subspecialty in Sports Medicine 2012-2022
- Fellow – American Academy of Physical Medicine and Rehabilitation 1989 – present
- Fellow – North American Spine Society 1991 – present
  - Non-operative Care Committee 2000 – 2003
- Charter Member – Physiatric Association of Spine, Sports & Occupational Rehabilitation 1993 – present
- Board of Governors – Physiatric Association of Spine, Sports & Occupational Rehabilitation 1995 – 1999
- Founding Member – International Spinal Intervention Society 1991 – present
- American College of Sports Medicine 1992 – present
- Phi Delta Epsilon Medical Fraternity 1979 – Present
  - Local Chapter Vice President 1980 – 1981
  - Local Chapter President 1981 – 1982

### **Other Scholarly Activity**

#### **Publications -**

#### **Abstracts**

- **Geraci MC**, McAdam FB, Alleva JT: The Association of Muscle Imbalances and Lumbar Shift in Patients with Lower Lumbar Central Disc Herniations, Abstract, North American Spine Society Annual Meeting proceedings, Boston, MA, July 1992.

## Articles

- **Geraci MC**, Roh EY, Smuck M: Preseason Training for Golfers with Low Back Pain. SpineLine, January-February, 2012.
- **Geraci MC**, Brown W, Velasquez JR: Low Back Pain in Adolescent Athletes: Diagnosis, Rehabilitation and Prevention, in Athletic Therapy Today 10(5), pp.6-12, Human Kinetics, September, 2005.
- **Geraci MC**, Brown W: Evidence Based Treatment of Hip and Pelvic Injuries in Runners, Physical Medicine and Rehabilitation Clinics of North America, V. Akuthota, M. Harrast & G. Kraft (eds), Saunders, August, 2005
- **Geraci, MC**: Facet Joint Pain: Manual Evaluation & Treatment, SpineLine, S. Weinstein (ed) Jan/Feb 2005.
- **Geraci MC**, Alleva JT, Prather H: Manipulation Under Anesthesia, Physical Medicine and Rehabilitation Clinics of North America, Stanton D, Mein E (eds), 7, November 1996
- **Geraci MC**: Rehabilitation of Pelvis, Hip & Thigh Injuries in Sports, Physical Medicine and Rehabilitation Clinics of North America, Press J (ed), 5, February 1994

## Chapters

- **Geraci, MC**, Lambert M, Bogulski J: Neuromobilization Techniques – Evaluation and Treatment of Adverse Neurodynamic Tension and the Container, in Rehabilitation of the Spine, Liebenson C (ed), 3rd ed., Lippincott Williams & Wilkins, 2016.
- **Geraci, MC**, McGill, SM: Chapter 25: Functional Restoration of Painful Lumbar Spinal Disorders in Interventional Spine Care, DePalma, M (ed.), 2011.
- **Geraci MC**, Lambert M, Bookhout MR: Evaluation and Treatment of Adverse Neurodynamic Tension, *in* Rehabilitation of the Spine, Liebenson C (ed), 2<sup>nd</sup> ed., Lippincott Williams & Wilkins, 2006.
- **Geraci MC**, McAdam FB, Alleva JT: Physiatric Physical Examination of the Spine and its Functional Kinetic Chain, *in* The Low Back Pain Handbook: A Practical Guide for the Primary Care Clinician, Cole AJ, Herring SA (eds), 2nd ed., Hanley & Belfus/Mosby, 2002
- Wilder R, **Geraci MC**, Cole A: Overuse Injuries of the Hip & Pelvis in Sports, *in* Physical Medicine & Rehabilitation: The Complete Approach, Grabois M, Garrison S (eds), Blackwell Science, Inc., 1999
- **Geraci MC**: Rehabilitation of the Hip, Pelvis and Thigh *in* Functional Rehabilitation in Sports and Musculoskeletal Injuries, Press J, Herring SA, Kibler WB (eds), Aspen Publishing, 1998
- **Geraci MC**, Alleva JT: Physical Examination of the Spine and its Functional Kinetic Chain, *in* The Low Back Pain Handbook: A Practical Guide for the Primary Care Clinician, Cole AJ, Herring SA (eds.), Hanley & Belfus/Mosby, 1996
- **Geraci MC**: Overuse Injuries of the Hip and Pelvis, *in* The Injured Runner, Journal of Back & Musculoskeletal Rehabilitation, Wilder R (ed), 6, 1996

## Lay Publication

- **Geraci MC**: *USA Today*, public relations project for the American Academy of Physical Medicine and Rehabilitation, September 21, 2001

## Reviewer: Scientific Peer Review Articles and Abstracts

- Pain Medicine
- American Journal of Physical Medicine and Rehabilitation
- North American Spine Society: Annual Meetings

- North American Spine Society: Evidence and Technology Spine Summit

### Current Research

- **Geraci MC**, Waghmarae, R: Use of Adipose Derived Stem Cells in Peripheral Joints and Lumbar Discs Principle Investigator: Peripheral Joints, October 2014-October 2015
- **Geraci MC**, Brown W, McGill SM: Functional Spine Exercises, Muscle Activation and Spinal Loads: Phase I: A Pilot Study, completed December 8, 2003, Phase II completed October 25-26, 2007. Phase III completed December 2-3, 2010, Article in development for submission for publication.

### Presentations

- “Motor Control Impairment: Clinical Testing and Treatment.” Exercise-Based Management of Lumbar Spine Pain: An Algorithmic Approach to Decision-Making. North American Spine Society, 28<sup>th</sup> Annual Meeting, New Orleans, LA, October 9, 2013.
- “Physical Therapy after Invasive Treatment; Why?” Exercise-Based Management of Lumbar Spine Pain: An Algorithmic Approach to Decision-Making. North American Spine Society, 28<sup>th</sup> Annual Meeting, New Orleans, LA, October 9, 2013.
- “Neck-Shoulder Differential Diagnosis: Anatomy and Biomechanics.” North American Spine Society, 28<sup>th</sup> Annual Meeting, New Orleans, LA, October 11, 2013.
- “Workshop on Physical Examination of Neck-Shoulder Differential Diagnosis.” North American Spine Society, 28<sup>th</sup> Annual Meeting, New Orleans, LA, October 11, 2013.
- “Overview and Differential Diagnosis” – Pediatric and Adolescents with Low Back Pain. 9<sup>th</sup> Annual NASS- Evidence and Technology Spine Summit, Park City, Utah February 28, 2013.
- “Overview and Focus on Prevention”- The Aging Spine. 9<sup>th</sup> Annual NASS- Evidence and Technology Spine Summit, Park City, Utah March 1, 2013.
- “Evidence Based Physical Therapy”- Cervical Spine Focus on Disc Herniations. 9<sup>th</sup> Annual NASS- Evidence and Technology Spine Summit, Park City, Utah March 2, 2013.
- “Treatment of the Container and Neuromobilizations”- Cervical Spine Radiculopathy. 9<sup>th</sup> Annual NASS- Evidence and Technology Spine Summit, Park City, Utah March 2, 2013.
- “Musculoskeletal Evaluation of the Kinetic Chain.” Section on Rehabilitation, Interventions, and Medical Spine: Cervical and Thoracic Pain: Diagnosis and Treatment. NASS Spine Education and Research Center. Burr Ridge, IL, April 27, 2012.
- “Exercise III: Rehabilitation Specifics.” Section on Rehabilitation, Interventions, and Medical Spine: Cervical and Thoracic Pain: Diagnosis and Treatment. NASS Spine Education and Research Center. Burr Ridge, IL, April 27, 2012.
- “Exercise and Posture: Thoracic.” Section on Rehabilitation, Interventions, and Medical Spine: Cervical and Thoracic Pain: Diagnosis and Treatment. NASS Spine Education and Research Center. Burr Ridge, IL, April 28, 2012.
- “Postural Alignment and What Else Does it Lead to?” Evidence & Technology Spine Summit, Park City, Utah. February 25, 2012.
- “How to Evaluate Spine Stability, Endurance and Motor Control: The 10-Minute Evaluation for the Busy Clinician.” Evidence & Technology Spine Summit, Park City, Utah. February 23, 2012.
- “New Techniques for Discogenic Pain and Stability.” Evidence & Technology Spine Summit, Park City, Utah. February 24, 2012.
- “The Aging Spine: Focus on Prevention.” The Utah Academy of Pain Medicine, Salt Lake City, UT. February 22, 2012.
- “Strengthening and Stretching”. Instructional Course: Section on Rehabilitation, Interventions and Medical Spine Care: Thoracic Spine Pain. The North American Spine

- Society, 26<sup>th</sup> Annual Meeting. Chicago, IL. November 2, 2011.
- “Postural Alignment”. Instructional Course: Section on Rehabilitation, Interventions and Medical Spine Care: Thoracic Spine Pain. The North American Spine Society, 26<sup>th</sup> Annual Meeting. Chicago, IL. November 2, 2011.
  - “Physical Therapy, Chiropractic, and Other Treatments: An adjunct to or when interventional treatments are not indicated.” International Spine Intervention Society, 19<sup>th</sup> Annual Meeting. Chicago, IL. Saturday August 13, 2011.
  - “Natural History and Non-op Treatment of Spondylolysis.” Evidence & Technology Spine Summit, Park City, Utah. February 4, 2011.
  - “Non-surgical hands on workshop-Evaluation and treatment of the container in patients with cervical radiculopathy.” Evidence & Technology Spine Summit, Park City, Utah February 3, 2011.
  - “Non-surgical hands on workshop-Evaluation of Spine Stability in a 5-10 Minute Re-Visit for the Busy Clinician.” Evidence & Technology Spine Summit, Park City, Utah February 4, 2011.
  - “Spine Training for Skiing.” Evidence & Technology Spine Summit, Steamboat Springs, CO, January 15, 2010.
  - “Positional/Harness MRI in Assessment of Lumbar Disc Herniation.” Evidence & Technology Spine Summit, Steamboat Springs, CO, January 15, 2010.
  - “Subacute Low Back Pain: How to Monitor Progress in Physical Therapy.” Rehabilitation Medicine for Surgeons and other Spine Specialists. North American Spine Society, Pre-Course Meeting. San Francisco, CA, November, 10, 2009.
  - “Spine and Sports: Implication for the Senior Athlete: Pre-season training for the 70 year old golfer: Changes in the golf swing related to spine pathology and following fusion.” North American Spine Society 24<sup>th</sup> Annual Meeting. San Francisco, Ca. November, 13, 2009.
  - “How to Decide Directional Preference in Five Minutes.” Rehabilitation Medicine for Surgeons and other Spine Specialists. North American Spine Society, Burr Ridge, IL, September 12, 2009.
  - “Acute and Subacute Neck and Thoracic Pain: Strength Training Specifics.” Rehabilitation Medicine for Surgeons and other Spine Specialists. North American Spine Society, Burr Ridge, IL, September 12, 2009.
  - “Subacute Low Back Pain: How to Monitor Progress in Physical Therapy.” Rehabilitation Medicine for Surgeons and other Spine Specialists. North American Spine Society, Burr Ridge, IL, September 12, 2009.
  - “Poorly Responsive Low Back Pain: Rehabilitation/Functional Restoration.” Rehabilitation Medicine for Surgeons and other Spine Specialists. North American Spine Society, Burr Ridge, IL, September 12, 2009. “The Aging Spine: Focus on Prevention” The Aging Spine, Rehabilitation Institute of Chicago, Chicago, IL, July, 17, 2009.
  - “The Aging Spine: Functional Anatomy and Biomechanics” The Aging Spine, Rehabilitation Institute of Chicago, Chicago, IL, July, 17, 2009.
  - “The Aging Spine: The Whole Body Approach, Functional Exercise, Manual Medicine and Neuro-mobilizations” The Aging Spine, Rehabilitation Institute of Chicago, Chicago, IL, July, 17, 2009.
  - “The Evaluation of the Spine and its Functional Kinetic Chain: *Accurate Diagnostic and Effective Therapeutic Interventions for Chronic Low Back Pain, 4<sup>th</sup> Annual Central Virginia Spine Symposium, Jefferson Hotel, Richmond, VA, Friday April 17, 2009.*
  - “Sacroiliac Joint Pain: The Role for Physical Therapy.” Emerging Spine Technologies Summit, Steamboat Springs, Colorado, February 6, 2009.
  - “Degenerative Scoliosis in Pre-Existing Idiopathic Scoliosis: Physical Therapy, Medications and Brace Treatments” Emerging Spine Technologies Summit, Steamboat Springs, Colorado, February 7, 2009.
  - “Evidence-Based Treatments for Special Populations with Spine Conditions: Pediatric and Adolescent Emerging Spine Technologies Summit, Steamboat Springs, Colorado,

February 7, 2009.

- “The Physical Examination of the Shoulder Region.” AAPMR 69<sup>th</sup> Annual Assembly Resident Section, San Diego, CA, November 20, 2008.
- “The Shoulder-Neck Syndrome.” AAPMR 69<sup>th</sup> Annual Assembly, San Diego, CA, November 20, 2008.
- “The Evaluation and Treatment of the Upper Quarter.” AAPMR 69<sup>th</sup> Annual Assembly, San Diego, CA, November 21, 2008.
- “The Athletic Shoulder: Multi-directional Instability.” AAPMR 69<sup>th</sup> Annual Assembly, San Diego, CA, November 22, 2008.
- “Manual Medicine Evaluation and Treatment of the Cervical, Thoracic, Lumbar Spine & Ribs” and “When All Else Fails: From More PT to Surgery”, Rehabilitation Sports Medicine XX, Sports and Spine Symposium: The Spine in Sports. Rehabilitation Institute of Chicago, Chicago, IL, April 27-29, 2007.
- “Defining the Failure of Non-operative Treatment in Patients with Spinal Stenosis.” The 4<sup>th</sup> Annual Emerging Technologies of the Spine, Jackson Hole, WY, February 6-10, 2008.
- “Identifying the Pain Generator in Patients with Adult Scoliosis.” The 4<sup>th</sup> Annual Emerging Technologies of the Spine, Jackson Hole, WY, February 6-10, 2008.
- “Rehabilitation of Spinal Disorders: Focus on Exercise.” The 20<sup>th</sup> Annual Disorders of the Spine, Whistler, B.C., Canada, January 23, 2008.
- “Exercises for the Osteoporotic Patient”, The 2<sup>nd</sup> Annual Central Virginia Spine Symposium, University of Virginia, Richmond, Virginia, June 8, 2007.
- “Manual Medicine Evaluation and Treatment of the Cervical, Thoracic, Lumbar Spine & Ribs” and “When All Else Fails: From More PT to Surgery”, Rehabilitation Sports Medicine XX, Sports and Spine Symposium: The Spine in Sports. Rehabilitation Institute of Chicago, Chicago, IL, April 27-29, 2007.
- “Evaluating and Treating the Athlete and Non-Athlete”: Functional Based Exercise and Manual Therapy Interventions”, St. Alfonsus Medical Center, Boise, Idaho, March, 3-4, 2007.
- “Medical Evaluation and Treatment of Osteoporosis”, 19<sup>th</sup> Annual Disorders of the Spine, Whistler, BC, Canada, January 18, 2007.
- “Workshop on Exercises for Spinal Disorders.” 19<sup>th</sup> Annual Disorders of the Spine, Whistler, BC, Canada, January 18, 2007.
- “Evaluating and Treating the Athlete and Non-Athlete: Functional Based Exercises and Manual Therapy Interventions, course chairman, The University of Washington, Seattle, WA, January 20-21, 2006.
- “The Six Basic Functional Tests”, Lecture and workshop. “The Functional Kinetic Chain: A Case Study Approach”. Rehabilitation Sports Medicine XIX, Sports and Spine Symposium: Lower Body Approach. Rehabilitation Institute of Chicago, Chicago, IL, April, 28-30, 2006.
- “Rehabilitation of Spinal Disorders”, 18<sup>th</sup> Annual Disorders of the Spine, Whistler, B.C. Canada, January 18, 2006.
- “Functional Joint Mobilization of the Foot/Ankle, Hip and Knee”. Sport & Spine Rehabilitation Symposium XVIII, Lower Body Approach. Rehabilitation Institute of Chicago, April 29 – May 1, 2005
- “Putting it all Together – Case of Knee ACL Tear/Repair”. Sports & Spine Rehabilitation Symposium XVIII, Lower Body Approach. Rehabilitation Institute of Chicago, April 29 – May 1, 2005.
- “The Aging Spine: Focus on Prevention”, Emerging Technologies Spine Education Summit, Telluride, Colorado, March 4, 2005
- “Sports Performance Enhancement and Injury Prevention”, Sport & Spine Rehabilitation Symposium XVII, Upper Body Approach”, Rehabilitation Institute of Chicago, December 12, 2004
- “The Utilities of Manual Therapies in Treating Musculoskeletal Decline”, presented at the Annual Meeting of the American Academy of Physical Medicine and Rehabilitation and Physiatric Association of Spine, Sports & Occupational Rehabilitation, October 2004



- “Functional Progression: Lower Body: Lower Extremity & Spine”, presented at the Rehabilitation Sports Medicine XVI, Rehabilitation Institute of Chicago, Chicago, April 22-24, 2004
- “Home Exercise to Compliment Manual Therapy: Lower Extremity & Spine”, presented at the Rehabilitation Sports Medicine XVI, Rehabilitation Institute of Chicago, Chicago, April 22-24, 2004
- “Functional Assessment: Kinetic Chain Evaluation – six Basic Tests: Lower Extremity & Spine”, presented at the Rehabilitation Sports Medicine XVI, Rehabilitation Institute of Chicago, Chicago, April 22-24, 2004
- “The Gray areas of McGill: Where Function Meets Science”, presented at the National Academy of Sports Medicine, From Reactivation to Performance Enhancement, Los Angeles, April 2-4, 2004
- “Upper Limb Dynamic Neural Tension: Treating the Container”, presented at the Rehabilitation Institute of Chicago, Rehabilitation Sports Medicine XV, Sports-Specific Functional Rehabilitation: Upper Limb Dominant Sports, Chicago, Illinois, April 24-26, 2003
- “Sports Performance Enhancement & Injury Prevention”, presented at the Rehabilitation Institute of Chicago, Rehabilitation Sports Medicine XV, Sports-Specific Functional Rehabilitation: Upper Limb Dominant Sports, Chicago, Illinois, April 24-26, 2003
- “Upper Extremity Injury Prevention”, presented at the Rehabilitation Institute of Chicago, Rehabilitation Sports Medicine XV, Sports-Specific Functional Rehabilitation: Upper Limb Dominant Sports, Chicago, Illinois, April 24-26, 2003
- “Spinal Manipulation in Spine Care: Who, Why, When?”, presented at the North American Spine Society – 17<sup>th</sup> Annual Conference, Montreal, Quebec, Canada, October 31, 2002
- “The Aging Spine”, presented at the North American Spine Society – 17<sup>th</sup> Annual Conference, Montreal, Quebec, Canada, October 30, 2002
- “What is Functional Progression?”, presented at the Rehabilitation Institute of Chicago, Rehabilitation Sports Medicine XIV, Sports-Specific Functional Rehabilitation: Controversies in Running-Related Sports, Chicago, Illinois, December, 8, 2001
- “Functional Progression in Soccer”, presented at the Rehabilitation Institute of Chicago, Rehabilitation Sports Medicine XIV, Sports-Specific Functional Rehabilitation: Controversies in Running-Related Sports, Chicago, Illinois, December, 8, 2001
- “Counterpoint: The Controlled Mobility Model”, presented at the Rehabilitation Institute of Chicago, Rehabilitation Sports Medicine XIV, Sports-Specific Functional Rehabilitation: Controversies in Running-Related Sports, Chicago, Illinois, December, 8, 2001
- “Spinal Injection Cadaver Course”, Faculty, Physiatric Association of Spine, Sports & Occupational Rehabilitation, New Orleans, LA, September 11-12, 2001
- “Scientific Basis of the Physiatric Physical Examination of the Spine: A Functional Approach”, presented at the 9<sup>th</sup> Annual Meeting of the Physiatric Association of Spine, Sports & Occupational Rehabilitation – Hands-on Cadaver Course, New Orleans, Louisiana, September 11-12, 2001
- “Sensory-motor Retraining / Evaluation of Adverse Neurodynamic Tension: Is it Muscle Tightness or Nerve Tension?”, presented at the Rehabilitation Institute of Chicago, Rehabilitation Sports Medicine XIII, The Role of Manual Medicine and Exercise in Sports and Industry, Course Chairman, Chicago, Illinois, December, 9, 2000
- “The Physiatric Physical Examination of the Spine”, presented at Kessler Medical Rehabilitation Research and Education Corporation, New Jersey, March 30, 2000
- “Physiatric Physical Examination of the Spine: How it Helps in the Rehabilitation Program”, presented at the 16<sup>th</sup> Annual Physical Medicine & Rehabilitation Update, Park City, Utah, January 30, 2000
- “Proprioceptive / Sensory-motor Training”, presented at the 7<sup>th</sup> Annual Meeting of the Physiatric Association of Spine, Sports & Occupational Rehabilitation, Washington, DC, November 1999
- “Meet The Experts”, presented at the 7<sup>th</sup> Annual Meeting of the Physiatric Association of

- Spine, Sports & Occupational Rehabilitation, Washington, DC, November 1999
- “Adverse Neural Dynamic Tension of the Spine and Lower Extremities”, The Functional Approach to Musculoskeletal Medicine, Buffalo, New York, October 15-17, 1999
- “Gluteal Retraining”, The Functional Approach to Musculoskeletal Medicine, Buffalo, New York, October 15-17, 1999
- “Mobilization of the Anterior Lower Quarter”, The Functional Approach to Musculoskeletal Medicine, Buffalo, New York, October 15-17, 1999
- “Rehabilitation of Low Back Pain”, Case Studies, presented at the Rehabilitation Institute of Chicago, Rehabilitation Sports Medicine XI, Case Studies in Sports Medicine, Chicago, Illinois, December 11, 1998
- Prince Lecture: “The Scientific Basis of the Physiatric Examination of the Spine: Why the Orthopedic & Neurologic Exams are Not Enough”, presented at the Rehabilitation Institute of Chicago, Chicago, Illinois, December 9, 1998
- “Spinal Injection Cadaver Course”, Faculty, Physiatric Association of Spine, Sports & Occupational Rehabilitation, Seattle WA, November, 3-4, 1998.
- “Cervical Spine: Physical Examination”, presented at the American Academy of Physical Medicine & Rehabilitation 60<sup>th</sup> Annual Assembly, Seattle, Washington, November 1998
- “Lumbo-Pelvic Exam”, presented at the American Academy of Physical Medicine & Rehabilitation 60<sup>th</sup> Annual Assembly, Seattle, Washington, November 1998
- “Wrist Exam”, presented at the American Academy of Physical Medicine & Rehabilitation 60<sup>th</sup> Annual Assembly, Seattle, Washington, November 1998
- “Spinal Injection Cadaver Course”, Faculty, Physiatric Association of Spine, Sports & Occupational Rehabilitation, Seattle, Washington, November 3-4, 1998
- “Update on Soft Tissue & Rehabilitation: An International Perspective; Concepts and Principles Regarding Muscle Imbalances: Janda vs. Sahrman”, University of Manitoba, Winnipeg, Manitoba, May 28-30, 1998
- “Update on Soft Tissue & Rehabilitation: An International Perspective; Scientific Basis of Muscle Imbalances & Neuromobilizations: A Review of the Literature”, Winnipeg, Manitoba, May 28-30, 1998
- “Update on Soft Tissue & Rehabilitation: An International Perspective; Physical Examination of the Spine and its Functional Kinetic Chain: Emphasis on Segmental Motion, Muscle Imbalances and Adverse Neurodynamic Tension”, Winnipeg, Manitoba, May 28-30, 1998
- “Update on Soft Tissue & Rehabilitation: An International Perspective; Muscle Control and Coordination: Part I: Evaluation of Lumbo-pelvic Region”, Winnipeg, Manitoba, May 28-30, 1998
- “Update on Soft Tissue & Rehabilitation: An International Perspective; Muscle Control and Coordination: Part II: Lower Quarter Evaluation & Treatment”, Winnipeg, Manitoba, May 28-30, 1998
- “Update on Soft Tissue & Rehabilitation: An International Perspective; Muscle Control and Coordination: Part III: Upper Quarter Evaluation & Treatment”, Winnipeg, Manitoba, May 28-30, 1998
- “Spinal Injection Cadaver Course”, Faculty, Physiatric Association of Spine, Sports & Occupational Rehabilitation, Orlando, FL, March 20-22, 1998
- “History & Physical Examination of the Lumbo-pelvic Region” and “History & Physical Examination of the Cervico-Thoracic-Scapular Region”, presented at the Physiatric Association of Spine, Sports & Occupational Rehabilitation Mid-year Meeting, Orlando, Florida, March 20-22, 1998
- “Physical Examination of the Spine and its Entire Kinetic Chain – Scientific Basis”, presented at the 9<sup>th</sup> Annual Meeting, Seccion de Fisiatria, Puerto Rico, September 1997
- “Treatment of Low Back Pain: The Scientific Basis of Muscle Imbalances: A Review of the Literature”, presented at the 9<sup>th</sup> Annual Meeting, Seccion de Fisiatria, Puerto Rico, September 1997
- “Treatment of Low Back Pain: The Role of Injections: Rationale and Therapeutic/Diagnostic Considerations”, presented at the 9<sup>th</sup> Annual Meeting, Seccion de

- Fisiatria, Puerto Rico, September 1997
- “Spinal Injection Cadaver Course”, Faculty, Physiatric Association of Spine, Sports & Occupational Rehabilitation,
  - “New Orleans, Louisiana, September 6-7, 1997
  - “Scientific Basis for Sports and Musculoskeletal Medicine: Validation of Physical Examination: Cervical / Lumbar Spine”, presented at the Association of Academic Physiatrists Annual Meeting, Colorado Spring, Colorado, February 26 – March 1, 1997
  - Chairman and Hands-on Workshop Coordinator, Physiatric Association of Spine, Sports & Occupational Rehabilitation Annual Meeting, Chicago, Illinois, October 12-13, 1996
  - “Exploring New Horizons in Musculoskeletal Medicine: The Hip – Anatomy & Physical Exam”, lecture and workshop presented at the Physiatric Association of Spine, Sports & Occupational Rehabilitation Annual Meeting, Orlando, Florida, November 1995
  - “Overload Injuries of the Leg” and “Overload Injuries of the Hip and Pelvis”, presented at the Rehabilitation Institute of Chicago, Rehabilitation Sports Medicine VII: Overload Injuries in the Athlete, Chicago, Illinois, December 8-10, 1994
  - “Physical Examination of the Low Back” and “Diagnosis & Management of Low Back Pain”, 6th Annual Sports Medicine Conference for the Primary Care Physician, Rochester, New York, December 1, 1994
  - “Non-operative Approach to Lumbar Radiculopathy, Treatment and Rehabilitation in Herniated Nucleus Pulposus”, American Academy of Family Physicians Annual Meeting, Boston, Massachusetts, September 24, 1994
  - “Office Injections of the Spine”, American College of Sports Medicine 40th Annual Meeting, Indianapolis, Indiana, June 1-4, 1994
  - “Carpal Tunnel Syndrome: Is There Light at the End?, Non-surgical Management”, “Injections, Rationale and Therapeutic/Diagnostic Considerations”, and “Cervical Spine Differential Diagnosis: How to Use the Physical Examination to Define Cervical Pain Generators”, Southern Pain Society Annual Meeting, Dallas, Texas, March 12-13, 1994
  - “Muscular Imbalances in the Aging Athlete” and “The Aging Hip and Pelvis”, presented at Rehabilitation Institute of Chicago, Rehabilitation Sports Medicine VI: The Aging Athlete, Chicago, Illinois, December 9-11, 1993
  - “The Differential Diagnoses of Hip Pain in the Athlete”, presented at the Inaugural Meeting of the Physiatric Association of Spine, Sports & Occupational Rehabilitation, Miami Beach, Florida, November 4-5, 1993
  - “The Physiatrist as Team Physician – Soccer”, presented at the Annual Meeting of the American Academy of Physical Medicine & Rehabilitation, Sports Medicine Special Interest Group, Miami Beach, Florida, October 31, 1993
  - “Non-Operative Treatment Outcome for the Herniated Nucleus Pulposus with Radiculopathy”, abstract submitted for presentation, North American Spine Society Annual Meeting, San Diego, CA, October 1993
  - “The Safety of Fluoroscopic Spinal Injections in an Out-patient Non-hospital Setting”, abstract submitted for presentation, North American Spine Society Annual Meeting, San Diego, CA, October 1993
  - “The Role of Muscle Imbalances in Recurrent Work-Related Injuries”, “Pain Control: Medications and Injections”, “Current Problems and Potential Solutions in the Workers Compensation System”, presented at the American Back Society Annual Meeting, Buffalo, New York, May 19-21, 1993
  - “Muscle Imbalances in Athletes and Spine Disorders”, American Back Society Annual Meeting, New Orleans, LA, May 1992
  - “Selected Lower Extremity Injuries in Sports: The Hip, Pelvis and Thigh”, American Academy of Physical Medicine and Rehabilitation Annual Meeting, Washington, D.C., October 27-31, 1991
  - “Biomechanics of the Pelvis and Sacroiliac Joints”, American Back Soc., Ann.. Meeting, Toronto, CA, May, 1991.

### **Courses Chaired**

- North American Spine Society – 12th Evidence & Technology Spine Summit. Course Director and Faculty, Park City, Utah, February 24-27, 2016.
- North American Spine Society – 11th Evidence & Technology Spine Summit. Course Director and Faculty, Snowbird, Utah, February 26-28, 2015
- North American Spine Society – Evidence & Technology Spine Summit. Course Director and Faculty, Park City, Utah, February 27-March 1, 2014.
- North American Spine Society – Evidence & Technology Spine Summit. Course Director and Faculty, Park City, Utah, February 28-March 2, 2013.
- North American Spine Society – Evidence & Technology Spine Summit. Course Director and Faculty. Park City, Utah, February 23-25, 2012.
- North American Spine Society – Evidence & Technology Spine Summit. Course Director and Faculty. Park City, Utah, February 2-5, 2011.
- Exercise, Nutrition and Aging: A Scientific Approach. Course Director. Faculty: William Evans, Ph.D., FACSM, FACN and Nancy Clark, MS, RD, CSSD. Buffalo Spine and Sports Institute, Williamsville, NY, November 13-14, 2010.
- Building the Ultimate Back: From Rehabilitation to High Performance. Course Director. Faculty: Stuart M. McGill, Ph.D. Buffalo Spine and Sports Institute, Williamsville, NY, September 26-27, 2009.
- Where Orthopedics Meets Function. Course Director. Faculty: W. Ben Kibler, M.D. and Timothy L. Uhl, Ph.D., P.T. Buffalo Spine and Sports Institute, Williamsville, NY, May 7-8, 2010,
- Introduction to Functional Exercise and Functional Manual Treatment. Course Chairman and Faculty. Buffalo Spine and Sports Institute, Williamsville, NY May 2-3, 2009.
- Introduction to Functional Exercise and Functional Manual Treatment. Course Chairman and Faculty. Orthopedic Spine and Orthopedic Specialists. York, PA, November 8-9, 2008
- Diagnostic Approach to Musculoskeletal Rehabilitation: Pain and Mechanical Classification Systems. Course Chairman. Faculty: Annie O'Connor, PT, Cert. MDT, Dave J. Pleva, MA, PT, Dip. MDT, Joel M. Press, MD Buffalo Spine and Sports Institute, P.C. Williamsville, NY, November 1-2, 2008.
- Introduction to Functional Exercise and Functional Manual Treatment. Course Chairman and Faculty. The University of Rochester, Department of Orthopedics, Rochester, NY, September 6-7, 2008.
- Management of the Whiplash Patient. Course Chairman. Presented by Adriaan Louw, M.App.Sc. (Physio), GCRM, CSMT Buffalo Spine and Sports Institute P. C., Williamsville, NY, November, 3-4, 2007.
- Evaluating and Treating the Athlete and Non-Athlete: Functional Based Exercise and Manual Therapy Interventions, Course Chairman, Sports Physical Therapy of New York, New York., NY May 19-20, 2007. Shoulder
- Integration Concept, presented by John Tomberlin, MS PT. Course Chairman. Buffalo Spine and Sports Institute, P.C., Williamsville, NY, May 5-6, 2007.
- Evaluating and Treating the Athlete and Non-Athlete: Functional Based Exercise and Manual Therapy Interventions, Course Chairman, St. Alfonsus Medical Center, Boise, Idaho, March, 3-4, 2007.
- Lower Extremity Management for the Athletic Population, Course Chairman, Buffalo Spine and Sports Institute. Williamsville, NY, August 11, 2006.
- Evaluating and Treating the Athlete and Non-Athlete: Functional Based Exercises and Manual Therapy Interventions, Course Chairman, The University of Washington, Seattle, WA, January 20-21, 2006.
- The Functional Approach to Musculoskeletal Medicine III, co-chairman, The National Academy of Sports Medicine, Los Angeles, California, April 2-4, 2004
- Manual Medicine World Spine II, Rehabilitation Institute of Chicago, Chicago, Illinois, August 10, 2003
- The Functional Approach to Musculoskeletal Medicine II, Co-Chairman, Rehabilitation Institute of Chicago, Chicago, Illinois, October 2001

- Rehabilitation Sports Medicine XIII, The Role of Manual Medicine & Exercise in Sports & Industry, Co-Chairman, Chicago, Illinois, December 7-9, 2000
- The Functional Approach to Musculoskeletal Medicine, Co-Chairman, Buffalo, New York, October 15-17, 1999
- The Principles and Treatment of Muscle Imbalances in Musculoskeletal and Sports Injuries: The Cervico-Thoracic & Scapular Regions, Course Chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, April 24, 1999
- Breaking Down the Walls: The Physical Exam & Treatment of Muscle Imbalances/Neuromobilizations in Musculoskeletal and Sports Injuries: The Lumbo-Pelvic Region, sponsored by Buffalo Spine & Sports Medicine, Co-Chairman, Williamsville, New York, December 6, 1998
- The Physical Examination & Treatment of Muscle Imbalances/Neuromobilizations in Musculoskeletal & Sports Injuries: The Lumbo-Pelvic Region, errata, Williamsville, New York, October 24, 1998, Course Chairman
- Prevention of Low Back Pain, Chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, October 1, 1998
- Exercise & Exercise Equipment, What You Need to Know Before Buying Another Piece of Exercise Equipment, Chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, December 4, 1997
- Physical Examination & Treatment of the Spine: A Practical Approach for the Primary Care Clinician with Emphasis on Muscle Imbalances and Neuromobilizations, errata, Williamsville, New York, November 15, 1997, Course Chairman
- Level-II: Muscle Imbalances – Emphasis on Combined Craniosacral & Neuromobilization Techniques, Chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, October 25, 1997
- The Principles & Treatment of Muscle Imbalances & Myofascial Release in Musculoskeletal & Sports Injuries: The Cervical-Thoracic & Scapular Regions, Chairman, Canton, Ohio, April 5, 1997
- Muscle Imbalances – Lumbo-pelvic Region, Chairman, sponsored by Buffalo Spine & Sports Medicine, PC, Williamsville, New York, November 1996
- Physiatric Association of Spine, Sports & Occupational Rehabilitation, Co-Chairman – Annual Meeting, Chicago, Illinois, October 12-13, 1996
- Chairman and Hands-on Workshop Coordinator, Physiatric Association of Spine, Sports & Occupational Rehabilitation Annual Meeting, Chicago, Illinois, October 12-13, 1996
- The Principles & Treatment of Muscle Imbalances in Musculoskeletal & Sports Injuries: The Lumbo-Pelvic Region, Chairman, sponsored by Buffalo Spine & Sports Medicine, PC, Williamsville, New York, June 1, 1996
- Muscle Imbalances – Cervical, Thoracic Region, Chairman, sponsored by Buffalo Spine & Sports Medicine, PC, Williamsville, New York, May 1996
- The Principles & Treatment of Muscle Imbalances in Musculoskeletal & Sports Injuries: The Lumbo-Pelvic Region – Including Myofascial Release Techniques, Chairman, Canton, Ohio, April 13-14, 1996
- Muscle Imbalances – Lumbo-pelvic Region, Chairman, Sponsored by Buffalo Spine & Sports Medicine, PC, The Sports Medicine of Soccer, Including Lower Extremity & Spine Injuries in Sports, Chairman, Daemen College, August 25, 1994
- Shoulder Injuries in the Throwing Athlete, Co-Chairman, Daemen College, May 25, 1993
- Exercise Prescription as an Adjunct to Manual Medicine, Course Chairman, Philip Greenman, D.O., Mark Bookhout, M.S., P.T., Williamsville, New York, May 22-23, 1993
- Mechanical Disorders of the Pelvis/Sacroiliac Region, Course Co-Chairman/Lecturer: Muscle Imbalances, Williamsville, NY, November 3, 1990
- Spinal Orthotics – Course Co-Chairman and Lecturer in Cervical Lumbar Orthoses and Spine Stabilizing Exercises, April 19-21, 1989

#### **Continuing Medical Education/National Scientific Meetings**

- North American Spine Society – 12th Annual Evidence and Technology Spine Summit. Park City, Utah. February 24-27, 2016.
- North American Spine Society-30th Annual Meeting. Chicago, IL. October 14-17, 2015
- North American Spine Society – 11<sup>th</sup> Annual Evidence and Technology Spine Summit. Snowbird, Utah. February 26-28, 2015.
- McKenzie – Mechanical Diagnosis and Therapy: Part B. Daemen College, Amherst, NY, August 22-24, 2014.
- The Orthobiologic Institute – 5<sup>th</sup> Annual Meeting on Platelet Rich Plasma & Regenerative Medicine Symposium with Cadaver Lab. Red Rock Resort, Las Vegas, NV. June 6-7, 2014.
- North American Spine Society – 10<sup>th</sup> Annual Evidence and Technology Spine Summit. Park City, Utah. February 27-March 1, 2014.
- McKenzie – Mechanical Diagnosis and Therapy: Part A. Daemen College, Amherst, NY, January 17-19, 2014.
- Exercise-Based Management of Lumbar Spine Pain: An Algorithmic Approach to Decision-Making. North American Spine Society-28th Annual Meeting. New Orleans, LA. October 9, 2013.
- North American Spine Society-28th Annual Meeting. New Orleans, LA. October 9-12, 2013.
- North American Spine Society – 9<sup>th</sup> Annual Evidence and Technology Spine Summit. Park City, Utah. February 28-March 2, 2013
- Advanced Musculoskeletal Ultrasound. Gulfcoast Ultrasound Institute, St. Pete's Beach, FL, June 8-9, 2012.
- Section on Rehabilitation, Interventions, and Medical Spine: Cervical and Thoracic Pain: Diagnosis and Treatment. NASS Spine Education and Research Center. Burr Ridge, IL, April 27-28, 2012.
- North American Spine Society – 8<sup>th</sup> Annual Evidence & Technology Spine Summit, Park City, Utah. February 23-25, 2012.
- North American Spine Society-26<sup>th</sup> Annual Meeting. Chicago, IL. November 2-5, 2011.
- International Spine Intervention Society, 19<sup>th</sup> Annual Meeting. Chicago, IL. August 10-13, 2011.
- Seventh Annual Evidence & Technology Spine Summit, Park City, Utah. February 2-5, 2011.
- Sixth Annual Evidence & Technology Spine Summit, Steamboat Springs, CO, January 15-18, 2010.
- North American Spine Society – 24<sup>th</sup> Annual Meeting. San Francisco, CA, November 11-14, 2009.
- Rehabilitation Medicine for Spine Surgeons and other Spine Specialists. North American Spine Society, Burr Ridge, IL, September 12, 2009.
- 4<sup>th</sup> Annual Central Virginia Spine Symposium: Accurate Diagnostic and Effective Therapeutic Interventions for Chronic Low Back Pain. Jefferson Hotel, Richmond, VA, April 17-10, 2009.
- Fifth Annual Evidence & Technology Spine Summit, Steamboat Springs, CO, February 5-8, 2009.
- Diagnostic and Therapeutic Musculoskeletal Ultrasound: Faculty: Paul Lento, M.D., Rehabilitation Institute of Chicago, Northwestern University. Buffalo Spine and Sports Institute, P.C. Williamsville, NY June 6-7, 2009.
- Diagnostic Approach to Musculoskeletal Rehabilitation: Pain and Mechanical Classification Systems. Course Chairman. Faculty: Annie O'Connor, PT, Cert. MDT, Dave J. Pleva, MA, PT, Dip. MDT, Joel M. Press, MD
- Buffalo Spine and Sports Institute, P.C. Williamsville, NY, November 1-2, 2008.
- American Academy of Physical Medicine and Rehabilitation, 69<sup>th</sup> Annual Assembly, San Diego, CA, November 20-23, 2008.

- Clinical Applications of Neurodynamics: Lower Quarter. Neuro-orthopaedic Institute, Buffalo Spine and Sports Institute, P.C., Williamsville, NY, May 3-4, 2008.
- Rehabilitation Sports and Spine Symposium XXI: The Spine, Rehabilitation Institute of Chicago, Chicago IL, April 25-27, 2008.
- The 4<sup>th</sup> Annual Emerging Technologies of the Spine, Jackson Hole, WY, February 6-10, 2008.
- The 20<sup>th</sup> Annual Disorders of the Spine, Whistler, B.C., Canada, January 24, 2008.
- Bone Strength Through Innovation. Presented by Susan Bukata, MD. Amherst, NY, November 15, 2007.
- Functional Restoration Outcomes. Presented by Robert Gatchel, Ph.D. and Diagnosis and Management of Adult Thoraco-Lumbar Spinal Deformity. Presented by Ross Moquin, MD at Spine Study Group, University of Rochester, Rochester, NY, November 8, 2007.
- Management of the Whiplash Patient. Presented by Adriaan Louw, M.App.Sc. (Physio), GCRM, CSMT Buffalo Spine and Sports Institute, Williamsville, NY, November, 3-4, 2007.
- The 2<sup>nd</sup> Annual Central Virginia Spine Symposium, University of Virginia, Richmond, VA, June 8, 2007.
- Shoulder Integration Concept, presented by John Tomberlin, MS PT at Buffalo Spine and Sports Institute, Williamsville, NY, May 5-6, 2007.
- Rehabilitation Sports Medicine XX, Sports and Spine Symposium: The Spine in Sports, Chicago, IL, April, 27-29, 2007.
- Musculoskeletal Ultrasound in Rheumatology, University of Rochester, Rochester, NY, March 30-April 1, 2007.
- The 19<sup>th</sup> Annual Disorders of the Spine: Whistler, BC, Canada, January 13-19, 2007
- Rehabilitation Sports Medicine XIX, Sports and Spine Symposium: Lower Body Approach, Chicago, IL, April, 28-30, 2006.
- Principles of Fitness and Training Applied to the Athlete & Patient Rehabilitation. Tudor O. Bompá, Ph.D., Buffalo Spine and Sports Institute, PC, Williamsville, NY, March 25-26, 2006.
- The 18<sup>th</sup> Annual Disorders of the Spine: Whistler, B.C., Canada, January 14-20, 2006.
- Mobilization of the Nervous System: Clinical Applications 2 : Upper Limb, Thorax and Neck. David Butler and the NOI team, Buffalo, New York, November 5-6, 2005.
- Mobilization of the Nervous System: Diagnosis and Management of Physical Dysfunction of the Nervous System in a Clinical Reasoning Framework. Neuro Orthopedic Institute, David Butler and the NOI team, Buffalo, New York, September 24-25, 2005.
- Rehabilitation Sports Medicine XVIII, Sports & Spine Rehabilitation Symposium: Lower Body Approach, Chicago, Illinois, April 29 – May 1, 2005.
- Emerging Technologies Spine Education Summit, Telluride, Colorado, March 2- 5, 2005
- Rehabilitation Sports Medicine XVII, Sports & Spine Rehabilitation Symposium: Upper Body Approach, Chicago, Illinois, December 10-12, 2004
- North American Spine Society – 19<sup>th</sup> Annual Meeting, Chicago, Illinois, October 27-30, 2004
- American Academy of Physical Medicine and Rehabilitation, Phoenix, Arizona, October 7-9, 2004
- Physicians' Reciprocal Insurers, 5-hour Risk Management Excess & Premium Reduction Course and Home Study Project, May 1, 2004
- Rehabilitation Sports Medicine XVI, Sports & Spine Rehabilitation Symposium: Lower Extremity & Spine, Rehabilitation Institute of Chicago, Chicago, Illinois, April 22-24, 2004
- Radiology for the Injectionist, International Spinal Injection Society, New Orleans, LA November 15, 2003
- North American Spine Society, World Spine II, Manual Therapy and Manipulation, Chicago, Illinois, August 10, 2003
- Rehabilitation Sports Medicine XV, Sports-Specific Functional Rehabilitation: Upper Limb Dominant Sports, Chicago, Illinois, April 24-26, 2003

- North American Spine Society – 17<sup>th</sup> Annual Conference, Montreal, Quebec, Canada, October 2002
- Abstract Reviewer for North American Spine Society Annual Meeting 2002
- Rehabilitation Sports Medicine XIV, Sports-Specific Functional Rehabilitation: Controversies in Running-Related Sports, Chicago, Illinois, December 6-8, 2001
- Michigan State University, College of Osteopathic Medicine, Exercise Prescription as an Adjunct to Manual Medicine, November 7-11, 2001
- The Functional Approach to Musculoskeletal Medicine II, Rehabilitation Institute of Chicago, Chicago, Illinois, October 2001
- Physiatric Association of Spine, Sports & Occupational Rehabilitation – Hands-on Cadaver Course, New Orleans, Louisiana, September 11-12, 2001
- Michigan State University, College of Osteopathic Medicine, Exercise Prescription as an Adjunct to Manual Medicine, May 16-20, 2001
- Chain Reaction Explosion Seminar: by Gary Gray, PT and David Tiberio, PT, PhD, Chicago, Illinois, April 5-7, 2001
- Rehabilitation Sports Medicine XIII, The Role of Manual Medicine & Exercise in Sports & Industry, Chicago, Illinois, December 7-9, 2000
- North American Spine Society – 15<sup>th</sup> Annual Conference, New Orleans, Louisiana, October 2000
- Physical Medicine & Rehabilitation – 16<sup>th</sup> Annual Update, Park City, Utah, January 30, 2000
- Physiatric Association of Spine, Sports & Occupational Rehabilitation – 7<sup>th</sup> Annual Conference, Washington, DC, November 12-14, 1999
- American Academy of Physical Medicine & Rehabilitation – Annual Assembly, Washington, DC, November 1999
- North American Spine Society – 14<sup>th</sup> Annual Conference, Chicago, Illinois, October 1999
- The Functional Approach to Musculoskeletal Medicine, Buffalo, New York, October 15-17, 1999
- Orthotic Reaction: by Michael Hansen, MPT, Chicago, Illinois, August 27-29, 1999
- Chain Reaction Festival: by Gary Gray, PT, Chicago, Illinois, May 14-16, 1999
- Rehabilitation Sports Medicine XI: Rehabilitation of Low Back Pain: Case Studies, Rehabilitation Institute of Chicago, Chicago, Illinois, December 11, 1998
- Prince Lecture: “The Scientific Basis of the Physiatric Examination of the Spine: Why the Orthopedic & Neurologic Exams are Not Enough”, presented at the Rehabilitation Institute of Chicago, Chicago, Illinois, December 9, 1998
- American Academy of Physical Medicine & Rehabilitation – Annual Assembly, Seattle, Washington, November 1998
- Physiatric Association of Spine, Sports & Occupational Rehabilitation – 6<sup>th</sup> Annual Meeting, Orlando, Florida, March 20-22, 1998
- Association of Academic Physiatrists – Annual Meeting, Colorado Springs, Colorado, February 26 – March 1, 1997
- Physiatric Association of Spine, Sports & Occupational Rehabilitation – Supplemental Meeting, Vancouver, Canada, October 1996
- North American Spine Society – 11<sup>th</sup> Annual Conference, Vancouver, Canada, October 23-26, 1996
- Physiatric Association of Spine, Sports & Occupational Rehabilitation, Chairman – Annual Meeting, Chicago, Illinois, October 12-13, 1996
- Mobilization of the Nervous System, Part II, by Neuro-Orthopedic Institute, Michael Schacklock, P.T., Buffalo, New York, May 1996
- Physiatric Association of Spine, Sports & Occupational Rehabilitation – Annual Meeting, Orlando, Florida, October 1995
- Mobilization of the Nervous System, Part I, by Neuro-Orthopedic Institute, Michael Schacklock, P.T., Buffalo, New York, May 1995



- Michigan State University, Alumni Course, Orlando, Florida, March 2-4, 1995
- Rehabilitation Sports Medicine VII: Overload Injuries in the Athlete, Rehabilitation Institute of Chicago, Chicago, Illinois, December 8-10, 1994
- American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, June 1-4, 1994
- Cervical Spine and Shoulder in Industry and Sports, Southern Pain Society, Dallas, Texas, March 12-13, 1994
- Rehabilitation Sports Medicine VII: Overload Injuries in the Athlete, Rehabilitation Institute of Chicago, Chicago, Illinois, December 8-10, 1994
- American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, June 1-4, 1994
- Cervical Spine and Shoulder in Industry and Sports, Southern Pain Society, Dallas, Texas, March 12-13, 1994
- Rehabilitation Sports Medicine VI: Aging Athlete, Rehabilitation Institute of Chicago, Chicago, Illinois, December 9-11, 1993
- Inaugural meeting – Physiatric Association of Spine, Sports & Occupational Rehabilitation, Miami Beach, Florida, November 4-5, 1993
- American Academy of Physical Medicine & Rehabilitation Annual Meeting, Miami Beach, Florida, October 31 - November 3, 1993
- North American Spine Society Annual Meeting, San Diego, California, October 14-16, 1993
- International Spinal Injection Society: Precise Localization of Low Back Pain and Sciatica, San Diego, California, October 13, 1993
- Shoulder Injuries in the Throwing Athlete, Co-Chairman, Daemen College, May 25, 1993
- Exercise Prescription as an Adjunct to Manual Medicine, Course Chairman, Philip Greenman, D.O., Mark Bookhout, M.S., P.T., Williamsville, New York, May 22-23, 1993
- American Back Society, Buffalo, New York, May 19-21, 1993
- Myofascial Release: Robert Ward, D.O., Faculty Member, D'Youville College, February 12-14, 1993.
- Cranio-sacral I: Michigan State University, College of Osteopathic Medicine, January 13-17, 1993
- Manual Medicine of Extremities in Relationship to Sports Medicine: Michigan State University, College of Osteopathic Medicine, November 20-22, 1992
- First World Congress: Low Back Pain and its Relationship to the Sacroiliac Joint, San Diego, CA, November 5-6, 1992
- Myofascial Release II: Michigan State University, College of Osteopathic Medicine, Robert Ward, D.O., September 25-27, 1992
- American Back Society, New Orleans, LA, May 5-10, 1992
- North American Spine Society, Boston, MA, July 8-10, 1992
- Craniosacral/Myofascial Release Seminar, John F. Barnes, P.T., Buffalo, NY, April 10-12, 1992
- Peace, Love & Healing – workshop with Bernie Siegel, M.D., Roswell Park Cancer Institute, November 21, 1991
- American Academy of Physical Medicine and Rehabilitation/American Congress of Rehabilitation Annual Meeting, Washington, D.C., October 27-31, 1991
- North American Spine Society, Keystone, Colorado, July 30 – August 4, 1991
- American Back Society, Toronto, Canada, May 1-5, 1991
- Tutorial on Spine Diagnostic/Therapeutic Injections Under Fluoroscopic Guidance and Spine Radiology: Charles N. Aprill, M.D., Diagnostic Conservative Management, New Orleans, LA, January 7-18, 1991 and May 3-7, 1992
- Rehabilitation Sports Medicine III: Focus on Lower Extremity, Rehabilitation Institute of Chicago, December 6-8, 1990
- Myofascial Release I: Michigan State University, Robert Ward, D.O., September 28-30,

1990

- North American Spine Society – Monterey, CA, August 9-12, 1990
- Muscle Imbalances in Low Back Pain: Michigan State University, College of Osteopathic Medicine, Vladimir Janda, M.D., May 7-9, 1990
- Manual Medicine: Direct Action Thurst. Michigan State University, College of Osteopathic Medicine, March 28 - April 1, 1990
- Rehabilitation Sports Medicine II: Focus on the Upper Extremity, Rehabilitation Institute of Chicago, December 14-16, 1989
- Tutorial Level I – Muscle Energy Techniques – Michigan State University, College of Osteopathic Medicine, September 9-13, 1989
- North American Spine Society, Quebec City, CA, June 20 – July 2, 1989
- Principles of Manual Medicine – Michigan State University, College of Osteopathic Medicine, Part I & II, November 1988, January 1989
- Rehabilitation Sports Medicine: Focus on the Spine in Sports – Rehabilitation Institute of Chicago, December 8-10, 1988
- American Academy of Physical Medicine and Rehabilitation/American Congress of Rehabilitation Medicine, Orlando, Florida, October 19-24, 1987; Seattle, Washington, October 30, 1988

### Teaching/Lectures/Workshops

- “The Evaluation and Treatment of the Container-Upper Quarter: The Cervico-Thoracic Region.” The Catholic Health System, April 22, 2016.
- “Platelet Rich Plasma and Stem Cell Therapy Basics.” The 12<sup>th</sup> Annual NASS-Evidence and Technology and Spine Summit, Park City, Utah February 27, 2016.
- “Body Weight: Squats, Lunges, Step ups/downs and Balance-Reach.” The 12<sup>th</sup> Annual NASS-Evidence and Technology and Spine Summit, Park City, Utah February 25, 2016.
- “Regenerative Medicine: Platelet Rich Plasma and Stem Cell Therapy.” November 4, 2015 WNYPTA Chapter D’Youville College. Buffalo, NY
- “The Functional Kinetic Chain in the Throwing Athlete: Injury Prevention and Performance”. Baseball/Softball Injury Prevention and Performance Seminar. AbsolutePerformance, October 3, 2015.
- “Workshop Cervico-Thoracic Evaluation and Treatment.” The 11<sup>th</sup> Annual NASS-Evidence and Spine Summit, Snowbird, Utah February 27, 2015.
- “Exercises for the Cervical and Thoracic Spine: Motor Control and Endurance.” The 11<sup>th</sup> Annual NASS- Evidence and Spine Summit, Snowbird, Utah February 27, 2015.
- “Regenerative Medicine of the Spine: Introduction and Overview: Does it have Value.” The 11<sup>th</sup> Annual NASS- Evidence and Spine Summit, Snowbird, Utah February 26, 2015.
- “The Aging Spine: Focus on Prevention.” The Buffalo Rehab Group-YMCA. Williamsville, NY, January 15, 2015.
- “The Aging Spine: Focus on Prevention.” The Buffalo Rehab Group 2100 Union Rd., West Seneca, NY, February 18, 2015.
- “An Algorithmic Approach to Treating Lumbar Spine Pain.” Lecture and Workshop. Advanced Care Physical Therapy, Niagara Falls Clinic. June 13, 2014.
- “The Aging Spine: Focus on Prevention.” The Buffalo Rehab Group-YMCA. Williamsville, NY, January 15, 2014.
- “The Aging Spine: Focus on Prevention.” Chautauqua Physical and Occupational Therapy. Jamestown, NY, December 4, 2013.
- “An Algorithmic Approach to Treating Lumbar Spine Pain.” Lecture and Workshop. Sports Physical Therapy of New York. Tonawanda, NY Clinic, November 22, 2013.
- “The Aging Spine: Focus on Prevention. Grand Rounds, University at Buffalo, Department of Neurosurgery, Gates Vascular Institute. October 31, 2013.
- “Motor Control Impairment: Clinical Testing and Treatment.” Exercise-Based Management of Lumbar Spine Pain: An Algorithmic Approach to Decision-Making. North

- American Spine Society, 28<sup>th</sup> Annual Meeting, New Orleans, LA, October 9, 2013.
- “Physical Therapy after Invasive Treatment; Why?” Exercise-Based Management of Lumbar Spine Pain: An Algorithmic Approach to Decision-Making. North American Spine Society, 28<sup>th</sup> Annual Meeting, New Orleans, LA, October 9, 2013.
- “Neck-Shoulder Differential Diagnosis: Anatomy and Biomechanics.” North American Spine Society, 28<sup>th</sup> Annual Meeting, New Orleans, LA, October 11, 2013.
- “Workshop on Physical Examination of Neck-Shoulder Differential Diagnosis.” North American Spine Society, 28<sup>th</sup> Annual Meeting, New Orleans, LA, October 11, 2013.
- “Overview and Differential Diagnosis” – Pediatric and Adolescents with Low Back Pain. 9<sup>th</sup> Annual NASS- Evidence and Technology Spine Summit, Park City, Utah February 28, 2013.
- “Overview and Focus on Prevention”- The Aging Spine. 9<sup>th</sup> Annual NASS- Evidence and Technology Spine Summit, Park City, Utah March 1, 2013.
- “Evidence Based Physical Therapy”- Cervical Spine Focus on Disc Herniations. 9<sup>th</sup> Annual NASS- Evidence and Technology Spine Summit, Park City, Utah March 2, 2013.
- “Treatment of the Container and Neuromobilizations”- Cervical Spine Radiculopathy. 9<sup>th</sup> Annual NASS- Evidence and Technology Spine Summit, Park City, Utah March 2, 2013.
- “Musculoskeletal Evaluation of the Kinetic Chain.” Section on Rehabilitation, Interventions, and Medical Spine: Cervical and Thoracic Pain: Diagnosis and Treatment. NASS Spine Education and Research Center. Burr Ridge, IL, April 27, 2012.
- “Exercise III: Rehabilitation Specifics.” Section on Rehabilitation, Interventions, and Medical Spine: Cervical and Thoracic Pain: Diagnosis and Treatment. NASS Spine Education and Research Center. Burr Ridge, IL, April 27, 2012.
- “Exercise and Posture: Thoracic.” Section on Rehabilitation, Interventions, and Medical Spine: Cervical and Thoracic Pain: Diagnosis and Treatment. NASS Spine Education and Research Center. Burr Ridge, IL, April 28, 2012.
- “Postural Alignment and What Else Does it Lead to?” Evidence & Technology Spine Summit, Park City, Utah. February 25, 2012.
- “How to Evaluate Spine Stability, Endurance and Motor Control: The 10-Minute Evaluation for the Busy Clinician.” Evidence & Technology Spine Summit, Park City, Utah. February 23, 2012.
- “New Techniques for Discogenic Pain and Stability.” Evidence & Technology Spine Summit, Park City, Utah. February 24, 2012.
- “The Aging Spine: Focus on Prevention.” The Utah Academy of Pain Medicine, Salt Lake City, UT. February 22, 2012.
- “Strengthening and Stretching”. Instructional Course: Section on Rehabilitation, Interventions and Medical Spine Care: Thoracic Spine Pain. The North American Spine Society, 26<sup>th</sup> Annual Meeting. Chicago, IL. November 2, 2011.
- “Postural Alignment”. Instructional Course: Section on Rehabilitation, Interventions and Medical Spine Care: Thoracic Spine Pain. The North American Spine Society, 26<sup>th</sup> Annual Meeting. Chicago, IL. November 2, 2011.
- “Physical Therapy, Chiropractic, and Other Treatments: An adjunct to or when interventional treatments are not indicated.” International Spine Intervention Society, 19<sup>th</sup> Annual Meeting. Chicago, IL. Saturday August 13, 2011. Seventh Annual Evidence & Technology Spine Summit, Park City, Utah. February 2-5, 2011.
- “Natural History and Non-op Treatment of Spondylolysis.” Evidence & Technology Spine Summit, Park City, Utah. February 4, 2011.
- “Non-surgical hands on workshop-Evaluation and treatment of the container in patients with cervical radiculopathy.” Evidence & Technology Spine Summit, Park City, Utah February 3, 2011.
- “Non-surgical hands on workshop-Evaluation of Spine Stability in a 5-10 Minute Re-Visit for the Busy Clinician.” Evidence & Technology Spine Summit, Park City, Utah February 4, 2011.

- Sixth Annual Evidence & Technology Spine Summit, Steamboat Springs, CO, January 15-18, 2010.
- "Spine Training for Skiing." Evidence & Technology Spine Summit, Steamboat Springs, CO, January 15, 2010.
- "Positional/Harness MRI in Assessment of Lumbar Disc Herniation." Evidence & Technology Spine Summit, Steamboat Springs, CO, January 15, 2010.
- North American Spine Society – 24<sup>th</sup> Annual Meeting. "Low Back Pain: How to Monitor Progress in Physical Therapy."
- "Pre-season training for the 70 year old golfer: Changes in the golf swing related to spine pathology and following fusion." San Francisco, CA, November 11-14, 2009.
- Rehabilitation Medicine for Spine Surgeons and other Spine Specialists.
- "Poorly Responsive LBP: Rehabilitation/Functional Restoration"
- "Acute and Subacute Neck and Thoracic Pain: Strength Training Specifics"
- North American Spine Society, Burr Ridge, IL, September 12, 2009.
- 4<sup>th</sup> Annual Central Virginia Spine Symposium: Accurate Diagnostic and Effective Therapeutic Interventions for Chronic Low Back Pain. The Evaluation and Treatment of the Spine and its Functional Kinetic Chain Jefferson Hotel, Richmond, VA, April 17-10, 2009.
- Fifth Annual Evidence & Technology Spine Summit, Steamboat Springs, CO, February 5-8, 2009.
- "Degenerative Scoliosis in Pre-Existing Idiopathic Scoliosis PT, Meds and Brace Treatments"
- "Pediatric and Adolescent Non-Op Breakout Session on Evidence-Based Treatments for Special Populations with Spine Conditions"
- "The Role for Physical Therapy: Non-Op Breakout Session on SI Joint Pain." The 4<sup>th</sup> Annual Emerging Technologies of the Spine, Jackson Hole, WY, February 6-10, 2008.
- "The Physical Examination of the Shoulder Region." AAPMR 69<sup>th</sup> Annual Assembly Resident Section, San Diego, CA, November 20, 2008.
- "The Shoulder-Neck Syndrome." AAPMR 69<sup>th</sup> Annual Assembly, San Diego, CA, November 20, 2008.
- "The Evaluation and Treatment of the Upper Quarter." AAPMR 69<sup>th</sup> Annual Assembly, San Diego, CA, November 21, 2008.
- "The Athletic Shoulder: Multi-directional Instability." AAPMR 69<sup>th</sup> Annual Assembly, San Diego, CA, November 22, 2008
- Evaluating and Treating the Athlete and Non-Athlete: Functional Based Exercise and Manual Therapy Interventions, Course Chairman, Orthopedic Spine and Specialists, York, PA, November 8-9, 2008..
- Evaluating and Treating the Athlete and Non-Athlete: Functional Based Exercise and Manual Therapy Interventions, Course Chairman, University of Rochester Medical Center, Dept., of Orthopedics, Rochester, NY, September, 6-7, 2008.
- Rehabilitation of Spinal Disorders: Focus on Exercise. Injury Prevention Seminars: Advances in Athletic Conditioning and Injury Prevention for the New Millennium. Ralph Wilson Stadium, Orchard Park, NY, February 29, 2008.
- When All Else Fails: From More PT to Surgery. The New York State Chiropractic Association Annual Meeting, D'Youville College, Buffalo, NY, June 28, 2007.
- The Aging Spine: Focus on Prevention. Rochester Spine Study Group, June 15, 2006, Rochester, NY
- The Aging Spine: Focus on Prevention. Kenmore Mercy Hospital Medical Staff Grand Rounds, Kenmore, NY, April 4, 2006.
- The Functional Kinetic Chain: Lecture and Workshop. The Avalon Cole Lecture, University of Virginia, Dept. of Physical Medicine and Rehabilitation, Charlottesville, VA, March 24, 2006.
- The Aging Spine: Focus on Prevention. Presented at The Rehabilitation Institute of Chicago, August 25, 2005.

- The Aging Spine: Focus on Prevention. Presented at The Northeast YMCA for Active Older Adults Week, Amherst, NY, April 26, 2005.
- Functional Exercise: The Key to Extending Your “Health Span” and Preventing Injury; Elmwood Franklin School, Buffalo, New York, April 4, 2005
- Clinical Evaluation of the Lower Extremity: A Kinetic Chain Approach, Musculoskeletal & Sports Medicine: A Biomechanical Approach to the Lower Limb in Function and Dysfunction; University of Washington, Seattle, Washington, April 2, 2005
- A Functional Approach to the Rehabilitation of Lower Extremity Disorders, Musculoskeletal & Sports Medicine: A Biomechanical Approach to the Lower Limb in Function and Dysfunction; University of Washington, Seattle, Washington, April 2, 2005
- The Aging Spine: Focus on Prevention: Emerging Technologies Spine Education Summit, Telluride, Colorado, March 4, 2005
- The Aging Spine: Focus on Prevention, Grand Rounds, University of Rochester, Department of Physical Medicine & Rehabilitation, Rochester, New York, February 10, 2005
- Joint Play of the Wrist and Hand / Treatment of the Container: Upper Quarter, presented to The Hand Therapists of Western New York, Buffalo Spine & Sports Institute, PC, January 7, 2005.
- Functional Joint Mobilization: Integrating Manual Therapy & Exercise, NAAS, October 20, 2004
- The Aging Spine, North American Spine Society Annual Meeting, October 20, 2004
- Overview of Adverse Neurodynamic Tension, St. Vincent’s Sports Medicine, Erie, PA, September 17-18, 2004
- The Gray Areas of McGill: Where Function Meets Science, St. Vincent’s Sports Medicine, Erie, PA, September 17-18, 2004
- The Functional Kinetic Chain: Focus on Prevention, St. Vincent’s Sports Medicine, Erie, PA, May 8, 2004
- The Aging Spine: Focus on Prevention, Erie, PA, May 2004
- Functional Progression: Lower Body, Erie, PA, May 2004
- Functional Retraining: From Reactivation to Performance Enhancement, National Academy of Sports Medicine, Los Angeles, CA, April 2-4, 2004
- The Aging Spine: Focus on Prevention- Your Future, Your Lifestyle, Your Choice: An Alive & Lively Seminar, Sponsored by Buffalo Spine and Sports Institute in conjunction with Blue Cross & Blue Shield of WNY, February 26, 2004
- Joint Play of the Wrist and Hand, Durango, Colorado, March 2004
- Overview of Adverse Neurodynamic Tension, Durango, Colorado, March 2004
- Quality of Movement Assessment – Functional Assessment of the kinetic chain: Six Basic Functional Tests: Durango, Colorado, March 2004
- The Gray Areas of McGill: Where Function meets Science, Durango, Colorado, March, 2004
- Upper Limb Dynamic Neural Tension: Treating the Container, Durango, Colorado, March 2004
- The Functional Kinetic Chain: Focus on Prevention, University of Colorado, Health Sciences Center, Denver, February 13-14, 2004
- The Aging Spine: Focus on Prevention, University of Colorado, Health Sciences Center, Denver, February 13-14, 2004
- Nutrition for Healing, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, October 30, 2003
- The Functional Kinetic Chain: Focus on Prevention, U.B. Sports Medicine Institute, Buffalo, New York, October 21, 2003
- The Aging Spine: Focus on Prevention, Primary Care Summit, Kenmore Mercy Hospital, Buffalo, New York, October 8, 2003
- The Aging Spine: Focus on Prevention, Michael Hage Lecture, Rehabilitation Institute of Chicago, Chicago, Illinois, August 9, 2003

- Functional Based Exercises, Jones Memorial Hospital, Department of Rehabilitation, Wellsville, New York, May 18, 2003
- Assessing Core Muscle Function, Jones Memorial Hospital, Department of Rehabilitation, Wellsville, New York, May 18, 2003
- The Functional Kinetic Chain, Jones Memorial Hospital, Department of Rehabilitation, Wellsville, New York, May 17, 2003
- Rehabilitation Sports Medicine XV, Sports-Specific Functional Rehabilitation: Upper Limb Dominant Sports, Chicago, Illinois, April 24-26, 2003
- Aging of the Spine: Is it Inevitable?, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, April 3, 2003
- Concepts & Principles Regarding Muscle Imbalances, Durango, Colorado, February 2003
- The Functional Kinetic Chain, Durango, Colorado, February 2003
- Hip, Pelvis, Thigh Sports Injuries, combined Fellowship Sports Medicine Lecture Series for Northtowns Orthopedic and Buffalo Spine & Sports Medicine, PC, January 14, 2003
- Scientific Basis of the Physiatric Physical Examination of the Spine: A Functional Approach, combined Fellowship Sports Medicine Lecture Series for Northtowns Orthopedic and Buffalo Spine & Sports Medicine, PC, October 8, 2002
- SUNY at Buffalo, School of Medicine & Biomedical Sciences, Erie County Medical Center, Buffalo, New York, Resident Tutorial, September 25, 2002; October 2, 2002; October 9, 2002
- Joint Play of the Foot & Ankle, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, June 14, 2002
- Joint Play of the Wrist & Hand, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, May, 2002
- Core Muscle Function: Neutral Spine Stabilization vs. Controlled Mobility, 3rd Annual Sports Medicine Symposium, Northtowns Orthopedics, PC, Amherst, New York, May 4, 2002
- Rehabilitation Sports Medicine XIV, Sports-Specific Functional Rehabilitation: Controversies in Running-Related Sports, Chicago, Illinois, December 2001
- Michigan State University, College of Osteopathic Medicine, Faculty – Exercise Prescription as an Adjunct to Manual Medicine, November 7-11, 2001
- Coaches Clinic on Injury Prevention, Nichols School, October 23, 2001
- Scientific Basis of the Physiatric Physical Examination of the Spine: A Functional Approach, Daemen College Physician's Assistant Program, August 10, 2001
- Michigan State University, College of Osteopathic Medicine, Faculty – Exercise Prescription as an Adjunct to Manual Medicine, May 16-20, 2001
- Insuring Good Clinical Outcomes & Reaching Appropriate End Points, Buffalo Claims Association, 10th Annual Educational Seminar Day, with Frederick B. McAdam, MD, May 9, 2001
- Diagnosis and Management of Low Back Pain for the Primary Care Physician, Daemen College, April 2001
- Principles of Differential Diagnosis of Low Back Pain, Daemen College, April 2001
- Functional Evaluation & Treatment of Lower Extremity & Core Muscle Function, Advanced Athletic Training, Canisius College, March 21, 2001
- The Role of Manual Medicine & Exercise in Sports & Industry; Lower Extremity Retraining, sponsored by the Rehabilitation Institute of Chicago, December 7-9, 2000
- The Role of Manual Medicine & Exercise in Sports & Industry; Sensori-motor Retraining / Evaluation of Adverse Neurodynamic Tension – Is it Muscle Tightness or Nerve Tension?, sponsored by the Rehabilitation Institute of Chicago, December 7-9, 2000
- The Role of Manual Medicine & Exercise in Sports & Industry; Lower Quarter / Adverse Neurodynamic Tension Evaluation & Treatment, sponsored by the Rehabilitation Institute of Chicago, December 7-9, 2000
- Evaluation & Treatment of Adverse Neurodynamic Tension in the Nervous System, Daemen College, April 25, 2000

- Physiatric Physical Examination of the Spine: How it Helps in the Rehabilitation Program, Kessler Institute for Rehabilitation, March 30, 2000
- Physiatric Physical Examination of the Spine: How it Helps in the Rehabilitation Program, 16th Annual Physical Medicine & Rehabilitation Update, Park City, Utah, January 30, 2000
- Physiatric Physical Examination of the Spine: How it Helps in the Rehabilitation Program, SUNY @ Buffalo, Department of Rehabilitation Medicine, Buffalo, New York, January 12, 2000
- Complete and Accurate Diagnosis: The Vicious Overload Cycle, Northtowns Orthopedic, Lecture Series, Buffalo, New York, January 4, 2000
- Spinal Disorders: Current Concepts in the Clinical Management of Spine Pathology; Physiatric Physical Examination of the Spine: How it Helps in the Rehabilitation Program, Daemen College, Buffalo, NY, November 19, 1999
- The Functional Approach to Musculoskeletal Medicine: Adverse Neural Dynamic Tension of the Spine and Lower Extremities, Co-chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, October 15-17, 1999
- The Functional Approach to Musculoskeletal Medicine: Gluteal Retraining, Co-chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, October 15-17, 1999
- The Functional Approach to Musculoskeletal Medicine: Mobilization of the Anterior Lower Quarter, Co-chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, October 15-17, 1999
- Exercise & Nutrition, Chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, August 5, 1999
- Exercise & Nutrition, Chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, May 20, 1999
- The Principles and Treatment of Muscle Imbalances in Musculoskeletal and Sports Injuries: The Cervico-Thoracic & Scapular Regions, Course Chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, April 24, 1999
- Michigan State University, College of Osteopathic Medicine, Faculty – Exercise Prescription as an Adjunct to Manual Medicine, Level II, January 1999
- Breaking Down the Walls: The Physical Exam & Treatment of Muscle Imbalances/Neuromobilizations in Musculoskeletal and Sports Injuries: The Lumbo-Pelvic Region, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, December 6, 1998, Course Chairman
- The Physical Examination & Treatment of Muscle Imbalances/Neuromobilizations in Musculoskeletal & Sports Injuries: The Lumbo-Pelvic Region, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, October 24, 1998, Course Chairman
- Prevention of Low Back Pain, Chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, October 1, 1998
- History & Physical Examination of the Lumbo-pelvic Region, presented to Physician Assistant Students, Daemen College, March 27, 1998
- Michigan State University, College of Osteopathic Medicine, Faculty – Exercise Prescription as an Adjunct to Manual Medicine, Level II, January 1998
- Exercise & Exercise Equipment, What You Need to Know Before Buying Another Piece of Exercise Equipment, Chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, December 4, 1997
- Michigan State University, College of Osteopathic Medicine, Faculty – Exercise Prescription as an Adjunct to Manual Medicine, Level I, November 1997
- Physical Examination & Treatment of the Spine: A Practical Approach for the Primary Care Clinician with Emphasis on Muscle Imbalances and Neuromobilizations, sponsored by Buffalo Spine & Sports Medicine, Williamsville, New York, November 15, 1997, Course Chairman
- Level-II: Muscle Imbalances – Emphasis on Combined Craniosacral & Neuromobilization Techniques, Chairman, sponsored by Buffalo Spine & Sports Medicine, Williamsville,

New York, October 25, 1997

- The Rapid Evaluation & Treatment of Musculoskeletal & Spine Injuries: Hip, Pelvis & Thigh Injuries, D'Youville College, presented to physician assistants and nurse practitioners, Buffalo, NY, April 12, 1997
- The Principles & Treatment of Muscle Imbalances & Myofascial Release in Musculoskeletal & Sports Injuries: The Cervical-Thoracic & Scapular Regions, Chairman, Canton, Ohio, April 5, 1997
- Michigan State University, College of Osteopathic Medicine, Faculty – Exercise Prescription as an Adjunct to Manual Medicine, Level I, March 1997
- Muscle Imbalances – Lumbo-pelvic Region, Chairman, sponsored by Buffalo Spine & Sports Medicine, PC, Williamsville, New York, November 1996
- Michigan State University, College of Osteopathic Medicine, Faculty – Exercise Prescription as an Adjunct to Manual Medicine, Level I, September 1996
- The Principles & Treatment of Muscle Imbalances in Musculoskeletal & Sports Injuries: The Lumbo-Pelvic Region, Chairman, sponsored by Buffalo Spine & Sports Medicine, PC, Williamsville, New York, June 1, 1996
- Muscle Imbalances – Cervical, Thoracic Region, Chairman, sponsored by Buffalo Spine & Sports Medicine, PC, Williamsville, New York, May 1996
- The Principles & Treatment of Muscle Imbalances in Musculoskeletal & Sports Injuries: The Lumbo-Pelvic Region – Including Myofascial Release Techniques, Chairman, Canton, Ohio, April 13-14, 1996
- Michigan State University, College of Osteopathic Medicine, Faculty – Exercise Prescription as an Adjunct to Manual Medicine, Level I, March 1996
- Muscle Imbalances – Lumbo-pelvic Region, Chairman, Sponsored by Buffalo Spine & Sports Medicine, PC, Williamsville, New York, November 1995
- Michigan State University, College of Osteopathic Medicine, Faculty – Exercise Prescription as an Adjunct to Manual Medicine, Level I, September 1995
- Michigan State University, College of Osteopathic Medicine, Faculty – Principle of Manual Medicine, June 1995
- Michigan State University Faculty, College of Osteopathic Medicine, – Exercise Prescription as an Adjunct to Manual Medicine, Level I, March 17-19, 1995
- Manual Medicine Course – Course Coordinator, Daemen College, Division of Graduate Physical Therapy, Amherst, New York, 1995 – Present
- Michigan State University, College of Osteopathic Medicine, Faculty – Exercise Prescription as an Adjunct to Manual Medicine – Level I, September 30 - October 3, 1994
- The Sports Medicine of Soccer, Including Lower Extremity & Spine Injuries in Sports, Chairman, Daemen College, August 25, 1994
- Michigan State University, College of Osteopathic Medicine, Faculty – Principle of Manual Medicine, June 1994
- Muscle Imbalances Predisposing to Musculoskeletal Injuries, Grand Round Lecture, Rehabilitation Institute of Chicago, April 6, 1994
- Shoulder Injuries in the Throwing Athlete, Co-Chairman, Daemen College, May 25, 1993
- Rehabilitation Institute of Chicago – Dept. of Rehabilitation Medicine, Spinal Injections, May 13, 1993
- American Back Society Faculty Annual Meeting, Buffalo, New York, May 1993
- Michigan State University, College of Osteopathic Medicine, Faculty – Principle of Manual Medicine, December 1992
- American Back Society Faculty Annual Meeting, New Orleans, LA, May 1992
- Michigan State University, College of Osteopathic Medicine, Faculty – Principle of Manual Medicine, December 1991
- Rehabilitation Institute of Chicago – Dept. of Rehabilitation Medicine, December 6, 1991, Athletic Injuries of the Hip, Pelvis & Thigh
- American Academy of Physical Medicine & Rehabilitation – Faculty Annual Meeting – Selected Lower Extremity Injuries in Sports, Washington, D.C., October 27-31, 1991



- U.B. Alumni Dental Annual Meeting, Low Back Pain in the Dental Profession, Buffalo, New York, September 26, 1991
- American Back Society Faculty Annual Meeting, Toronto, Ontario, Canada, May 1-5, 1991
- Mechanical Disorders of the Pelvis/Sacroiliac Region, Course Co-Chairman/Lecturer: Muscle Imbalances, Williamsville, NY, November 3, 1990
- Orthopedic Evaluation of the Upper Extremity: Shoulder Impingement, November 2, 1990, Sponsored by the Occupational Therapy Association
- Principles of Manual Medicine and Muscle Energy Technique – Philip Greenman, DO, October 5-8, 1990, Williamsville, NY, Course Co-Coordinator and Instructor
- Non-operative Treatment of Lumbar HNP/Radiculopathy. Grand Rounds, Neurosurgery, September 13, 1990
- Spinal Orthotics – Course Co-Chairman and Lecturer in Cervical Lumbar Orthoses and Spine Stabilizing Exercises, April 19-21, 1989
- Spine Stabilizing Exercises – Grand Rounds – SUNY-Buffalo, Department of Rehabilitation Medicine, February 23, 1989
- The Role of the Physiatrist as the Primary Care Physician in the Management of Low Back Pain – Grand Rounds – SUNY-Buffalo, Department of Rehabilitation Medicine, November 19, 1988
- Functional Anatomy and Biomechanics of the Lumbar Spine – Grand Rounds – SUNY/Buffalo, Department of Rehabilitation Medicine, August 12, 1988
- Differential Diagnosis of Low Back Pain and Sciatica. A Challenge to the Primary Care Physician – Grand Rounds – Family Practice Residents, Niagara Falls Memorial Medical Center, February 5, 1988 and Internal Medicine Resident – Buffalo Mercy Hospital, April 21, 1988
- Correlation of Physical Exam, EMG and CT in Cervical Radiculopathy (Myofascial Pain as Pseudoradiculopathy), December 30, 1987
- SUNY at Buffalo – Department of Neurology – Grand Rounds, Aggressive Conservative Management of Low Back Pain, September 30, 1987
- Lumbar Spine Disorders: Topic – The Non-discogenic Causes of Back Pain and Sciatica, sponsored by Independent Health, September 16, 1987
- Physical Medicine and Rehabilitation Principles in the Diagnosis and Treatment of Low Back Pain, Western New York Nurse Practitioners Association, June 1, 1987
- Osteoporosis: Topic – Rehabilitation Principles in Osteoporosis, Buffalo General Hospital, October 1986
- SUNY at Buffalo Departments of Rehabilitation Medicine, Neurosurgery, Geriatric Medicine, Family Medicine and Internal Medicine in Selected Topics in Musculoskeletal Medicine, 1985 – Present

### **Community Service**

- Amherst Soccer Association Coach, U12 Boys – 1992 – 2002
- AthletiCare – Team Physician for Gus Macher and Jumping Jack Basketball Tournaments – 1992 & 1993
- Volunteer Physician for World University Games – Buffalo, New York – 1993
- Arthritis Foundation of Western New York
- Board of Directors 1989 – 1991
- Telethon 1989
- Speaker at self-help groups
- Lectures to the public through local hospitals and community groups:
  - The Aging Spine: Focus on Prevention. The Buffalo Rehab Group-YMCA. Williamsville, NY, January 15, 2015
  - The Aging Spine: Focus on Prevention. The Buffalo Rehab Group 2100 Union Rd., West Seneca, NY, February 18, 2015

- The Aging Spine: Focus on Prevention. The Buffalo Rehab Group-YMCA and Family Center Williamsville, NY, January 15, 2014.
- The Aging Spine: Focus on Prevention. Chautauqua Physical and Occupational Therapy. Jamestown, NY, December 4, 2013.
- The Aging Spine: Focus on Prevention @ YMCA and Family Center. February 20, 2013.
- The Aging Spine: Focus on Prevention. Presented at The Northeast YMCA for Active Older Adults Week, Amherst, NY, April 26, 2005.
- Functional Exercise: The Key to Extending Your “Health Span” and Preventing Injury; Elmwood Franklin School, Buffalo, New York, April 4, 2005.
- The Aging Spine: Focus on Prevention @ The Century Park Men’s Club, October 4, 2005.
- The Aging Spine: Focus on Prevention @ The Northeast YMCA – Active Older Adult Week, April 26, 2005.
- Functional Exercise: The Key to Extending Your ” Health Span”, Presented to the Faculty of the Elmwood Franklin School. April 4, 2005.
- Frailty, presented at Buffalo Spine & Sports Institute, February 2005.
- The Aging Spine – Focus on Prevention, presented at Buffalo Spine & Sports Institute, February 26, 2004.
- Nutrition and healing, presented at Buffalo Spine & Sports Institute, October 31, 2003.
- Preparing for Ski Season: Functional Training, presented to the Kissing Bridge Ski School Instructors, Colden, New York, November, 2003
- Exercise & Nutrition, for the community, presented semi-annually at Buffalo Spine & Sports Medicine, PC
- Coaches Clinic on Injury Prevention, Nichols School, Buffalo, New York, October 23, 2001
- Insuring Good Clinical Outcomes & Reaching Appropriate End Points, Buffalo Claims Association, 10<sup>th</sup>Annual Educational Seminar Day, Buffalo, New York, May 9, 2001
- Athletic Injury Prevention: Is Stretching More Important Than Strengthening? Including: Assessment of Proper Muscle Balance, How to Stretch Muscle Properly, When to Stretch, presented at West Seneca Education Center to high school coaches, March 26, 1998
- Preparation for Ski Season: Including: Preventing Injuries, Combining Flexibility, Strength & Coordination, presented at Century-Airport Pediatrics, October 28, 1997
- Athletic Injury Prevention: Is Stretching More Important Than Strengthening? Including: Assessment of Proper Muscle Balance, How to Stretch Muscle Properly, When to Stretch, presented at Century-Airport Pediatrics, June 11, 1997
- Youth Soccer Injuries: Including: Head Balls and Head Injuries — Are Our Children at Risk?, Proper Stretching Techniques for Injury Prevention, presented at Century-Airport Pediatrics, February 6, 1997
- How Objective are “Objective” Tests – Corporate Health Seminar, University Inn Conference Center, November 16, 1993