

**9 July 2008**

**Jeff Houck, PT, PhD**  
**Associate Professor**  
**Ithaca College –Rochester Campus**  
**1100 South Goodman St**  
**Rochester, New York 14620**  
**(585) 340-9619**  
**jhouck@ithaca.edu**

**Education:**

|  |           |
|--|-----------|
| Graduate Program in Physical Therapy.<br>University of Iowa. Iowa City, IA.<br>Earned Ph. D. in Physical Therapy December (Musculoskeletal Focus). | 1996-1999 |
| Graduate Program in Physical Therapy.<br>University of Iowa. Iowa City, IA.<br>Earned M. A. in Physical Therapy                                    | 1994-1996 |
| Virginia Commonwealth University/Medical College of Virginia.<br>Richmond, VA.<br>Earned B. S. in Physical Therapy                                 | 1985-1987 |

**License:**

New York State Physical Therapy License #020931-1  
New York State Department of Education Registration Certificate # 5299152

**Employment:**

|               |   |
|---------------|---|
| 2007-Present  | Adjunct Assistant Professor, Department of Orthopedics, University of Rochester   |
| 2007 (spring) | Visiting Professor, Penn State University   |
| 2005-Present  | Associate Professor Ithaca College, Department of Physical Therapy.   |
| 2003-Present  | Adjunct Assistant Professor, School of Nursing, University of Rochester   |
| 2002-Present  | Adjunct Assistant Professor, Department of Biomedical Engineering, University of Rochester  |
| 1999-2004     | Assistant Professor Ithaca College, Department of Physical Therapy.   |
| 1996-1998     | Instructor, Human Anatomy. The University of Iowa. Iowa City, IA.   |
| 1994-1999     | Graduate Assistant. Applied Biomechanics Laboratory, Graduate Program in Physical Therapy. The University of Iowa. Iowa City, IA. |
| 1987 – 1993   | Physical Therapist. Worked in various practice settings in Japan and the United States specializing in orthopedic rehabilitation. |

**Professional Activities:**

Reviewer National Institute of Health (NIH), National Center for Research Resources (NCRR), Center of Biomedical Research Emphasis (COBRE) Review Special Emphasis Panel (ZRR1-RI-5(01) November 9-10<sup>th</sup>, 2006.

**Awards/Invited Commentaries:**

Paper selected for reprint in the Year Book of Sports Medicine 2004  
**Houck, J., Gushue, D., Lerner, A., Yack, H. J.** Case Study of a Subject that Experienced Giving Way During Stepping Down. *Journal of Orthopedic & Sports Physical Therapy*, 33(5): 273-284, 2003.

**Merit Awards**

Received Dean Merit Awards in 2001 & 2003 from the School of Health and Human Performance, Ithaca College.

## **Publications Submitted or In Review**

**Houck, J**, Neville, CG, Flemister, AS. Standing Medial Longitudinal Arch Angles Using Radiographs and a Multisegment Foot Model in Subjects with Posterior Tibial Tendon Dysfunction. *Gait & Posture* (Submitted)

Neville, C.; Flemister, A.; **Houck, J**. Effect of the AirLift PTTD Brace on Foot Kinematics in subjects with Stage II Posterior Tibial Tendon Dysfunction. Submitted *Journal of Orthopedic and Sports Physical Therapy* (Under review)

## **Publications (Peer Reviewed)**

Neville, C; Flemister, A.; Tome, J.; **Houck, J**. Ankle and Foot Kinematics in Subjects with stage II PTTD during the Stance Phase of Gait. *Foot & Ankle International* (In Press)

**Houck, J**; Nomides, C, Neville, C. The effect of Stage II Posterior Tibial Tendon Dysfunction on Deep Compartment Muscle Strength: A New Strength Test. *Foot & Ankle International* (In Press)

Neville, C, Flemister, AS, **Houck, JR**. Science Behind use of Orthotic Devices to Manage Posterior Tibial Tendon Dysfunction. In press *Techniques in Foot & Ankle Surgery*

Houck J, Tome J, **Nawoczenski DA**. Subtalar Neutral Position as an Offset for a Kinematic Model of the Foot during Walking. *Gait and Posture* 28(1): 29-37, 2008

Neville, CG, Flemister, SA, Tome, J, **Houck, J**. Comparison of Changes in Posterior Tibialis Muscle Length between Subjects with Posterior Tibial Tendon Dysfunction and Healthy Controls during Walking. *Journal of Orthopedic and Sports Physical Therapy* 37(11):661-669, 2007

Flemister, AS, Neville, C, **Houck, J**. The Relationship among Ankle, Hindfoot and Forefoot Position and Posterior Tibialis Muscle Length. *Foot & Ankle International* 28(4): 448-455, 2007

**Houck JR**. Wilding GE. Gupta R. De Haven KE. Maloney M. Analysis of EMG patterns of control subjects and subjects with ACL deficiency during an unanticipated walking cut task. *Gait & Posture*. 25(4):628-38, 2007

**Houck, J**, De Haven, KE, Maloney, M, Duncan, A. Influence of Anticipation and Task on Movement Patterns in Subjects with ACL Deficiency Classified as Non-Copers. *Journal of Orthopedic and Sports Physical Therapy* 37(2):56-64, 2007

Tome, JM, Flemister, S, Nawoczenski, D, **Houck, J**. Comparison of Foot Kinematics between Subjects with Posterior Tibial Tendon Dysfunction and Healthy Controls. *Journal of Orthopedic and Sports Physical Therapy* 36(9): 635-644, 2006

Puzas, EJ, **Houck, J**, Bukatta, SV. Accelerated Fracture Healing. *Journal of American Academy of Orthopedic Surgeons*. 14(10):S145-S151, 2006

**Houck, J**, De Haven, K., Duncan, A. Comparison of frontal plane trunk kinematics and hip and knee moments during anticipated and unanticipated walking and side step cutting tasks. *Gait & Posture* 24(3):314-322, 2006

Gushue, DL, **Houck, J**, Lerner, AL. Effects of Childhood Obesity on Three-Dimensional Knee Joint Biomechanics during Walking. *Journal of Pediatric Orthopedics* 25(5):1-6, 2005

**Houck, J**, Duncan, A, De Haven, K. Knee and Hip Angle and Moment Adaptations during Cutting Tasks in Subjects with ACL Deficiency Classified as Non-Copers. *Journal of Orthopedic and Sports Physical Therapy*, 35(8):531-540, 2005

Gushue, D., **Houck, J**, Lerner, AL, Rabbit Knee Joint Biomechanics: Motion Analysis and Modeling of Forces during Hopping. *Journal of Orthopedic Research* 23(4):735-42, 2005

**Houck, J** and Yack, H. J. Validity and Comparisons of Tibiofemoral Angles and Translations using a New Femoral Tracking Device (FTD) during Walking. *Gait & Posture*, 19: 76-84, 2004.

**Houck, J** and Yack, H. J. Associations of Knee Angles, Moments and Function among Subjects that are Healthy and Anterior Cruciate Ligament Deficient (ACLD) during Straight Ahead and Crossover Cutting Activities. *Gait & Posture* 18, 126-138, 2003.

**Houck, J.**, Gushue, D., Lerner, A., Yack, H. J. Case Study of a Subject that Experienced Giving Way During Stepping Down. *Journal of Orthopedic & Sports Physical Therapy*, 33(5): 273-284, 2003.

Lerner, AL, Tamez-Pena, J, **Houck, J**, Yao, J, Harmon, H, Salo, AD, Totterman, S. A System for Tracking Kinematics of the Human Knee with Sequential MR Image Sets: Accuracy of Coordinate Systems and Motion Tracking. *Journal of Biomechanical Engineering* 125(4): 1-8, 2003.

**Houck, J.** and H. J. Yack. Case Study of ACL deficient subject that Experienced “Giving Way” during a Crossover Cutting Activity. *Journal of Orthopedic and Sports Physical Therapy* 31(9): 481-495, 2001.

**Houck, J.** Muscle Activation Patterns of Selected Lower Extremity Muscles during Stepping and Cutting Tasks. *Journal of Electromyography and Kinesiology* 13: 545-554, 2003.

Bilodeau, M., **Houck, J.**, Cuddeford, T., Gaitonde, S., Riley, N. Variations in the Relationship between the Frequency Content of EMG Signals and the Rate of Torque Development in Voluntary and Elicited Contractions. *Journal of Electromyography and Kinesiology* 12: 147-155, 2002.

#### **Non-Peer Reviewed Publications**

##### **Invited Commentary for Physical Therapy Journal.**

Article: Chmielewski TL, Hurd WJ, Rudolph KS, et al. Perturbation training improves knee kinematics and reduces muscle co-contraction after complete unilateral anterior cruciate ligament injuries. *Phys Ther.* 2005;85:740-754. Commentary: **Houck, J.** *Phys Ther.* 2005; 85:755-756.

##### **Published Abstracts (Peer Reviewed)**

Kneiss, J, Bukata, S, Puzas, E., **Houck, J.** Instrumented Sit To Stand With Arms As A Functional Measure For Subjects with Hip Fracture. Gait & Clinical Movement Analysis Conference, Richmond, VA April 2008.

Neville, C; Flemister, A; **Houck, J.** Comparison of the clinical Heel Rise test in subjects with Stage II PTTD and Healthy Controls. APTA Combined Sections Meeting, Nashville, TN 2008. Podium Presentation

Neville, C, Flemister, A, **Houck, J.** Effect of the AirLift PTTD Brace on Foot Kinematics in subjects with Stage II Posterior Tibial Tendon Dysfunction, APTA Combined Sections Meeting, Boston, MA, 2007. Podium Presentation

\*Neville, C, Flemister, A, Tome, J, **Houck, J.** Sagittal Plane Ankle and Midfoot Kinematics in Subjects with stage II PTTD during the Stance Phase of Gait. American Orthopaedic Foot and Ankle Society. Summer Meeting. Toronto, CAN 2007. Podium Presentation.

Christopher Neville, Judith Baumhauer, Adolf Flemister, Josh Tome and **Jeff Houck.** Effects of Bracing and Strengthening Exercise on Foot Kinematics and Function in Subjects with Stage II PTTD. American Orthopedic Foot & Ankle Society, Summer Meeting, Toronto, July, 2007.

Candace Nomides, Christopher Neville, Adolf Flemister, and Jeff Houck, Deep Compartment Muscle Strength in Subjects with Stage II PTTD. Gait & Clinical Movement Analysis Society. Annual Meeting, Springfield, MA, 2007

Christopher Neville, Adolf Flemister, Josh Tome and Jeff Houck, Effect of the AirLift PTTD Brace on Foot Kinematics in subjects with Stage II Posterior Tibial Tendon Dysfunction (PTTD). Combined Sections Meeting American Physical Therapy Association, Boston MA. 2007.

Neville, CG, Flemister, SA, Tome, J, **Houck, J.** The Effect of Hindfoot and Forefoot Positions on Posterior Tibialis Muscle Length. International Society of Biomechanics Annual Meeting, Cleveland, OH, August, 2005.

**Houck, J,** Green, A, Baxendale, A, Dehaven. Ankle Plantar Flexor Moments Scale to Planning Time during Unexpected Side Step Cut Tasks. International Society of Biomechanics Annual Meeting, Cleveland, OH, August, 2005.

Gushue, DL, Lerner, AL, **Houck, J.** Analysis of Knee Joint Biomechanics and Joint Contact Forces In Overweight Children. Proceedings GCMAS annual meeting, Portland, OR 2005.

**Houck, J,** De Haven, K., Maloney, M. Electromyography Pattern Analysis of Knee Muscles during Expected and Unexpected Side Step Cut Tasks. Proceedings GCMAS annual meeting, Portland, OR 2005.

Flemister, A, Tome, J., **Houck, J.,** Nawoczenski, D. The Effect of Posterior Tibial Tendon Dysfunction on Dynamic Foot Motion. AOFAS Annual Meeting, 2005

Tome, J., Flemister, A, **Houck, J.,** Nawoczenski, D. The Effect of Posterior Tibial Tendon Dysfunction on Dynamic Foot Motion. Proceedings GCMAS annual meeting, Portland, OR 2005

S. Becerra, L. Cregan, J. Kelly, A. Vincet, Gushe, D., Lerner, A., **Houck, J.R.** Effects of Childhood Obesity on Three-Dimensional Knee Joint Biomechanics During Walking. Combined Sections Meeting APTA February, 2005

**Houck, JR**, Bigham, S, Cruz, P, Vanderhoof, M, McCann, L, Ward, C, De Haven, K, Duncan, A. Gastroc-Soleus Muscle Activation and its Association to Ankle and Knee Moments during Expected and Unexpected Side Step Cut Tasks. American Society of Biomechanics Annual Meeting, Portland, OR, September, 2004.

**Houck, J**, Bigham, S, Cruz, P, Vanderhoof, M, McCann, L, Ward, C, De Haven, K, Duncan, A. Gastroc-Soleus Muscle Activation and its Association to Ankle and knee Moments during Expected and Unexpected Side Step Cut Tasks. Proceedings of the American Society of Biomechanics, Portland, OR Sept 2004. Poster #341

Tome, J., **Houck, JR.**, Nawoczenski, D., Reliability of Determining an Anatomic Zero and its Effect on Dynamic Foot Motion, Proceedings GCMAS 9<sup>th</sup> annual meeting, Lexington, KT April, pp. 54-55, 2004

**Houck, JR**, and Gorniak, S. Frontal Plane Trunk and Lower Extremity Biomechanics during Walking Anticipated and Unanticipated Side Step Cut Tasks: Implications for Knee Injury Prevention. Proceedings GCMAS 9<sup>th</sup> annual meeting, Lexington, KT April, pp. 200-201, 2004

Nawoczenski DA, **Houck JR**, Barnes E. Functional hallux limitus in the pronated foot: challenge to current theory. J Orthop Sports Phys Ther 33:A-12, 2003

Wall AE, **Houck JR**, Nawoczenski DA. Alterations in foot center of pressure in different foot types. J Orthop Sports Phys Ther 33:A-43, 2003

Zablontny, CM, **Houck, J**, Miller, GD. Effect of Body Weight Support Treadmill Training on Kinematic, Kinetic and Outcome Measures of Hemiparetic Gait: A Single Subject Design. Proceedings Gait and Clinical Movement Analysis Society 8<sup>th</sup> Annual Meeting, Wilmington, DE, May, pp. 207-208, 2003.

**Houck, JR**, De Haven, K, Duncan, A. Comparison of Lower Extremity Kinematics and Kinetics of ACL Deficient and Healthy Subjects during different Cut Tasks. Proceedings Gait and Clinical Movement Analysis Society 8<sup>th</sup> Annual Meeting, Wilmington, DE, May, pp. 71-72, 2003.

**Houck, JR**, Hanford, S. Foot Landing Strategies Affect Knee Biomechanics during Side Step Cut Tasks. J Orthop Sports Phys Ther 33(8): A-23, 2003.

Nawoczenski, D. A., **Houck, J. R.**, Barnes, E. Use of an Inter-segment Foot Model to Describe Kinematic Coupling Between the First Metatarsal Phalangeal Joint and the Rearfoot in Normal and Excessively Pronated Feet. Proceedings International Congress of Biomechanics, Calgary, CAN, August, 2002

Gushue, D., Lerner, A., **Houck, J.** Analysis of Muscle and Joint Contact Forces in an ACL-Deficient Subject during a Giving Way Episode Occurring while Stepping Down. Gait & Posture 16 (Suppl. 1) pp. S93 – S94, 2002.

**Houck, J.**, De Haven, K., Duncan, A. Comparison of Knee Angles and Moments of ACL Deficient Subjects during a Straight Ahead and Side Step Cut Task. Gait & Posture 16 (Suppl. 1) pp. S46 – S47, 2002.

Hanford, S., **Houck, J.** Foot Landing Strategies Effect Lower Extremity Transverse Plane Angles and Moments during a Side Step Cutting Task. Gait & Posture 16 (Suppl. 1) pp. S82 – S83, 2002.

Lerner, A. L., Tamez-Pena, J., **Houck, J.**, Yao, J., Harmon, H., Salo, A., Totterman, S. A System for Tracking Knee Kinematics with Sequential MR Images: Accuracy of Coordinate Systems and Motion Tracking. Proceedings 48<sup>th</sup> Annual Meeting Orthopedic Research Society, Feb 10-13<sup>th</sup>, 2002, Dallas, TX.

Wahi, R., Yack, H. J., **Houck, J. R.** Do Gender differences in Knee Joint Kinematics and Kinetics Contribute to the Gender Disparity in ACL Injury Rate? A Preliminary Study using Cluster Analysis. Clin Biomech, 2001; 16(10): 957-958.

Toporek, P., Daniello, J., Abraham, B., Banks, K., Dembeck, A., Goldman, S., Harop, E., **Houck, J.R.** Outcomes Following Mobilization combined with Heat in a Patient Status Post Proximal Humerus Fracture: Single Subject Design. NYAPTA Annual Meeting, Saratoga, NY 2001.

Bergeron, K., Huson, M., Keisling, B., Manzer, L., **Houck, J. R.**, Reliability of points selected from Knee MR Images for Establishing Reference Frames. Proceedings American Society of Biomechanics, San Diego, CA. 2001; pp.453-454.

**Houck, J.** Muscle Activation Patterns during Combined Stepping and Cutting Tasks. Proceedings American Society of Biomechanics. , San Diego, CA. 2001; pp. 200-201.

**Houck, J.**, Yack, H. J. Changes in Knee Kinematics and Kinetics in Chronic ACL deficient Subjects during Stance of Straight Ahead and Crossover Cutting Activities. Gait & Posture 2001; 13(3):265-266.

DiCarlo, C., Moehle, J, Nizer, J., Platys, S., Sicolla, C., Callan-Harris, S., **Houck, J.** Dynamic versus Static Stretching Techniques to Enhance the Height of Developpe Font in Classic Ballet Dancers. J Orthop Sports Phys Ther 31(1): A-35, 2001

**Houck, J.**, Yack, H. J., Snyder, M. Case Study of the Kinematics and Kinetics of an ACL Deficient Subject that Experienced “Giving Way” during a Stepping Down Task. Archives of Physiology and Biochemistry 108(1/2):2, 2000.

**Houck, J.**, Yack, H. J., Taibe, K. Comparison of Lower Extremity Joint Angles, Moments and Powers among Straight Ahead and Crossover Cutting Tasks. Archives of Physiology and Biochemistry 108(1/2): 126, 2000.

**Houck, J. R.** and H. J. Yack. Changes in Sagittal Plane Knee Kinematics and Kinetics in Chronic ACL Deficient Subjects during Early Stance of Straight Ahead and Crossover Cutting Activities. Gait & Posture 11(2): 118- 119, 2000.

**Houck, J. R.** and H. J. Yack. Case Study of an ACL Deficient Subject Who Experienced ‘Giving Way’ during a Crossover Cutting Activity. Gait & Posture 11(2): 141, 2000.

Yack, H. J., **Houck, J. R.**, and T. Cuddeford. Measuring 3D Knee Motion with Surface Markers, It can be done. Gait & Posture 11(2): 148 – 149, 2000.

**Houck, J. R.** and H. J. Yack. Reliability of Knee Angles and kinetics during a Stepping Down and Cutting Activity. Gait & Posture 11(2): 149-150, 2000.

R. Wahi, H. J. Yack and **J. R. Houck**. Gender Differences in Three Dimensional Joint Biomechanics in ACL –Deficient Individuals. Gait & Posture 11(2): 142, 2000.

**Houck, J.** and H. J. Yack, Comparison of Transverse Plane Kinematics During Gait and a Crossover Cut. Proceedings International Society of Biomechanics, Calgary, CAN, July, pg. 508, 1999.

Cuddeford, T., H. J. Yack, **Houck, J.**, Repeatability of Kinematic and Kinetic Data During Running. Proceedings International Society of Biomechanics, Calgary, CAN, July, pg. 765, 1999.

**Houck, J.**, Yack, H.J., Cuddeford, T., Comparison of Knee Kinematics and Moments using Two Thigh Tracking Strategies During Gait. Proceedings International Society of Gait and Posture, Waterloo, CA, June, 1999.

**Houck, J.**, Yack, H. J., Cuddeford, T. Comparison of Two Thigh Marker Systems in Determining Tibiofemoral Motion During Hip Internal/External Rotation, Proceedings North American Congress on Biomechanics, pp. 177, 1998.

Cuddeford, T., **Houck, J.**, Yack, H. J., Bilodeau, M. Relationship between the Medial Hamstrings and Knee Function during Jogging in Subjects with Deficient Anterior Cruciate Ligaments. Proceedings XII International Society of Electromyography and Kinesiology Congress, pp. 228, 1998.

**Houck, J.**, Cuddeford, T., Bilodeau, M. Relationship between the EMG Mean Power Frequency and Rate of Isometric Torque Development in Voluntary Contractions. Proceedings XII International Society of Electromyography and Kinesiology Congress, pp. 26, 1998.

**Houck, J.**, Yack, H. J., Kestel, L., Tearse, D. Kinematics and Kinetics of Walking in Low and High Functioning ACL Deficient Subjects. Gait & Posture, 7(2): 183, 1998.

Cuddeford, T., Yack, H. J., **Houck, J.**, Kestel, L., Tearse, D. Preliminary Kinetic Data on Subjects with ACL Deficient Limbs During Single Legged Hopping: A Comparison Between Low and High Functioning Subjects. Gait & Posture, 7(2): 183 – 184, 1998.

**Houck, J.**, Yack, H. J., Mulhausen, P. Neck Mobility: The Influence of Age and a History of Neck Pain. Gait and Posture, 5(2): 184, 1997.

Yack, H. J., Shields, R. K., Massaros, A. J., **Houck, J.** Gait Changes Following Eccentric and Concentric Fatigue Protocols of the Quadriceps - Pilot Study. Proceedings Canadian Society of Biomechanics, 9th Biennial Conference, pp. 208, 1996.

**Houck, J.**, Yack, H. J., A Comparison of the Instantaneous Center of Head Movement on a Fixed Trunk in the Sagittal Plane of Young and Elderly Subjects. Proceedings Canadian Society of Biomechanics, 9th Biennial Conference, pp. 340, 1996.

***Grant Activity:***

***Current***

Project Title: Effect of Bracing and Strengthening Exercise on PTTD

Sponsor: NIH NIAMS 1R15AR054507-01A1

Role: Primary Investigator

Dates: Fall, 2007-Fall, 2010

Award: \$ 209, 000

Project Title: Effect of Taraparotide on Functional recovery after Pelvic Insufficiency Fractures

Sponsor: National Institute of Health (NIH) Center of Research Translation (CORT)

Role: Co-Investigator

Dates: January, 2007-December, 2012

Award: \$ 750, 000 (subcontract: \$ 209, 000)

***Completed***

Project Title: Effect of Bracing and Strengthening Exercise on PTTD

Sponsor: American Orthopedic Foot & Ankle Society (AOFAS) Grant, Louis A. Goldstein Award

Role: Primary Investigator (AOFAS), Co-investigator (Goldstein Award)

Dates: April, 2006-April, 2007 (AOFAS), Jan 2007-Dec 2007 (Goldstein Award)

Award: \$ 10, 000 (AOFAS), \$ 60, 000 (Goldstein Award)

Project Title: “Associations of motor control strategies and function of subjects that are ACL deficient during expected and unexpected cut tasks.”

Whitaker Foundation Research Grant Award

Role on Project: Primary investigator

Dates: Sept. 2003 – Dec. 2005

Award: \$ 143, 915

Project Title: “Development of a femoral tracking device to improve knee kinematic recordings during walking.”

Source: National Science Foundation NSF BES# 99-02340

Role on Project: Research Assistant

Dates: June 1998 – June 1999

Award: \$ 100, 000

**Industry Projects**

Project Title: Assessment of new shoe during gait using lower extremity EMG

Sponsor: Reebok, Int.

Dates: February 2008

Award: \$ 4,000

***Associated Research Activities (Completed)***

Project Title: “University of Rochester Research for Undergraduates in Biomechanics and Imaging Program (RUBI).”

Source: National Science Foundation NSF 00-107 Research Experiences for Undergraduates

Role on Project: Faculty Mentor

Dates: Summer 2001-Summer 2003

***Presentations/Seminars:***

*“Teaching & Performing Grade V Mobilization: An Evidence Based Approach.”*

Recruited David Selkowitz, PhD, PT to teach this seminar, collaborated on the curriculum and assisted with laboratories.

Ithaca College – Rochester Center

June/July 2008\

*“Deficiencies in Sit to Stand Task in Subjects S/P Hip Fracture Discharged from Physical Therapy”*

University of Rochester Medical Center – Highland Hospital

April 2008

*“Overview of Kinematic Assessment of Joint Function for Orthopedic Medical Residents.”*

University of Rochester

March 2008

*“Lower Extremity Tendinopathies: From Mechanisms to Interventions.”*

American Physical Therapy Association, Combined Sections Meeting, Nashville, TN

A collaboration between Ithaca College, University of Southern California and University of Rochester.

February, 2008

*“Orthopedic Update”*

New York Finger Lakes Chapter Meeting

Ithaca College – Rochester Center

December 5, 2007

*“Posterior Tibial Tendon Dysfunction (PTTD): The Effects of Exercise on Foot Biomechanics, Muscle Morphology and Outcomes.”*

USC Division of Biokinesiology & Physical Therapy Seminar Series

Thursday, November, 2007

*“Using Clinical Trials and Biomechanics to Advance Evidence Based Practice of Posterior Tibial Tendon Dysfunction.”*

American College of Sports Medicine – Mid-Atlantic Regional Chapter

Harrisburg, PA

November, 2007

*“Posterior Tibial Tendon Dysfunction (PTTD): The Effects of Exercise on Foot Biomechanics, Muscle Morphology and Outcomes.”*

State University of New York, Buffalo

Buffalo, NY

October, 2007

*“Orthopedic Update”*

New York Finger Lakes Chapter Meeting

Ithaca College – Rochester Center

November, 2006

*“Tendon Injuries in Sports”*

Complete Foot Care Course  
American Orthopedic Foot and Ankle Society  
Rochester, NY  
April, 2005

*“Hip Biomechanics during Gait”*

Canandaigua Sports Medicine Seminar  
Thompson Health  
Rochester, NY  
March, 2005

*“Dynamic Knee Stability and Ligament Injury Mechanisms”*

New York State Athletic Training Association  
Rochester, NY  
May, 2004

*“Knee Ligament Injury Mechanisms”*

Knee Education Group  
Combined Sections Meeting, American Physical Therapy Association (APTA), Nashville, TN, February, 2004

*“Preliminary data on Unexpected Tasks of Healthy subjects”*

Sports Medicine Journal Club  
University Sports Medicine  
October, 2003

*“Dynamic Knee Stability after ACL Rupture”*

Knee Education Group  
Combined Sections Meeting, American Physical Therapy Association (APTA), Tampa Bay, Florida, February, 2003

*“Single Subject Designs: Getting Involved in Clinical Research”*

Ithaca College-Rochester Campus  
February, 2001

*“Dynamic Stability After an ACL Rupture”*

University Sports Medicine  
October 14<sup>th</sup>, 2001

*“Case Studies of Motor Control Patterns Exhibited by ACL Deficient Subjects”*

University Sports Medicine  
November 19<sup>th</sup>, 2001

*“Presentation/Discussion of Gait Parameters used for Rehabilitation”*

University of Rochester, Center for Future Health  
April 27<sup>th</sup>, 2000

*“Gait Analysis in Rehabilitation”*

Guest Lecturer Biomedical Engineering  
University of Rochester, January, 2000

***Continuing Education:***

- 2008 13<sup>th</sup> Annual Clinical Gait and Movement Analysis Society, Richmond, VA
- 2008 Combined Section Meeting APTA, Nashville, TN
- 2007 12<sup>th</sup> Annual Clinical Gait and Movement Analysis Society, Springfield, MA
- 2007 Combined Section Meeting APTA, Boston, MA
- 2006 ACL Research Retreat III, Lexington, KY
- 2006 Combined Section Meeting APTA, San Diego, CA
- 2005 10<sup>th</sup> Annual Clinical Gait and Movement Analysis Society, Portland, OR
- 2005 Combined Section Meeting APTA, New Orleans, LA
- 2005 Common Foot and Ankle Problems, AOFAS, Rochester, NY
- 2004 New York State Athletic Training Association Meeting, Rochester, NY
- 2004 9<sup>th</sup> Annual Clinical Gait and Movement Analysis Society, Lexington, KY
- 2004 Combined Section Meeting APTA, Nashville, TN
- 2003 NIH Workshop: Pediatric and Adult Foot and Ankle: New Horizons in Clinical Treatment and Innovative Technology, Bethesda, MD
- 2003 Summer Institute: Teaching Evidence Based Practice in Rehabilitation Professional Curricula, Boston University, Boston, MA
  
- 2003 8<sup>th</sup> Annual Clinical Gait and Movement Analysis Society, Wilmington, DE
- 2003 ACL Research Retreat II: Gender Issues, Lexington, KY
- 2003 Combined Sections Meeting, APTA, Tampa Bay FL
- 2002 7<sup>th</sup> Annual Clinical Gait and Movement Analysis Society, Chattanooga, TN

***Society Membership:***

**Societies**

Gait and Clinical Movement Analysis Society  
(GCMAS)

**Membership**

1999 to 2008

**Committees**

Education Committee Member  
Spring 2000 to Present  
Education Committee Chair 2004  
to Present

International Society of Biomechanics

1999 to present

Foundation of Physical Therapy  
Scientific Review Committee

2008

American Physical Therapy Association  
(APTA) –Orthopedics Section – Abstract  
Reviewer – CSM 2009

Summer 2008

American Physical Therapy Association  
(APTA) –Section on Research – Biomechanics  
Special Interest Group

2006 to present

member

American Physical Therapy Association –  
Section on Research (SOR)

2006 to present

Awards Committee

American Physical Therapy Association

1987 to present

Knee Education Group from  
Winter 2002 to present

## **College, Professional and Local Service Contributions**

### ***College***

Policies & Procedures Committee (2002- 2007)

Integrated the Boyer model of scholarship with the department goals and all college handbook

Transitional Doctor of Physical Therapy (tDPT) Task Force (2000 – 2005). Became Chair Jan 2004. This task force developed the curriculum for the tDPT degree, which was approved by the faculty May 2004

Member, Department Personal Action Committee, (Fall, 2007)

Chair Department Administrative Review, Chair, (Jan, 2006)

Chair Departmental Personnel Action Review Committee (DPARC) (Summer 2003)

Chair Committee to Elect a Department Chair (Summer 2002)

### ***Professional***

#### ***Reviewer***

Manuscript Reviewer for Gait & Posture (2003 to present), American Journal of Sports Medicine (2004-present), and Journal of Orthopedic and Sports Physical Therapy (1999 to present)

Requested reviews from Journal of Medical Devices, Archives of Physical Medicine and Rehabilitation, Journal of Applied Biomechanics, Clinical Orthopedics and Related Research and Clinical Biomechanics.

#### ***American Physical Therapy Association (APTA)***

##### ***Knee Education Group***

Assisted with organization and recruitment of speakers for CSM meeting 2003 & 2004

##### ***Section on Research (SOR)***

Review applications for SOR awards and assist with revision of section policies 2006-present.

##### ***Section on Research (SOR) – Biomechanics Special Interest Group***

Helped form and plan programming for the Combined Sections Meeting Biomechanics Special Interest Group. Assisted with selection of programming for the 2008 meeting.

##### ***Orthopedic Section***

Moderator Orthopedic Section Podium Presentations, Combined Sections Meeting, Boston, 2007

Moderator Orthopedic Section Podium Presentations, Combined Sections Meeting, Nashville, 2008

Abstract Reviewer, Orthopedic Section, Combined Sections Meeting, Las Vegas, 2009

#### ***Gait and Clinical Movement Analysis Society (GCMAS)***

##### ***Education Committee***

Served as Chair from Spring 2004 to present

Recruit and select tutorials for conference

Evaluated Student applicants for Whitaker Award

Wrote Whitaker Grant report for 4 years (2000 – 2004)

Completed meeting evaluations (2000-Present)

Organize and select student awards (2004-Present)

Abstract Reviewer 2003, 2005, 2006, 2007 meeting

Moderated session on musculoskeletal modeling 2005, lower extremity modeling 2007

##### ***Local – Rochester***

Assisted University Sports Medicine obtain Blue Cross/Blue Shield approval to pay for prevention services for Female ACL injury prevention program Spring 2004

***Teaching Responsibilities***

PTBS - 31000 Human Anatomy (undergraduate)

PTMS – 60700/60800 Research I & II (graduate)

PTMS - 61300 Clinical Science Orthopedics (graduate)

PTMS – 53600 Quantitative Movement Analysis in Rehabilitation (graduate)

PDPT - 61100 Applications of Evidence Based Practice (graduate)