ASB 2013 Representative Client Presentations

Thursday, September 5

Scapulothoracic Muscle Activation and Shoulder Kinematics Following a Simulated Work Task with Low Level Forces – Kimberly Szucs, Duquesne University, PA
Time: 9:30AM – 11AM; Location: Century Link – Grand Ballroom; Poster #25

Brittle Bone Fracture Risk with Transverse Isotropy – Nicole Grosland, University of Iowa, IA
Time: 9:30AM – 11AM; Location: Century Link – Grand Ballroom; Poster #40

Effects of Load Carriage and Fatigue on Gait Coordination and Variation in Healthy Males – Cara Masterson and Eric Dugan – Boise State University, ID
Time: 9:30AM – 11AM; Location: Century Link – Grand Ballroom; Poster #91

The Role of Pelvic Girdle Position in Force Development and Electromyography of the Latissimus Dorsi – Gretchen Oliver, Auburn University, AL
Time: 9:30AM – 11AM; Location: Century Link – Grand Ballroom; Poster #204

Noncontact Photoacoustic and Laser-Ultrasound Imaging of Optical Absorbers and Acoustic Scatterers in Tissue Phantoms – Michelle Sabick, Boise State University, ID
Time: 9:30AM – 11AM; Location: Century Link – Grand Ballroom; Poster #213

Quantification of Musculoskeletal Loading Profile of the Thumb During Pipetting – Kristin Zhao, Mayo Clinic, MN
Time: 9:30AM – 11AM; Location: Century Link – Grand Ballroom; Poster #224

The Effect of Recruitment Process on Postural Sway: A Preliminary Comparison Across Three Clinical Studies on Patients with Low Back Pain – Ram Gudavalli, Palmer College of Chiropractic, IA
Time: 9:30AM – 11AM; Location: Century Link – Grand Ballroom; Poster #245

Loading Asymmetry During a Stand to Sit Task for People with Multiple Sclerosis – Brad Bowser, South Dakota State University, Brookings, SD; Cathleen Brown, University of Georgia, GA
Time: 9:30AM – 11AM; Location: Century Link – Grand Ballroom; Poster #251

Dynamic Postural Stability Deficits Exist in Mechanically Lax Individuals but not in those with Perceived Functional Ankle Instability – Cathleen Brown Crowell, University of Georgia, GA
Time: 9:30AM – 11AM; Location: Century Link – Grand Ballroom; Poster #254

Differences in the Mechanics Between the Dominant and Non-Dominant Plant Limb During Instep Soccer Kicking – Eric Dugan, Boise State University, ID
Time: 9:30 – 11AM; Location: Century Link – Grand Ballroom; Poster #319

The Relationships of Bat Quickness and Bat Velocity with Batting Outcomes for Division I Softball Players – Travis Ficklin, University of Northern Iowa, IA
Time: 9:30AM – 11AM; Location: Century Link – Grand Ballroom; Poster #331

Relationship of Rate of Torque Development and Contractile Impulse During Time Critical Periods – Marc Norcross, Oregon State University, OR
Time: 9:30AM – 11AM; Location: Century Link – Grand Ballroom; Poster #334

Relationships Between Trunk Kinematics at the Critical Time Points in Baseball Pitching – J. Troy Blackburn, Darin Padua & Joseph Myers, University of North Carolina at Chapel Hill, NC
Time: 11:15AM – 12:15PM; Location: Century Link – Grand Ballroom; Thematic Poster #T15

Cardan Sequences on 1-mtp Joint Kinematics: Implications for Foot Bunion – Paula Ludewig, University of Minnesota, MN
Time: 2:30PM – 4PM; Location: Century Link – Grand Ballroom; Poster #104

Excitability of the Middle Deltoid at Different Elevation Angles – Andrew Karduna, University of Oregon, OR
Time: 2:30PM – 4PM; Location: Century Link – Grand Ballroom; Poster #146
Saturday, September 7

Addressing Shoulder Pain in Manual Wheelchair Users: Characterization of Field-based Kinematics & Kinetics and a Tele-rehab Therapeutic Exercise Program – Paula Ludewig, University of Minnesota, Minneapolis, MN & Kristin Zhao, Mayo Clinic, MN
Time: 9:30AM – 10:45AM; Location Century Link – Rooms 215/216; Symposium

Biomechanics of Independent Car Transfer and Wheelchair Loading in Manual Wheelchair users with SCI – Philip Requejo, Rancho Los Amigos National Rehabilitation Center, CA
Time: 9:30AM – 10:45AM; Location Century Link – Rooms 215/216; Symposium

Matching Human Walking Using a Six-Link Planar Model – James Schmiedeler, University of Notre Dame, IN
Time: 11AM – 12:15PM; Location Century Link – Rooms 211/212; Podium

Friday, September 6

Influence of Anticipation on ACL Loading when Ground Reaction Forces are Perturbed During a Sidestep Cutting Maneuver – Joshua Weinhandl, Old Dominion University, Norfolk, VA & Kristian O’Connor, University of Wisconsin-Milwaukee, WI
Time: 8AM – 9:30AM; Location: Century Link – Grand Ballroom; Poster #167

Ankle Landing Strategy During a Vertical Stop-Jump Maneuver Alters Knee Joint Resultant Forces – Timothy Sell & Scott Leaphart, University of Pittsburgh, PA
Time: 8AM – 9:30AM; Location: Century Link – Grand Ballroom; Poster #173

Kinematic Variables Associated with ACL Force During Unilateral Landings – Stacie Ringleb, Sebastian Bawab & Joshua Weinhandl, Old Dominion University, VA
Time: 8AM – 9:30AM; Location: Century Link – Grand Ballroom; Poster #203

3D Surface Registration of Partial Capitate Bones Using Spin Images – Kristin Zhao, Mayo Clinic, MN
Time: 8AM – 9:30AM; Location: Century Link – Grand Ballroom; Poster #206

Evaluating Upsampling Methods for 3-D Kinematic Data – Steven Leigh, Montclair State University, NJ
Time: 8AM – 9:30AM; Location: Century Link – Grand Ballroom; Poster #312

The Influence of Shoulder Rotation on Shoulder Kinetics in Catchers Throwing from the Knees – Hillary Plummer & Gretchen Oliver, Auburn University, AL
Time: 8AM – 9:30AM; Location: Century Link – Grand Ballroom; Poster #315

Risk of Reduced Subacromial Space in Manual Wheelchair Users Using a Model-Based Approach – Kristin Zhao, Mayo Clinic, Rochester, MN & Paula Ludewig, University of Minnesota, MN
Time: 2:30PM – 3:45PM; Location Century Link – Rooms 208/209; Podium

Subacromial Injection Results in Further Scapular Dyskinesis – Andrew Karduna, University of Oregon, OR
Time: 2:30PM – 3:45PM; Location Century Link – Rooms 208/209; Podium

The Effect of Biceps Tension on the Glenoid Labrum in Shoulders Having Rotator Cuff Tears – Richard Hughes, University of Michigan, MI
Time: 4PM – 5:15PM; Location: Century Link – Rooms 208/209; Podium

Thursday, September 5 (con’t)

Dynamic Lumbar Pursuit Task with Occupational Whole-Body Vibration Exposure – Timothy Craig & Sara Wilson, University of Kansas, KN
Time: 2:30PM – 4PM; Location: Century Link – Grand Ballroom; Poster #252

The Effects of Throwing Technique on Performance for Six Elite Javelin Throwers – Steven Leigh, Montclair State University, NJ
Time: 2:30PM – 4PM; Location: Century Link – Grand Ballroom; Poster #329