Meeting Overview

Saturday, August 14th 2010

Site: Center for Restorative and Regenerative Medicine

novel Workshops 12:00 – 17:00

Tour of the Neurorehabilitation Lab 15:00 – 15:30

Site: Hotel Providence – Lobby and Blackstone Terrace

Registration in Lobby 17:30 – 19:30

Opening Reception in Blackstone Terrace 17:30 – 19:30

Site: Memorial Boulevard Providence

Providence WaterFire throughout downtown Providence 19:30

Sunday, August 15th 2010

Site: Hotel Providence

Breakfast in Lobby 7:30

Scientific presentations & poster session 8:30

Site: RISD Museum of Art

Hors d’oeuvres, drinks and dinner 18:00

Music by Henriette Gaertner

Tour Museum until 21:00

Monday, August 16th 2010

Site: Block Island

Activity Day: sport activities, buses departure 6:30

Early dinner at The Atlantic Inn

Tuesday, August 17th 2010

Site: Hotel Providence

Breakfast in Lobby 8:00

Scientific presentations in Ballroom 9:00

Site: Aspire Restaurant (Hotel Providence)

Banquet Dinner, Music and Award Presentations 19:00

Venue

Brown University, Hotel Providence

Workshops

The Center for Restorative and Regenerative Medicine

830 Chalkstone Ave.

Providence RI, 02908

www.biomed.brown.edu/orthopaedics/

Welcome Reception

Conference/Presentations

Banquet Dinner

Hotel Providence

139 Mathewson Street

Providence RI 02903

tel 401-861-8000

www.hotelprovidence.com

Sponsor

novel electronics inc

St. Paul MN, USA

www.novelusa.com

novel gmbh

Munich, Germany

www.novel.de

Program
ESM 2010 Presentations

Saturday, August 14th 2010

Welcome to ESM 2010

10:30 – 11:30
Registration for the Workshop attendees in the Hotel Providence Lobby

11:30
Transportation to Workshops from Hotel Providence Lobby

novel Workshops at Center for Restorative and Regenerative Medicine and tour of Neurorhabilitation Lab
Each session will be approximately 45 minutes, with 15 minutes for questions. There will be a 10-15 minute break between each session.

12:00 – 13:00
Workshop I: novel hardware, data collection and analysis software overview

13:10 – 14:10
Workshop II: Project overview including setup of mock data collection and analysis

14:20 – 16:00
Workshop III: pineapple sensor applications

16:00 – 17:00
Tour of the Neurorhabilitation Lab 15:00 – 16:30

17:00
Transportation from the Workshops to Hotel Providence

Registration in the Hotel Providence Lobby

Opening Reception in Hotel Providence, Blackstone Terrace

WaterFire Providence Memorial Boulevard

Sunday, August 15th 2010

7:30 – 8:15
Breakfast, Registration, Hotel Providence Lobby

8:15 – 8:30
Welcome

8:30 – 10:00
SESSION 1 Foot Deformities
Chair: McPoil T.

8:30 – 8:55
Art in science award finalist
First ray instability in hallux valgus deformity – a kinematic radiographic and pedobarographic analysis

Orzeto A., Auber J., Martin H., Mittlmeier T.

8:55 – 9:20
Art in science award finalist
Is hallux valgus associated with different peak plantar pressure and pressure-time integrals?


9:20 – 9:32
Comparison of geometry hallux angles with radiographic hallux abductus angles for predicting hallux abductovalgus

Fumagali G., Song J.

9:32 – 9:44
Plantar loading in the cavus foot

Kraszewski A.P., Chow B., Backus S.I., Deland J.T., Demp P.H., Song J., Hillstrom H., Rosenbaum D., Janin M., Dupui P.

9:44 – 9:56
Foot structure is related to foot function


9:56 – 10:25
Break

10:25 – 12:00
SESSION 2 The Evolution of Gait
Chair: Princotta J.

10:25 – 11:10
Keynote lecture 1
Human Walking: Comparative and evolutionary approaches

Wundrich R., James Madison University

11:10 – 11:35
Art in science award finalist
Effect of shoe flexibility on plantar loading in children who are learning to walk


11:35 – 11:47
Dynamic plantar pressure changes during loaded gait


11:47 – 11:59
Kneefoot Muenster – Nine-year results of plantar pressure measurements in children’s foot development

Rosenbaum D., Bosch K., Gens J.

12:00 – 13:00
Lunch, Hotel Providence Lobby

13:00 – 15:00
SESSION 3 Pressure Distribution Measurements as a Diagnostic Tool
Chair: Ford K.

13:00 – 13:12
Dynamic foot loading patterns in children with juvenile idiopathic arthritis (JIA)

Rosenbaum D., Michels, H., Hartmann M.

13:12 – 13:24
Plantar fasciitis and pain symptom are related to the longitudinal arch shape and not to the plantar pressure during running

Sasso C.I.N., Ribeiro A.P., Tamboni-Soares F., Tussutti V., Jodo S.M.A.

13:24 – 13:36
Foot pressure distribution following operative treatment of proximal femur fractures

Bruck M., Emmenich J., Mittlmeier T.

13:36 – 13:48
The Maori foot: static morphology and dynamic function in healthy and diabetic populations

Gurney J., Riech K., Rosenbaum D., Kersten U.

13:48 – 14:00
Asymmetry in plantar loading during gait in Native Americans with and without diabetes and with and without neuropathy

Kernozek T.W., Heider C., Grady J.F.

14:00 – 14:12
Plantar pressure distribution patterns in multiple sclerosis patients with different neurological status


14:12 – 14:24
Can gait initiation process be evaluated with pressure platforms?

Rosenbaum D., Ledved Costa P.M., Bosch K.

14:24 – 14:36
The effects of footwear, learning, and fatigue on center of pressure excursion during single limb balance


14:36 – 14:48
Measurements of two-dimensional plantar pressure distribution in diabetic neuropathic patients

Sacco J., Sarton C.D., Pecic A.P., Roversi M., Donato R.C.

14:48 – 15:00
Poster & Break

15:00 – 16:00
RISD Room/Johnson & Wales Room, Hotel Providence

The effect of special shoe insert designed for diabetic patients on plantar foot pressure distribution

Ayalon M., Hestarini J., Nyska M.

Effect of gait speed changes on foot loading characteristics in children

Bosch K., Westhusen, M., Rosenbaum D.

Effects of intense running to exhaustion on the in-shoe plantar pressure patterns in young middle-distance athletes

Fourtett F., Kelly L., Haroebaum C., Miller G.P.

Clinical applications of a footwear conic curve model

Hillstrom H., Kraszewski A., Demp P., Chow B., Lenhoff M., Song J., Hillman B., Rosenbaum D., Woodley A.

Variation of tactile cues reduces nociceptive capacity of plantar irrigating stimulus impact on walking gait

Jann M., Dupuis P.

Effect of interlocking pattern in electrical bed on the prevention of bedsores

Lim D., Cha H., Kim J.H., Hong I.J., Chun K.I.

Biomechanical factor to be considered during power lift-design to reduce the risk of musculoskeletal disorders

Lim D., Cha H., Chun K.I.

Variations in plantar loading patterns in individuals with soft tissue versus bone rearfoot trauma: a preliminary study

McPoil T.O., Allen S., Cornwell M.M.

Effects of sub-hallux wedge and medial arch support on dynamic plantar pressure

Song J., Nemec C., Banks J., Murrupair H., Cao D., Tan D., Rumfitt J., Whitney K.

19:30 – 22:00
Ferry Ride from Point Judith to Block Island

Arrival on Block Island, distribution of bikes and lunches, activities begin

19:30
Ferry Departure

Monday, August 16th 2010

6:00 – 8:30
Breakfast pickup

8:00 – 9:30
Conference Room in the hotel lobby by 6:15

9:30 – 10:30
Break

10:30 – 12:00
SESSION 4 Gait and Orthoses
Chair: Stine R.

9:00 – 9:25
Art in science award finalist

cost-benefit analysis of foot orthoses yield greater forefoot load reduction than total contact casts

Gutekunst D.J., Bolhert R., Hastings M.K., Discoire D.R.

9:25 – 9:50
Art in science award finalist
Preservation of the first rocker is related to increased in gait speed in individuals with hemiplegia and AFO

9:50 – 10:02
Effect of CAD designed pedorthosis with build-in wedge for children with clubfoot

Rizzo M., Thomas J., Lyon R., Tassinari C., Tanama S.

10:02 – 10:14
Intraarticular and muscle force reactions of the leg using different insoles

Ford K., Boethigberger M., Gerber H.

10:14 – 10:26
Ratios of lateral to medial patellofemoral forces and pressures in a simulated operative environment of total knee arthroplasty

King J.J., Corin D.L., Perret J.J., Black B., Johanson N.A.

10:26 – 10:59
Break

Tuesday, August 17th 2010