Exercise & Sport Science Initiative Symposium
Friday, September 25, 2015
8:00 am – 5:00 pm
Junge Family Champions Center, Ann Arbor, MI

8:00-8:30 am  Registration & Continental Breakfast

8:30-8:55 am  Welcome & Opening Remarks
  •  S. Jack Hu, Ph.D. – Interim Vice President for Research, University of Michigan
  •  Jim Hackett – Interim Donald R. Shepherd Director of Athletics, University of Michigan

8:55-9:05 am  Betsey Armstrong – Goalkeeper of the gold medal winning 2012 U.S. Olympic Water Polo Team
  •  An Athlete’s View for the Exercise & Sport Science Initiative

9:05-9:30 am  Asheesh Bedi, M.D. – Harold W. and Helen L. Gehring Early Career Professor of Orthopaedic Surgery, University of Michigan
  •  Novel Approaches and Considerations in Joint Preservation

9:30-9:50 am  Roland Seydel, Ph.D. – Senior Director of Future Engineering, Adidas
  •  Sport Industry Needs, Workforce Qualifications and Market Trends

9:50-10:00 am  Break

10:00-10:20 am  Carol Hutchins – Head Coach of the University of Michigan Softball Team
  •  A Coach’s Perspective

10:20-10:40 am  Noel Perkins, Ph.D. – Donald T. Greenwood Collegiate Professor of Mechanical Engineering, Arthur F. Thurnau Professor, University of Michigan
  •  Evaluating Athletic Performance Using Inertial Sensors
10:40-11:10 am  Nutrition and Metabolism Panel
  • Charles Burant, M.D., Ph.D. – Dr. Robert C. and Veronica Atkins Professor of Metabolism, University of Michigan
    o Metabolomics in Nutrition and Exercise Research
  • Jeff Horowitz, Ph.D. – Professor of Kinesiology, University of Michigan
    o Fuel the Fire: Optimizing Energy Metabolism for Human Performance
  • Karen Peterson, D.Sc. – Professor and Chair, Department of Nutritional Sciences, University of Michigan
    o Public Health Opportunities: Nutrition and Physical Activity Research and Training
  • Sarah Snyder, M.S., R.D., CSSD – Director of Performance Nutrition, University of Michigan
    o Nutrition Periodization – How Nutrition Changes Throughout the Seasons

11:10-12:30 pm  Lunch & Poster Session (12:05-12:30)

12:30-12:50 pm  Jill McNitt-Gray, Ph.D. – Professor of Biological Sciences and Biomedical Engineering, University of Southern California
  • What’s BIG About Data and Teamwork?

12:50-1:15 pm  Concussion Panel
  • Steven Broglio, Ph.D. – Associate Professor of Kinesiology, University of Michigan
    o NeuroTrauma Research Laboratory – An Overview
  • James T. Eckner, M.D. – Assistant Professor of Physical Medicine and Rehabilitation, University of Michigan
    o Concussion Research Overview: Department of PM&R/Michigan NeuroSport
1:15-1:40 pm  
Data Analytics Panel

- **Eric Michielssen, Ph.D.** – Professor of Electrical Engineering and Computer Science and Associate VP of Research – Advanced Computing, University of Michigan
  - *Big Data and Gamification of Sports: Combining Science and Fun to Advance Health and Wellness*
- **Mark Rosentraub, Ph.D.** – Bruce and Joan Bickner Endowed Professor of Sport Management, University of Michigan
  - *Big Data, Sports, and Urban Change: Why and How Teams Can Help a City's Fiscal Health*
- **Stefan Szymanski, Ph.D.** – Professor of Sport Management, University of Michigan
  - *Player Rest Periods and Team Performance in the English Premier League*

1:40-2:00 pm  
Break

2:00-2:40 pm  
Performance Science Panel

- **Grant Goulet, Ph.D.** – Director, Human Performance Innovation Laboratory, University of Michigan
  - *Sport Science: Taking the Lab to the Field*
- **Jon Sanderson, M.S.** – Head Strength and Conditioning Coach for Olympic Sports, University of Michigan
  - *Screening Athletes for Disfunction*
- **Cathy Goldstein, M.D., M.S.** – Assistant Professor of Neurology, University of Michigan
  - *Sleep and Circadian Contributions to Performance*
- **Scott Goldman, Ph.D.** – Director of Athletic Counseling, University of Michigan
  - *Performance Psychology: Addressing the Full Spectrum of Optimization*
- **Darryl Conway, M.A., ATC** – Associate Athletic Director of Student-Athlete Health & Welfare, University of Michigan
  - *Athletics: 20/20 Vision*
2:40-3:05 pm  

**Sport Injury and Orthopaedics Panel**

- **James Carpenter, M.D.** – Harold W. and Helen L. Gehring Professor of Orthopaedic Surgery, University of Michigan  
  - *Shoulder Injuries: Bench to Bedside*

- **James Ashton-Miller, Ph.D.** – Research Professor of Biomedical Engineering and Mechanical Engineering and Director of the Biomechanics Research Laboratory, University of Michigan  
  - *ACL Injury Biomechanics: An Update*

- **Edward Wojtys, M.D.** – William S. Smith Collegiate Professor of Orthopaedic Surgery, University of Michigan  
  - *The Future of Sports Surgery is Tissue Engineering*

3:05-3:30 pm  

**Sport Technology Panel**

- **Ellen Arruda, Ph.D.** – Professor of Mechanical Engineering, Biomedical Engineering, and Macromolecular Science and Engineering, University of Michigan  
  - *Mechanics of Impact: Application to Helmet Design*

- **Jenna Wiens, Ph.D.** – Assistant Professor of Electrical Engineering and Computer Science, University of Michigan  
  - *Leveraging Spatiotemporal Data in the NBA*

- **Joan Greve, Ph.D.** – Assistant Professor of Biomedical Engineering, University of Michigan  
  - *Using Endurance and Resistance Training as a Therapeutic Approach in Preclinical Rodent Models of Cardiovascular Disease to Support Paradigm Shifts Being Proposed in the Clinic*

3:30-5:00 pm  

**Reception**