



**Exercise & Sport Science Initiative Symposium**

**Friday, September 25, 2015**

**8:00 am – 5:00 pm**

**Junge Family Champions Center, Ann Arbor, MI**

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| 8:00-8:30 am   | <b>Registration &amp; Continental Breakfast</b>   |
| 8:30-8:55 am   | <b>Welcome &amp; Opening Remarks</b> <ul style="list-style-type: none"><li>• <b>S. Jack Hu, Ph.D.</b> – Interim Vice President for Research, University of Michigan</li><li>• <b>Jim Hackett</b> – Interim Donald R. Shepherd Director of Athletics, University of Michigan</li></ul> |
| 8:55-9:05 am   | <b>Betsey Armstrong</b> – Goalkeeper of the gold medal winning 2012 U.S. Olympic Water Polo Team <ul style="list-style-type: none"><li>• <i>An Athlete's View for the Exercise &amp; Sport Science Initiative</i></li></ul>   |
| 9:05-9:30 am   | <b>Asheesh Bedi, M.D.</b> – Harold W. and Helen L. Gehring Early Career Professor of Orthopaedic Surgery, University of Michigan <ul style="list-style-type: none"><li>• <i>Novel Approaches and Considerations in Joint Preservation</i></li></ul>                                   |
| 9:30-9:50 am   | <b>Roland Seydel, Ph.D.</b> – Senior Director of Future Engineering, Adidas <ul style="list-style-type: none"><li>• <i>Sport Industry Needs, Workforce Qualifications and Market Trends</i></li></ul>   |
| 9:50-10:00 am  | <b>Break</b>  |
| 10:00-10:20 am | <b>Carol Hutchins</b> – Head Coach of the University of Michigan Softball Team <ul style="list-style-type: none"><li>• <i>A Coach's Perspective</i></li></ul>   |
| 10:20-10:40 am | <b>Noel Perkins, Ph.D.</b> – Donald T. Greenwood Collegiate Professor of Mechanical Engineering, Arthur F. Thurnau Professor, University of Michigan <ul style="list-style-type: none"><li>• <i>Evaluating Athletic Performance Using Inertial Sensors</i></li></ul>                  |



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
  - *Metabolomics in Nutrition and Exercise Research*
- **Jeff Horowitz, Ph.D.** – Professor of Kinesiology, University of Michigan
  - *Fuel the Fire: Optimizing Energy Metabolism for Human Performance*
- **Karen Peterson, D.Sc.** – Professor and Chair, Department of Nutritional Sciences, University of Michigan
  - *Public Health Opportunities: Nutrition and Physical Activity Research and Training*
- **Sarah Snyder, M.S., R.D., CSSD** – Director of Performance Nutrition, University of Michigan
  - *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
  - *NeuroTrauma Research Laboratory – An Overview*
- **James T. Eckner, M.D.** – Assistant Professor of Physical Medicine and Rehabilitation, University of Michigan
  - *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 Dysfunction*
- **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**