SUNDAY, MAY 4, 2008

SESSION 1

Welcome Remarks
A. Ashare and R. Greenwald, Symposium Co-Chairs

A Synthesis of the World Literature on Ice Hockey Injuries
A. Link, M. J. Stuart, B. J. Crawford, M. L. Gill, K. A. Dajani, and, A. M. Smith, Mayo Clinic, Rochester, Minnesota, USA
1:45 PM  
**An Investigation of the Risk Factors and Management of Concussion in Youth Ice Hockey Using Multiple Surveillance Strategies**  
D. Goodman and I. Williamson, Simon Fraser University, Burnaby, BC, Canada

2:05 PM  
**Acute Cervical Spinal Cord Trauma; Acute Non-Surgical Care: A Review**  
A. Ashare and A. Lyckman, Caritas St. Elizabeth’s Medical Center, Boston, Massachusetts, USA; Tufts University School of Medicine, Boston, Massachusetts, USA; USA Hockey, Colorado Springs, Colorado, USA

2:25 PM  
**Measuring Concussive Risk in Minor Ice Hockey**  
J. Baker and J. Cubos, York University, Toronto, Ontario, Canada; B. Faught, Brock University, Ontario, Canada; J. McAuliffe, Nipissing University, North Bay, Ontario, Canada; M. Keightley, University of Toronto, Ontario, Canada; and M. McPherson and W. Montelpare, Lakehead University, Thunder Bay, Ontario, Canada

2:45 PM  
**Preliminary Evaluation of Selected Hockey Equipment According to EN TS15256**  
P. Bishop, University of Waterloo, Elmira, Ontario, Canada

3:05 PM BREAK

Session Moderator: Blaine Hoshisaki  
University of Ottawa  
Ottawa, Ontario  
Canada

3:15 PM  
**The Incidence and Mechanisms of NCAA Intercollegiate Ice Hockey Goalie Injuries**  
R. F. LaPrade, University of Minnesota, Minneapolis, Minnesota, USA

3:35 PM  
**NCAA Seven Year (2000-2001 through the 2006-2007 seasons) Injury Pattern: Male and Female Ice Hockey**  
J. Agel, University of Minnesota, Minneapolis, Minnesota, USA; E. J. Harvey, McGill University, Montreal, Quebec, Canada

4:00 PM  
**A Proposed Methodology for Measuring Angular Acceleration in Ice Hockey Helmets**  
P. Rousseau and T. B. Hoshizaki, University of Ottawa, Ottawa, Ontario, Canada
Fifth International Symposium on Safety in Ice Hockey, Sunday, May 4, 2008, Session 1, continued

4:20 PM
**Head Impacts Sustained in Bantam-Aged Minor Hockey Players and Safe Hockey Behaviors**
M. McPherson, W. Montelpare, and M. Sutherland, Lakehead University Thunder Bay, Ontario, Canada; M. Keightly, N. Reed, and T. Taha, University of Toronto, Ontario, Canada; J. McAuliffe, Nipissing University, North bay, Ontario, Canada; J. R. Baker and J. Cubos, York University, Toronto, Ontario, Canada

5:00 PM
**Experimental Characterization Comparing the Response of Ice Hockey Sticks and Pucks**
L. Smith and R. Bigford, Washington State University, Pullman, Washington, USA

5:20 PM
**Measuring Body Contact, Exposure and Injury Rates in 9-10 Year Old Competitive Hockey Players of Associations Designed Body Checking Versus Non-Body Checking**
B. Faught, Brock University, St. Catharines, Ontario, Canada

5:40 PM
**Closing Remarks**
A. Ashare and Rick Greenwald, Symposium Co-Chairmen

5:45 PM  SYMPOSIUM ADJOURNS FOR THE DAY

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MONDAY, MAY 5, 2008

**SESSION 2**

Session Moderator: Rick Greenwald and Thayer School of Engineering
Simbex and Dartmouth College
Hanover, New Hampshire and Hanover, New Hampshire
USA and USA

8:15 AM
**Opening Remarks**
A. Ashare and R. Greenwald, Symposium Co-Chairs

8:30 AM
**Analysis of the Impact Performance of Ice Hockey Helmets Using Two Different Test Methods**
A. Giacomazzi and R. Kersey, California State University, Fullerton, California, USA; T. Smith, Dynamic Research, Inc., Torrance, California, USA
Fifth International Symposium on Safety in Ice Hockey, Monday, May 5, 2008, Session 2, continued

8:50 AM
**Modern Hockey Equipment and Its Relationship to Head Injuries**
D. Richards, I. Scher, R. Thomas, and J. Ivarsson, Phoenix, Arizona, USA

9:10 AM
**Impact Attenuation Contributions of Engineered Structures used in Protective Helmets**
T. Hoshisaki and A. Post, University of Ottawa, Ottawa, Ontario, Canada

9:30 AM
**The Acceleration-Axonal Strain Relationship and mTBI: Future Directions for Head Protection**
P. Bishop, University of Waterloo, Elmira, Ontario, Canada

9:50 AM  BREAK

Session Moderator:  Patrick Bishop
University of Waterloo
Elmira, Ontario,
Canada

10:10 AM
**A Longitudinal Study of Ice Hockey Helmet Shelf Life**
D. Pearsall and P. Dowler, McGill University, Montreal, Quebec, Canada

10:30 AM
**In-Situ Measures of Head Impact Acceleration in NCAA Division I Men’s Ice Hockey: Implications for ASTM F1045 and Other Ice Hockey Helmet Standards.**
J. T. Gwin, J. J. Chu, and R. M. Greenwald, Simbex, Lebanon, New Hampshire, USA

10:50 AM
**The Effect of Chamber Vent Diameter on Peak Reaction Force During an Impact**
L. Lamb and T. B. Hoshizaki, University of Ottawa, Ottawa, Ontario, Canada

11:10 AM
**Effect of Mass and Impact Velocity on Energy Attenuation Efficiency of Ice Hockey Helmet Materials**
G. Gimbel and T. B. Hoshizaki, University of Ottawa, Ottawa, Ontario, Canada

11:30 AM  LUNCH (On Your Own)
SESSION 3

Session Moderator: William Montelpare
Lakehead University
Thunder Bay, Ontario
Canada

1:00 PM
Opening Remarks
R. Greenwald, Symposium Co-Chair

1:10 PM
The Heads Up, Don’t Duck Program to Decrease the Risk for Cervical Spinal Injury
A. Ashare, Caritas St. Elizabeth’s Medical Center, Boston, Massachusetts, USA; Tufts University School of Medicine, Boston, Massachusetts, USA; USA Hockey, Colorado Springs, Colorado, USA

1:30 PM
Warnings and Instructions One of Three Legs on Ice Hockey’s Safety Stool
M. Granger, Morrison Mahoney LLP, Boston, Massachusetts, USA

1:50 PM
Hockey Education Program: A Statewide Measure of Fair Play, Skill Development and Coaching Excellence
A. Smith, M. Jorgenson, M. Sorenson, M. Stuart, D. Margenau, and A. Link, Mayo Clinic, Rochester, Minnesota, USA

2:10 PM
The Effect of Litigation on Coaches and Facility Operators in Ice Hockey
L. Lucenko, Montclair State University, Bonita Springs, Florida, USA

2:30 PM
Introducing the Reduction of Violence in Hockey among Players, Parents and Coaches, and Owners/Managers, in Public Assembly Area Rink Venues
A. H. Middlestaedt and F. Cosgrove, Recreation Safety Institute, Ronkonkoma, New York, USA

2:50 PM BREAK
Fifth International Symposium on Safety in Ice Hockey, Monday, May 5, 2007, Session 3, continued

Session Moderator: Mark Granger
Morrison Mahoney LLP
Boston, Massachusetts
USA

3:10 PM
Introducing the Play it Cool Program: Results from the Initial Pilot Study
W. Montelpare, Lakehead University, Thunder Bay, Ontario, Canada

3:30 PM
Kinematic Analysis of Skating Crossovers: A Comparison of on-Ice and off-Ice Technique
M. McPherson and W. J. Montelpare, Lakehead University, Thunder Bay, Ontario, Canada; and
M. J. Stuart, A. M. Smith, and M. Sorenson Mayo Clinic, Rochester, Minnesota, USA

3:50 PM
When Metal Meets Ice: Potential for Performance or Injury
K. Lockwood, Brock University, St. Catharines, Ontario, Canada

4:10 PM  DISCUSSION

5:10 PM
Closing Remarks
A. Ashare and R. Greenwald, Symposium Co-Chairmen

5:15 PM  SYMPOSIUM ADJOURNS

Revised 4/10/08