OSU Director’s Report

John H. Bolte IV, PhD | CChIPS Director
Ohio State Update

• Injury Biomechanics Research Center
• IBRC Updates:
  – Personnel, Projects, & Outreach
• Awards and Publications
• 2015 Injury Biomechanics Symposium
CChIPS Growth

• TS Tech Americas
• 23 Funded Projects
  – Vehicle Safety
  – Sport Biomechanics
  – Military Biomechanics
  – Forensic Biomechanics
  – Bone Quality / Scaling

• ~$6 Million in Research Funding

• 50 Personnel
  – 9 Faculty & Staff
  – 10 PhD
  – 6 MS
  – 7 “Active” Undergraduates
  – 18 Undergraduate Volunteers
IBRC Personnel Update
• Welcome to the IBRC
  – New graduate students
    • Allison Yard, PhD student
    • Michelle Murach, MS student
    • Colleen Croyle, MS student
    • Saskia Richter, PhD student
    • Laura Seidel, MS student
    • Alaine Wetli, MS student
    • Nicole Crowe, MS student
    • Stephanie Johnson, MS student
• 5 students involved in CChIPS projects
  – 2 PhD
    • Julie Bing | Booster Fit
    • Saskia Richter | Q3 Omnidirectional Shoulder
  – 1 MS
    • Yeonsu Ryu | Hybrid III 6-year-old Lower Extremity
  – 1 undergraduate
    • Karolina Ostapkiewicz | Q3 Omnidirectional Shoulder
    • Jared Seidel | Q3 Omnidirectional Shoulder
• Yadetsie Zaragoza-Rivera (aka Nikki)
  – BS, Mechanical Engineering from the University of Puerto Rico - Mayaguez
  – PhD, Biomedical Engineering, The Ohio State University, expected completion ??
  – Summer UG Experiences
    • 2013 – The Ohio State University – Ajit Chaudhari, PhD - Orthopaedic focus
    • 2014 – University of Michigan (REU)
  – Areas of Interest
    • Pediatric Injury Biomechanics
      – ATD Biofidelity
  – Hobbies
    • Reading, writing, movies, painting and board/video games
  – Future Plans
    • Survive winter!!
IBRC Outreach

• CRS fit study
  • Julie Bing presented at the 2015 Association for the Advancement of Automotive Medicine (AAAM)
  • 2084 Views of the article in Traffic Injury Prevention
  • Ad value: $205,936
  • Audience: 106,264,366
  • # of airings and placements for the story: 168
  • Youtube views: 1,177
• Buckle Up With Brutus
  • Website officially launched in September
    www.buckleup.osu.edu
  • 1st Annual OSU car seat check
    • 16 CPSTs
    • Over 60 car seats checked
    • More than 150 installation corrections made
    • Boosters given away
IBRC Outreach
- Safety Day at COSI
- Franklin County Early Childhood Education & Family Center
- Child Passenger Safety Conferences
  - Northwest Ohio
  - Central Ohio
  - Maine
- Women in Technology & Science
- Freshman Engineering Orientation at Ohio Northern University
IBRC Outreach

Pediatric Research

Children are not small adults. The pediatric population has unique body proportions, bone and tissue stiffness, and development that must be considered in research efforts to improve child safety.

Compatibility of child restraint systems (CRS) in vehicles

We strive to advance the safety of children, youth, and young adults by facilitating scientific inquiry into childhood and youth safety.

Biodeterioration of pediatric anthropomorphic test devices (ATDs)

The Ohio State University

Center for Child Injury Prevention Studies

The Children’s Hospital of Philadelphia

RESEARCH INSTITUTE
IBRC Publications/
Presentations

• Publications
  – 19

• Presentations
  – 36
2016 Injury Biomechanics Symposium

- SAVE THE DATE: June 5-7, 2016
- Sponsorship opportunities available