



# EASTERN

## MICHIGAN UNIVERSITY

### ORTHOTICS & PROSTHETICS

November 2016

Volume 2 Issue 2

#### HANDS-ON LEARNING WITH OTTOBOCK



On Nov 17th , Ottobock hosted an interactive lesson on myoelectric prostheses for 2nd year upper extremity prosthetics students. Students learned the process of assessing patients and training them how to control their terminal device using surface electrodes which detect muscle activity. The students also tested the technology on themselves using the Michelangelo hand. A huge thank you goes out to Tim Schride and Ottobock for providing their resources and time . This was an awesome opportunity that provided students with invaluable hands-on knowledge and experience

#### EMU HOSTS DIGITAL DIVAS

The MSOP students and faculty recently hosted Digital Divas, a program that introduces young girls to STEM fields. We had a total of 54 students attending two sessions. The students were divided into groups and were tasked with 3D scanning and printing, making alginate finger molds, and fitting a variety of orthoses. These future O&P enthusiasts had a blast exploring the world of O&P. Thank you to all who volunteered to put on such a successful event.



#### WALKING WITH ÖSSUR

On Nov 15th, Össur , one of the largest manufacturers of O&P materials in the world, gave a presentation on their products. The presentation involved discussions on how to choose products for different patients, and emphasized patient-centered care. The products brought were geared toward trans-tibial solutions, to align with the second year curriculum. Students passed around various Össur products, starting with options for prosthetic liners, and discussed the benefits and uses of each. Össur also presented the variations of the Flex-foot – they generously donated several to the program. The presentation was an excellent opportunity to learn about O&P products. Thank you to Össur for their time and efforts, as well as their generous donation to the program.

#### EMU ON BOARD WITH NCOPE

Program director, Wendy Beattie, was recently elected to the Board of Directors of NCOPE. This position is voted for by other educators in O&P, which is an amazing achievement. Congratulations Wendy!



## STUDENT PROFILES: CLASS OF 2017

### **Robbie Bennett**

Hometown: Durban, South Africa

Educational background: Sport & Exercise Science , Gannon University, PA

Topic of Capstone Project: SpectraCarb in prosthetic lamination.

Overview of the topic & what got you interested in it?

I am always curious as to why certain techniques or materials are used in the field. I was introduced to SpectraCarb during my summer clinicals. It has obvious benefits as a laminate, but there is little evidence that supports the use of one material over another. The goal of my capstone is to evaluate the properties of SpectraCarb vs. traditionally used Carbon Fiber . I also enjoy hands-on work, so being able to make and break things for the benefit of research in the field is a bonus!



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## STUDENT PROFILES: CLASS OF 2017

### **Kameron Mitchell**

Undergrad: Purdue University

Major: Human Movement & Sports Sciences

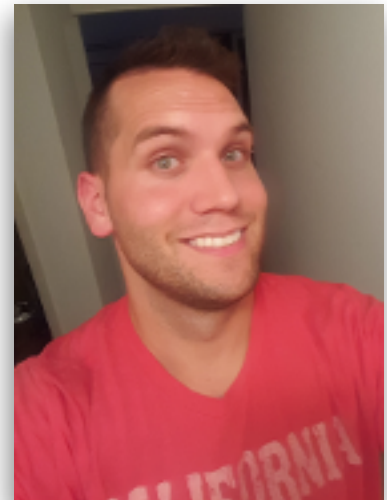
Hometown: Los Angeles, CA

Why O&P?: I Initially went to Purdue for Industrial Design, switched majors to Human Movement with a pre-med focus and I had the idea that I would become a surgeon. After observing a day in the life of an orthopedic surgeon, I knew I wanted more patient interaction and more involvement in the long term rehabilitation process of the patient. Orthotics and Prosthetics seemed like a perfect blend of my passions for technology, design, and health.

Interests in the field: Neuroprosthetics and Adaptive Sports, but I get more interested in different areas all the time.

What have you enjoyed learning about/working on the most the first half of the semester?:

My favorite part so far has definitely been working on the AFOs in intro. Going through the entire fabrication process from taking measurements, casting, pouring and modifying plaster, and pulling plastic has been a very enlightening experience.



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## UPCOMING NEWS & EVENTS

**TechMed 3D** - Free seminar on 3D scanning and CAD/CAM - December 9th - 9am to noon.

**Information Session** - The next session will be held in January

**OPAF First Clinic** - March 2016