

ASEE North Central Section Newsletter

November 2013



EDITOR:

Roland Arter, The University of Akron

ASEE 2014 North Central Section Conference April 4-5, 2014, Oakland University, Rochester, MI

***Chair's Column:* Andrew Kline, Western Michigan University**

Engineers and Friends,

As the new Chair of the North Central Section (NCS) of ASEE, I would like to welcome everyone to another academic year, and hope that everyone is off to a good start. As I look out my office window, it is easy to see that this summer has been much more pleasant in the Midwest than the droughts of 2012. The Western Michigan University campus here in Kalamazoo has filled with new and returning students, eager to soak up some knowledge as we support and engage them in their academic pursuits.

For those who were able to attend the national ASEE meeting this past June in Atlanta, you know that the ASEE is continuing outreach efforts, not only to encourage K-12 students to choose STEM fields as careers and to increase diversity and inclusion, but also to engage newer faculty and engineering professionals in the organization. This membership recruiting effort will help promote continuing input to educators from the industries where many of our students find employment, and provide professional development and networking opportunities for faculty and practicing

engineers alike.

One way to become involved with ASEE on a more local level would be to participate in our section's regional conference, to be held this April 4 and 5, 2014, at Oakland University, in the metro Detroit area. Plans are already underway for the Spring 2015 conference to be hosted by the University of Cincinnati. The ASEE NCS regional conference has been averaging more than 120 attendees each year, with 60 to 70 peer-reviewed paper presentations from undergraduate and graduate students and faculty. This conference is a great opportunity for you to present your scholarship and teaching as well as a chance for your students to present their work in a professional setting. As always, we strive to keep registration and other costs affordable. Please consider joining us this April at Oakland University for a great regional conference!

I would also like to encourage those who regularly attend the NCS regional conference to bring someone with them in April 2014 who has not previously attended. Several degree programs in engineering education

have been added at campuses within our section in the last few years, and our conference provides an opportunity for students and faculty to showcase engineering education pedagogy efforts as well as other project or research work. The ASEE NCS regional conference best paper has been selected as the best Zone II paper at the national level three consecutive years (2010-2012). The zone judging from the Spring

2013 conference best papers will be completed this fall, and we are hoping to continue our winning streak. Your hard work and contributions are being noticed beyond the boundaries of our own ASEE region.

Andrew Kline
Chair North Central Section ASEE

ASEE 2013 NORTH CENTRAL SECTION CONFERENCE

APRIL 2013, THE OHIO STATE UNIVERSITY, COLUMBUS, OHIO

To all ASEE North Central Section Members, Visitors and Guests:

The up coming ASEE North Central Section (NCS) Convention is the major event of this area and will include presentations, workshops and poster competitions for engineering and engineering technology professionals, faculty and students. The program will include a luncheon and a banquet. It is an opportunity to exchange ideas, information and to network in general. Go to <http://www.oakland.edu/SECS/asee2014> for more information.

Note: when you create an account at ASEE North Central Section website, don't lose your password. You can recover it, but it is just easier to hold on to it.

The ASEE NCS website is complete for the convention, but if you have addition questions please contact Dr. Subra Ganesan directly at 248-370-2206 or at ganesan@oakland.edu.



**2014 American Society for
Engineering Education
North Central Sections
Conference**

**April 4 - 5, 2013
Oakland University
Rochester, MI**



CONVENTION REGISTRATION

Please use the link below for Convention Registration. Registration assumes payment by credit card at this link. If you want to pay Convention Registration by cash or check, please contact S. Ganesan directly at 248-370-2206 or at ganesan@oakland.edu.

Conference links (the first can be used to get to the second):

<http://www.asee-ncs.org> or <http://www.oakland.edu/SECS/asee2014>

Convention Registration rates are as follows:

Registration Type	Final Date	Members	Non-members	Students
Early Registration	March 8	\$150.00	\$170.00	\$50.00
Registration	March 22	\$175.00	\$195.00	\$50.00
Late Registration	April 4	\$200.00	\$225.00	\$75.00

Registration will include the Friday Reception, the Saturday Lunch and Banquet.

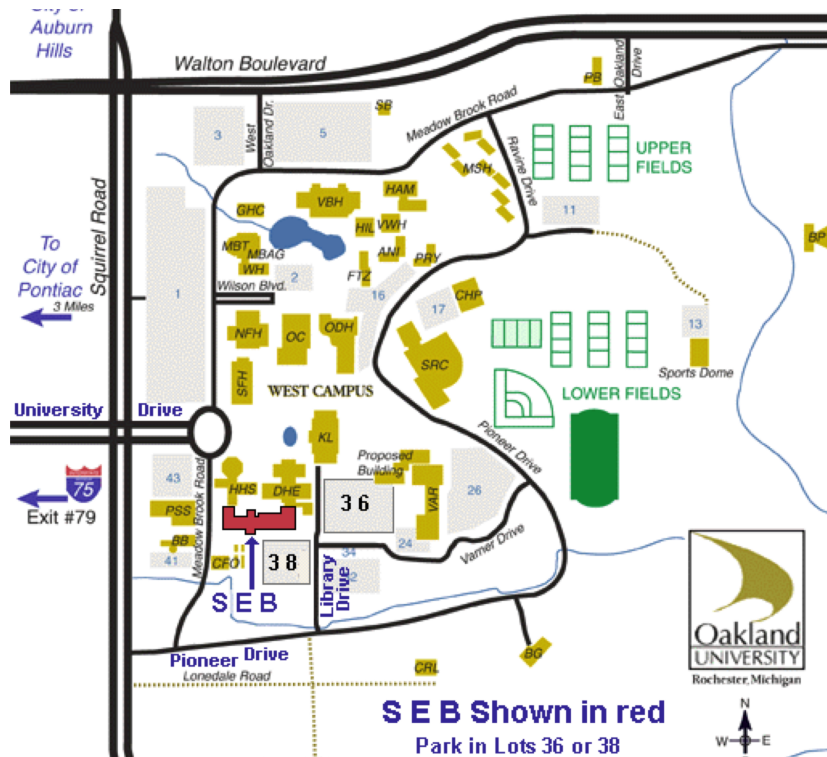
CAMPUS ACCESS

Take Exit 79 off of I-75, go east 1.5 miles on University Drive. This leads directly to the main entrance of Oakland University.

Parking is free and on a first come, first served basis.

Oakland University address:

2200 Squirrel Road
Rochester Hills, MI 48309



Accommodations

HOTEL INFORMATION

Recommended hotels are listed below. They are within convenient driving distance of the hotel. Room reservations can be made using the information below. Please ask about special Oakland University rates. These rates are lower for participating area hotels.

Local Hotels

NAME	ADDRESS	PHONE	Miles to Conference
Comfort Suites	1565 N Opdyke Rd, Auburn Hills, MI 48326	(248) 370-0200	1.7 miles
Concorde Inn	1919 Star-Batt Dr, Rochester Hills, Michigan 48309	(248) 299-1210	5.0 miles
Crowne Plaza (Auburn Hills)	1500 N Opdyke Rd, Auburn Hills, MI 48326	(248) 373-4550	1.7 miles
Extended Stay America [1]	3315 Univ Dr, Auburn Hills, MI 48326	(248) 340-8888	0.3 miles
Hampton Inn Det/Auburn Hills	3988 Baldwin Rd, Auburn Hills, Michigan 48326	(248) 874-4902	7.7 miles
Hawthorn Suites by Wyndham Detroit (Auburn Hills)	1650 N Opdyke Rd, Auburn Hills, MI 48326	(248) 373-3342	1.7 miles
Hyatt Place Det/Auburn Hills	1545 North Opdyke Road, Auburn Hills, MI 48326	(248) 475-9393	1.7 miles
Quality Inn	1461 N Opdyke Rd Auburn Hills, MI 48326	(248) 370-0044	1.7 miles
Royal Park Hotels	600 E University Dr, Rochester, MI 48307	(248) 652-2600	7.2 miles

[1] **Extended Stay** is nearest to the University and cheapest and has one room with a small kitchen

Plan ahead - Several things to seriously consider.

Register early! It will save you money and assure your attendance at the conference.

Make hotel reservations early. There are always a limited number of rooms on site.

See you at the 2014 conference.

2014 American Society for Engineering Education - North Central Section Conference
April 4-5, 2014, Oakland University, Rochester, MI 48309

Call for Papers, Posters and Workshops
Abstract deadline: January 11, 2014

Overview

Founded in 1893, the American Society for Engineering Education is a nonprofit organization of individuals and institutions committed to furthering education in engineering and engineering technology. **North Central Sectional Conference** is one of the sectional conferences sponsored by ASEE. Oakland University, Rochester, MI will be the host institution. Over 100 academic and industry representatives are expected at this conference. Participants will include college deans, department chairpersons, faculty in engineering and engineering technology, and industry leaders from throughout the country. The majority of the attendees, however, are engineering and engineering technology faculty.

Paper Submission

Papers are submitted in a two-stage process. First, initial versions of the paper (abstracts) must be submitted by **January 11, 2014**, and then they will be reviewed. You will be notified of acceptance by **January 21, 2014**. If you are invited to submit for the second stage of the process, you must submit a preliminary version of the complete document by **February 7, 2014**. These documents will then be peer-reviewed. This review and further notification will be complete by **February 21, 2014**. If accepted in the peer review process, final versions of the documents as they will appear in the conference proceedings must be submitted by **March 8, 2014**.

What May You Submit?

Education related Papers/Posters/Workshops for presentation in the 2014 Conference can be submitted in the following ways:

1. Full Papers: For completed work
2. Extended abstracts: For projects either just started or projects that are planned to begin soon
3. Workshop on Engineering Education
4. Student Submissions: For papers and poster produced by students with the supervision of faculty.

Information on each of these is provided at the North Central Section Conference website,
<http://www.oakland.edu/SECS/asee2014>.

Abstract/Papers should be submitted at easychair.org/conferences/?conf=aseencs2014

To submit your abstract/paper, you will need to create an account as author and then submit the abstract/paper in .PDF format with at least three key words, one per line in the "keywords" boxes. Click on the appropriate box to identify the paper as "abstract," "first draft paper," or "final paper." If you experience problems submitting the paper, please contact **Professor Subra Ganesan**. Oakland University, phone: (248) 370-2206 or 248 635 5890 cell, email: ganesan@oakland.edu

ASEE NCS 2014 Organizing Committee, Oakland University

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Dr. Daniel Aloï, Chair, ECE Dept.

Dr. Lunjin Lu, Chair, CSE Dept.

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Jane Dietrich

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Darrin Hanna

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Local Arrangements Chair

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Publications Co-chair

Darrin Hanna

Web Master

Emily Prawdzik Genoff

Prof. Subra Ganesan, ganesan@oakland.edu, phone: 248-370-2206, Cell: 248-635-5890

ANNOUNCEMENTS

A note from Betsy Aller, NCS Campus Representative Coordinator:

At this year's ASEE meeting in Atlanta, I participated in the campus representatives meeting with the ASEE national campus rep folks. We shared concerns and suggestions about a number of items. Most importantly, the poor response rate from campus reps in filing their annual reports (ours was a dismal 27%; the national range was 3% to 33%) was addressed, as was the (possibly connected) need to redesign the campus rep activity report. Breakout groups offered some excellent suggestions for the report redesign (e.g., add opportunities to list innovative activities, suggestion boxes on the report); for updating the campus rep checklist of required vs. recommended activities; and to revise the procedure for determining Outstanding Section Campus Rep awardees. I am very hopeful that the results from this June's meeting will be

made available to us before too long, and I will share it when it becomes so.

In the meantime, I ask each of you to find out two things: 1) who is your campus rep?, and 2) does that person still wish to be and will that person submit the annual report? If you are wondering who is listed for your campus rep, shoot me an email and I'll let you know who I've got on my list (betsy.aller@wmich.edu). If your current campus rep is too busy / no longer interested / retired / otherwise inactive, please (tactfully, of course!) talk with your dean or associate dean and see if another, active ASEE member can be appointed. The ASEE campus rep should be the conduit and cheerleader for all things ASEE; let's work together to strengthen this network.

Thanks!

FACULTY POSITIONS AVAILABLE AT OAKLAND UNIVERSITY

Following Faculty positions are available preferably at Assistant Professor level at Oakland University to start working from August 2014.

- Two positions in Computer Science and Engineering
- One position in Electrical and Computer Engineering
- One position in Mechanical Engineering
- One position in Industrial and Systems Engineering

Send your resume to Dr. Louay Chamra, Dean School of Engineering at chamra@oakland.edu and /or to the respective department chairs. Details about the University are available at: www.oakland.edu/secs.



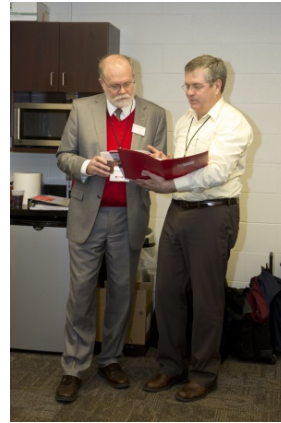
ASEE NORTH CENTRAL SECTION EXECUTIVE BOARD, 2013-2014

<p><u>Past Chair (2013-2015)</u></p> <p>Craig Gunn, Ph.D. Director Comm. Program Dept. of Mechanical Engineering Michigan State Univ. East Lansing, MI (517) 355-5160 (office) (517) 353-1750 (fax) gunn@egr.msu.edu</p>	<p><u>Chair (2013-2015)</u></p> <p>Andrew Kline, Ph.D. Associate Prof. Dept. of Chemical and Paper Engrg. Western Michigan University 4601 Campus Drive A217 Parkview Kalamazoo, MI 49008-5462 (269) 276-3516 (office) (269) 276-3501 (fax) andrew.kline@wmich.edu</p>	<p><u>Vice Chair (2013-2014)</u></p> <p>Kumar Yelamarthi, Ph.D. Asst. Prof. of Elec. Engrg. Depart. Of Eng. and Tech Central Michigan University Mount Pleasant, MI 48859 (989) 774-7164 (office) (989) 774-4900 (fax) kumar.yelamarthi@cmich.edu</p>	<p><u>Secretary</u></p> <p>Roland Arter, Assoc. Prof., Mech. Engrg. Tech. Engineering & Science Technology Department The University of Akron Schrack Hall South 123E Akron, OH 44325-6104 (330) 972-6784 (office) arter@uakron.edu rkarter@roadrunner.com</p>
<p><u>Treasurer</u></p> <p>Andrew Milks, Asst. Prof. Engineering & Science Technology Department The University of Akron Schrack Hall South 221E Akron, OH 44325-6104 (330) 972-2449 (office) amilks@uakron.edu</p>	<p><u>Newsletter Editor</u></p> <p>Roland Arter, Assoc. Prof., Mech. Engrg. Tech. Engineering & Science Technology Department The University of Akron Schrack Hall South 123E Akron, OH 44325-6104 (330) 972-6784 (office) arter@uakron.edu rkarter@roadrunner.com</p>	<p><u>Zone II Chair (2012-2014)</u></p> <p>Barbara Victoria Bernal, Prof. Computing & Software Engrg. Southern Polytechnic State University 1100 S. Marietta Parkway Marietta, GA 30060 (678) 915-4283 bbernal@spsu.edu</p>	<p><u>ASEE Campus Representatives Coordinator</u></p> <p>Betsy M. Aller, Ph.D. Assoc. Prof. Dept. of Industrial & Manufacturing Engrg. Western Michigan University 4601 Campus Drive Kalamazoo, MI 49008-5336 (269) 276-3354 (office) (269) 276-3353 (fax) betsy.aller@wmich.edu</p>
<p><u>Unit Director-Research (2013-2015)</u></p> <p>Karinna M. Vernaza, Ph.D. Assoc. Prof, Mech. Engrg. Interim Assoc. Dean, College of Engrg. & Business Gannon University 109 University Square Erie, PA 16541 (814) 871-7722 (office) vernaza001@gannon.edu</p>	<p><u>Unit Director-Instructional (2012-2014)</u></p> <p>Dan Budny, Ph.D. Assoc. Prof. Director of Freshman Engineering Program Swanson School of Engineering University of Pittsburgh 126 Benedum Hall Pittsburgh, PA 15261 (412) 624-6474 (office) (412) 624-2827 (fax) budny@pitt.edu</p>	<p><u>Unit Director-Industrial (2012-2014)</u></p> <p>Kenneth Reid, Ph.D. Assoc. Prof. Director of First-Year Engrg. Program director, Education ECCS Department Ohio Northern University Biggs 246 Ada, OH 45810 (419) 772-2383 (office) (419) 772-2404 (fax) k-reid@onu.edu</p>	<p><u>Unit Director- Administration (2013-2015)</u></p> <p>Ahmed Abdel-Mohti, Ph.D., Asst. Prof. Civil Engineering Dept. College of Engineering Ohio Northern University 525 S. Main St. Ada, OH 45810 a-abdel-mohti@onu.edu</p>
<p><u>Best Paper Awards Chair</u></p> <p>Ahmed Abdel-Mohti, Ph.D., Asst. Prof. Civil Engineering Dept. College of Engineering Ohio Northern University 525 S. Main St. Ada, OH 45810 a-abdel-mohti@onu.edu</p>	<p><u>2013 Program Chair</u></p> <p>Robert Gustafson, Ph.D. Director, Engrg. Education Innovation Center The Ohio State University 2070 Neil Avenue Columbus, OH 43210 (614) 292-0573 gustafson.4@osu.edu</p>	<p><u>2014 Program Chair</u></p> <p>Subramaniam Ganesan, Ph.D. Prof., Elec. & Comp. Engrg. Director, Real Time Embedded DSP System Lab Oakland University 2200 N Squirrel Rd, DHE 105 Rochester, MI 48309 (248) 370-2206 (office) (248) 370-4633 (fax) ganesan@oakland.edu</p>	<p><u>NCS Webmaster</u></p> <p>Kumar Yelamarthi, Ph.D. Asst. Prof. of Elec. Engrg. Depart. Of Eng. And Tech Central Michigan University Mount Pleasant, MI 48859 (989) 774-7164 (office) (989) 774-4900 (fax) kumar.yelamarthi@cmich.edu</p>

ASEE North Central Section 2013 Conference
hosted by The Ohio State University



Craig Gunn (left), Chairman of the ASEE NCS



Robert Gustafson (left),
2013 ASEE NCS
Conference Chairman

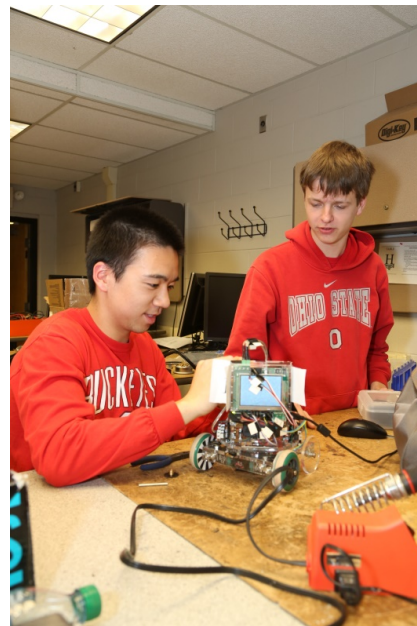
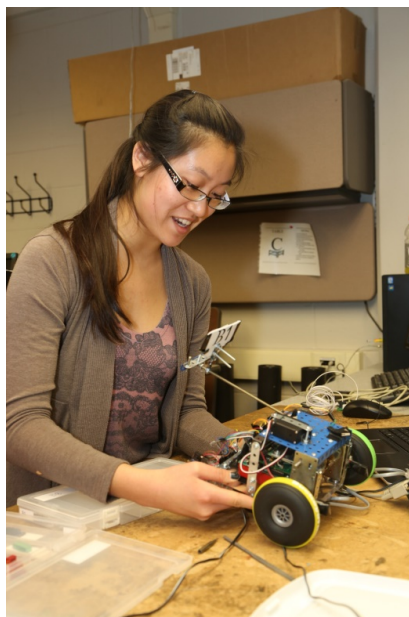
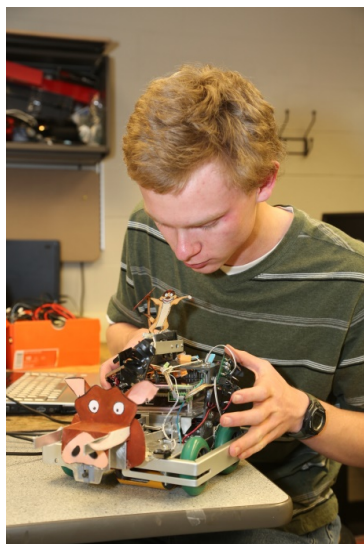


Friday night Reception - snacks, tours and discussion

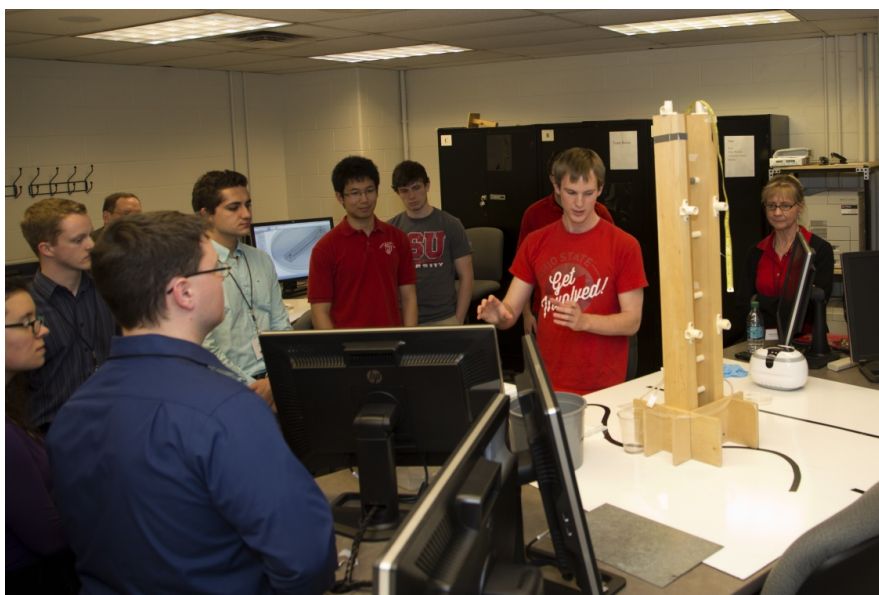


Support Staff

ASEE North Central Section 2013 Conference
hosted by The Ohio State University



Student project
demonstrations



ASEE North Central Section 2013 Conference
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Presentations, posters and workshops

ASEE North Central Section 2013 Conference
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Saturday afternoon Luncheon

ASEE North Central Section 2013 Conference
hosted by The Ohio State University



Saturday night Banquet

ASEE North Central Section 2013 Conference
hosted by The Ohio State University



ASEE North Central Section Executive Board, 2013-2014

Right to left: R. Arter, K. Yelamarthi, A. Milks, R. Mawasha, D. Budny, B. Aller, A. Kline, A. Abdel-Mohti, R. Gustafson (partially hidden), C. Gunn



Best Paper Award, 1st Place



Best Paper Award, 2nd Place



Best Student Paper Award, 2nd Place



Outstanding Teacher Award,
Kathleen A. Ossman
The University of Cincinnati



Kumar Yelamarthi



Craig Gunn



Ruby Mawasha

Outstanding Campus Representative Awards

ASEE North Central Section 2013 Conference
hosted by The Ohio State University

Conference Chair: Robert Gustafson

Outstanding Teacher Award: Kathleen A. Ossman, University of Cincinnati

Best Paper Award:

1st Place - Darrell Kleinke, University of Detroit Mercy

2nd Place - David L Tomasko, Judy S Ridgway, Susan V Olesik, Rocquel J Waller, Minnie M McGee, Lisa A Barclay, Kathleen T Harkin, and Jan Upton

3rd Place - Joshua Stuckey, Mark Archibald, Grove City College

Best Student Paper Award:

1st Place - Leroy L. Long III, Michael Steven Williams, Terrell L. Strayhorn, Ohio State University

2nd Place - Casey Kick, Andrew Kline, Harold Hladky, Betsy Aller, Western Michigan University

3rd Place - Jennifer A. Czoher, Jenna Tague, Greg Baker, Amanda Roble, Ohio State University