

# ASEE North Central Section Newsletter

*June 2011*

**EDITOR:**

Roland Arter, The University of Akron



**DON'T FORGET THE**  
*118<sup>th</sup> Annual ASEE Conference & Exposition!*

*June 26 - 29, 2011 - Vancouver, BC, Canada*

**Chair's Column: P. Ruby Mawasha, Wright State University**



Welcome to the spring issue of the North Central Section Newsletter! I hope your spring is going well. Over a month ago, we completed an outstanding joint spring conference with the Illinois/Indiana Section at Central Michigan University, Mt. Pleasant, Michigan. Some pictures from the spring conference have been attached to this newsletter for you to enjoy and reminisce. The highlights of this year's conference was the collaboration with the Illinois/Indiana Section, an opportunity that allowed many folks from both sections to attend, network, and exchange ideas related to engineering education. Many thanks to the conference Co-Chairs, Kumar Yelamarthi, Brian DeJong, Qin Hu, and all the volunteers from Central Michigan University who assisted in the programming and execution of this year's excellent conference. North Central Section sends a note of good wishes and special appreciation to IL/IN section, especially to

Marcelo Caplan of Columbia College in Chicago, who served as their conference chair.

Congratulations to all the winners of the Section's awards:

- **Best Teacher of the Year** - Dr. Anna Dollár, Associate Professor in the Mechanical and Manufacturing Department, School of Engineering and Applied Science at Miami University.
- **Campus Representative Award** - Dr. Kumar Yelamarthi, Assistant Professor of Electrical Engineering, School of Engineering and Technology, Central Michigan University.
- **Best Conference Papers**
  - 1<sup>st</sup> Place: Capstone Lessons to Prepare Students for the Changing World of Corporate Innovation, (Darrell Kleinke), University of Detroit Mercy.
  - 2<sup>nd</sup> Place: Energy Students' Perceptions on Global Issues and Engineering (Paul J. Weber), Lake Superior State University.
  - 3<sup>rd</sup> place: Robotics and Alternative Energies Summer Camps for High School and Middle School Students at

## ASEE NCS NEWSLETTER – June 2011

Baker College (Anca L. Sala and Tom Spendlove), Baker College

- **Best Student Papers**
  - 1<sup>st</sup> Place: SmartOutlet: A Remotely Controlled Outlet (Ross Stienecker, Andrew Swick, MaryJo Guthrie, Mohammad Alsuraihi, and Srinivasa Vemura), Ohio Northern University
  - 2<sup>nd</sup> Place: Tour Guide Robot: An Electrical Engineering Capstone Senior Design Project (Julie Mitchell, Andrew Adkins, Nathan Trela, and Kumar Yelamarthi), Central Michigan University
  - 3<sup>rd</sup> Place: Analysis of the Power Conversion Efficiency on Energy Scavenging Interface Circuits (Kevin Petsch, Robert Balma, and Tolga Kaya), Central Michigan University

Congratulations to all those that have been elected to serve on the executive board:

- **Section Chair** – Dr. Craig Gunn, Michigan State University (this is a two-year term).
- **Vice Chair** - Dr. Andy Kline, Western Michigan University (this is a one-year term)
- **Unit Director Research** – Dr. Christine Smallman, University of Toledo (this is a two-year term).
- **Unit Director Instructional** – Dr. Dan Budny, University of Pittsburgh (this is a two-year term).

As an outgoing Chair of the North-Central Section, I wish to thank the NCS Executive board and all the NCS members for your

support, patience and assistance in making my two-year tenure as chair to be very smooth and worthwhile. I am sure that Craig Gunn, who has served in multiple roles in our section including Vice Chair, Campus Representative, Reviewer, etc., is going to do an excellent job as our new Chair. Craig's role as chair will commence at the end of the 118<sup>th</sup> Annual Conference and Exposition in Vancouver, British Columbia on June 26 - 29, 2011.

It is my hope that we all continue to promote excellence in instruction, research, public service, and practice; while exercising leadership and promoting engineering education in our society. As mentioned by J.P. Mohsen, ASEE Past President, (and our key-note speaker at this year's conference), "our efforts must also be directed at increasing diversity in engineering education at providing quality products and services to our society". Through these efforts I hope that we can ultimately be able to create "a vibrant engineering academic culture for scholarly and systematic innovation in engineering education to ensure that the U.S. engineering profession has the right people with the right talent for a global society."

For next two years, I plan to continue to serve on the executive board as Past-Chair and in other roles as needed by the new Chair. I look forward to seeing many of you at the Annual Conference in Vancouver, British Columbia or at our next annual conference at Ohio Northern University in Ada, Ohio on March 23 and 24, 2012.

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See you at the next ASEE NCS Conference at

Ohio Northern University

Ada, OH

March 23<sup>rd</sup> - 24<sup>th</sup>, 2012

**ASEE NCS NEWSLETTER – June 2011**

**ASEE NORTH CENTRAL SECTION EXECUTIVE BOARD, 2011-2012**

<p align="center"><b><u>Past Chair (2010-2011)</u></b></p> <p>P. Ruby Mawasha, Asst. Dean College of Engr. &amp; Comp. Sci. Wright State University Dayton, OH 45435 (937) 775-5005 <a href="mailto:ruby.mawasha@wright.edu">ruby.mawasha@wright.edu</a></p>	<p align="center"><b><u>Chair (2011-2012)</u></b></p> <p>Craig Gunn, Dir. Comm. Program Dept. of Mechanical Engr'g Michigan State Univ. East Lansing, MI (517) 355-5160 (office) (517) 353-1750 (fax) <a href="mailto:gunn@egr.msu.edu">gunn@egr.msu.edu</a></p>	<p align="center"><b><u>Vice Chair (2011-2012)</u></b></p> <p>Andrew Kline, Ph.D., Assoc. Prof., Dept. of Paper Engr'g, Chemical Engr'g, and Imaging Western Michigan Univ. 4601 Campus Drive A217 Parkview Kalamazoo, MI 49008-5462 (269) 276-3516 (office) (269) 276-3501 (fax) <a href="mailto:andrew.kline@wmich.edu">andrew.kline@wmich.edu</a></p>	<p align="center"><b><u>Secretary</u></b></p> <p>Clare Cook, Professor Ferris State University 915 Campus Drive Big Rapids, MI 49307 (231) 591-2367 (office) (231) 591-2271 (fax) <a href="mailto:cookc@ferris.edu">cookc@ferris.edu</a></p>
<p align="center"><b><u>Treasurer</u></b></p> <p>J. D. Frampton, Chairman Engineering &amp; Science Technology Department The University of Akron 123 Schrank Hall South Akron, OH 44325-6104 (330) 972-5139 (office) (330) 972-4904 (fax) <a href="mailto:jdframpton@uakron.edu">jdframpton@uakron.edu</a></p>	<p align="center"><b><u>Newsletter Editor</u></b></p> <p>Roland Arter, Assoc. Prof. Engineering &amp; Science Technology Department The University of Akron Schrank Hall South 123E Akron, OH 44325-6104 (330) 972-6784 <a href="mailto:arter@uakron.edu">arter@uakron.edu</a> <a href="mailto:rkarter@roadrunner.com">rkarter@roadrunner.com</a></p>	<p align="center"><b><u>Zone II Chair (2011-2012)</u></b></p> <p>Douglas Tougaw, Professor and Chair - Physics Valparaiso University 161 Gellersen Center 1900 Chapel Drive Valparaiso, IN 46383 (219) 464-5027 (office) (219) 464-5065 (fax) <a href="mailto:doug.tougaw@valpo.edu">doug.tougaw@valpo.edu</a></p>	<p align="center"><b><u>ASEE Campus Representatives Coordinator</u></b></p> <p>Betsy Aller, Ph.D., Assoc. Prof., Dept. of Industrial &amp; Manuf. Engineering Western Michigan Univ. 4601 Campus Drive Kalamazoo, MI 49008-5336 (269) 276-3354 (office) (269) 276-3353 (fax) <a href="mailto:betsy.aller@wmich.edu">betsy.aller@wmich.edu</a></p>
<p align="center"><b><u>Unit Director-Research (2011-2012)</u></b></p> <p>Darrel Kleinke, Asst. Prof., Mechanical Engineering College of Engr'g and Science University of Detroit Mercy 4001 W. McNichols Rd. Detroit, MI 48221-3038 (313) 993-1140 (office) (313) 993-1187 (fax) <a href="mailto:kleinked@udmercy.edu">kleinked@udmercy.edu</a></p>	<p align="center"><b><u>Unit Director-Instructional (2011-2012)</u></b></p> <p>Kumar Yelamarthi, Ph.D., Asst. Prof. of Elec. Engr'g Dept. of Engr'g and Tech. Central Michigan University Mt. Pleasant, MI 48859 (989) 774-7164 (office) (989) 774-4900 (fax) <a href="mailto:kumar.yelamarthi@cmich.edu">kumar.yelamarthi@cmich.edu</a></p>	<p align="center"><b><u>Unit Director-Industrial (2011-2012)</u></b></p> <p>David McDonald, Prof. Dept. of Engr'g and Tech. Lake Superior State Univ. 650 W. Easterday Ave., Sault Ste. Marie, MI 49783 (906) 632-6841 (office) <a href="mailto:dmcdonald@lssu.edu">dmcdonald@lssu.edu</a></p>	<p align="center"><b><u>Unit Director-Administration (2011-2012)</u></b></p> <p>Adam Stienecker, Ph.D., Asst. Prof., Dept. of Technological Studies, Director, Robotics Center of Excellence Ohio Northern University 525 S Main Street Ada, OH 45810 (419) 772-2171 (office) (419) 772-2688 (fax) <a href="mailto:a-stienecker.1@onu.edu">a-stienecker.1@onu.edu</a></p>
<p align="center"><b><u>Best Paper Awards Chair</u></b></p> <p>Andrew Kline, Ph.D., Assoc. Prof., Dept. of Paper Engr'g, Chemical Engr'g, and Imaging Western Michigan Univ. 4601 Campus Drive A217 Parkview Kalamazoo, MI 49008-5462 (269) 276-3516 (office) (269) 276-3501 (fax) <a href="mailto:andrew.kline@wmich.edu">andrew.kline@wmich.edu</a></p>	<p align="center"><b><u>2011 Program Chair</u></b></p> <p>Kumar Yelamarthi, Ph.D., Asst. Prof. of Elec. Engr'g Dept. of Engr'g and Tech. Central Michigan University Mt. Pleasant, MI 48859 (989) 774-7164 (office) (989) 774-4900 (fax) <a href="mailto:kumar.yelamarthi@cmich.edu">kumar.yelamarthi@cmich.edu</a></p>	<p align="center"><b><u>2012 Program Chair</u></b></p> <p>David Sawyers, Ph.D., Assoc. Prof. of Mech. Engr'g Biggs Engineering 127 Ohio Northern University 525 S. Main St. Ada, OH 45810 (419) 772-2383 <a href="mailto:d-sawyers@one.edu">d-sawyers@one.edu</a></p>	<p align="center"><b><u>NCS WEBMASTER</u></b></p> <p>Kumar Yelamarthi, Ph.D., Asst. Prof. of Elec. Engr'g Dept. of Engr'g and Tech. Central Michigan University Mt. Pleasant, MI 48859 (989) 774-7164 (office) (989) 774-4900 (fax) <a href="mailto:kumar.yelamarthi@cmich.edu">kumar.yelamarthi@cmich.edu</a></p>

## ASEE 2011 North Central and Illinois-Indiana Sections Spring Conference

April 1 - 2, 2011, Central Michigan University, Mount Pleasant, MI

### HIGHLIGHTS

This conference was a little different from recent North Central Section conferences. It was a joint conference conducted with the Illinois-Indiana Section. This provided an interesting synergy and a high student attendance. Conference activities were held at one convenient location, the Bovee University Center, a pleasant convenient location. **Congratulations to the conference committee** for a successful, fun and rewarding experience!



Happy times at the conference banquet.

ASEE NCS NEWSLETTER – June 2011



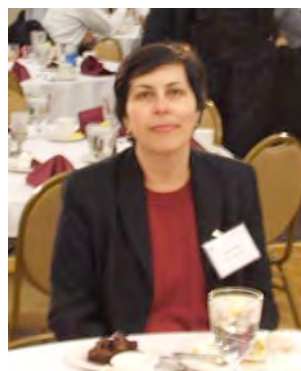
Greg Gunn, the incoming Chair and Ruby Mawasha, the outgoing Chair



J. P. Mohsen, Keynote Speaker, Past President of ASEE National



Douglas Tougaw, the Zone II Chair



Best Conference Paper, 3<sup>rd</sup> place, Anca L. Sala (above) and Tom Spendlove, Baker College



Winners, Best Student Papers



Current Chair and Past Chairs of ASEE North Central Section



Left to right, D. Budny, D. Frampton, R. Ward, G. Gunn, R. Mawasha, P. John, C. Cook



The 2011 Conference Committee