

ASEE North Central Section Newsletter

December 2011



EDITOR:

Roland Arter, The University of Akron

ASEE 2012 North Central Section Conference
March 23 - 24, 2012, Ohio Northern University, Ada, OH

Chair's Column: Craig Gunn, Michigan State University

Welcome to the Fall Edition of the ASEE North Central Section Newsletter. I am sure that the semester thus far has found you overly busy with teaching, research, and service. When one looks at the responsibilities of the members of ASEE, one sees a great bonding of those three parts of our existence. We are here to help educate the students through their careers; we are constantly researching ways to improve our performance, and we go forth into the communities around us and across the world to provide assistance in any way we can. As I look at the makeup of ASEE and its members and what they accomplish on a daily basis, it certainly does one proud. It is truly a pleasure to serve you the members of ASEE.

Now to the business at hand. Since our last newsletter, much has been in the works. We are underway on our plans for the Spring Conference at Ohio Northern University. You will be receiving information in this newsletter and in future emails providing you with all that is needed to prepare for our time in Ada, Ohio on the 23rd and 24th of March 2012. I would hope that all who are regular attendees of our annual conference would make an effort this year to invite and secure the attendance of at least one new face at the table. Regional conferences, I believe will become in the future the true incubators of formidable information on teaching and research. Ada, Ohio is relatively

close to everyone in the North Central Section of ASEE, and this should make it easily accessible to our whole membership. So, why not make those plans early, book your rooms, and convince that say at home colleague to join you for a conference, known to be hospitable and truly valuable for education and research.

I know that by now you have already submitted your abstracts to the National Conference of ASEE to be held in San Antonio, Texas from June 10-13, 2012 (or the dates when you arrive and leave!) and are awaiting your acceptance to finish that paper. There are many new things happening at next year's conference that may make attendance interesting. The "Old Picnic" activity has been replaced with a more active gathering that should entice people to come and have a good time with the larger group of ASEE members. Keep an eye out for more news on how that Sunday activity could be a lot of fun for those who have stopped going to the picnic and those who are ready for something new. We will start planning the gathering early for NCSASEE members and see what we can come up with to make an exciting fun time to start the conference in San Antonio.

Also at foot is a new look at the Campus Representatives Annual Report that your campus reps fill out each year for ASEE. This document records what each campus rep is doing at his or

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her institution and how those activities may impact ASEE nationally. I hope that you would make an effort to say Hi to your campus rep and ask if there are things that you might do to help them serve you, the section, and the national organization. ASEE is its members, and the members make all the difference in what ASEE can do as an organization.

Please remember that there is one important issue that you need to be looking at immediately. That is the issue of nominations for the “Best Teacher of the Year.” As Vice Chair, this was my responsibility. Andy Kline, your new Vice-Chair, will be soliciting nominations for this prestigious award. I am sure that Andy will find, as I did, that the quality of our teachers is absolutely fantastic. It was with great pride that I accepted the nominations and then passed them to my committee to decide upon a winner. The

joy was that all the nominations were winners. What a fantastic groups of individuals. This truly was not a job for me; it was a pleasure. With that, why not prepare a nomination of a worthy individual from your institution. I think it is time to see at least 35 nominations from across North Central. Right?

I look forward to serving you and the NCSASEE during my two-year commitment. I would hope that during this time I will always be a simple email (gunn@egr.msu.edu) or phone call (517-355-5160) away from any concerns that you have and that I can also call on you to help us with matters that are important to the section and national operation.

Thanks,

Craig Gunn, Chair of the North-Central Section

Hello, ASEE North Central Section Members:

Nominations for the ASEE NCS Outstanding Teaching Award for 2012 must be submitted using the on-line system at the ASEE Nationals Website. Members of ASEE who wish to nominate someone must log on at: <https://www.asee.org/> Select the ASEE Award Nominations topic, and scroll down and select the ASEE NCS Outstanding Teaching Award. You then select the member of ASEE NCS you wish to nominate, and upload the nomination materials to the website. Topics that must be addressed as part of the “Accomplishments” for the nominee are found below, or may be reviewed at:

<http://www.asee.org/member-resources/awards/guidelines/awards-nomination-guidelines>.

Deadline to nominate someone is January 15, 2012 for the ASEE NCS Outstanding Teaching Award. You must use the on-line system to upload your nomination materials, and the deadline to nominate someone cannot be extended.

Thanks,

Andy Kline, Vice-Chair, ASEE NCS
andrew.kline@wmich.edu



**2012 American Society for
Engineering Education
North Central Sections
Conference**

**March 23 - 24, 2012
Ohio Northern University
Ada, OH**



The 2012 ASEE North Central Section Conference will be held in the Biggs Engineering Building at Ohio Northern University. We will share an exchange of pedagogical and engineering research, information and networking in the pleasantly rural atmosphere of Ada, Oh. **For more information**, visit the conference website at <http://www.onu.edu/node/37941> or contact the **conference chair**:

David Sawyers, Jr., d-sawyers@onu.edu. (419) 772-2382.

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.

HOTEL INFORMATION

- The Inn at Ohio Northern University, Ada, OH, (419) 772-2500, www.innatonu.com.
 - Comfort Inn, Bluffton, OH, (419) 358-6000, www.comfortinn.com.
 - Hampton Inn, Lima, OH, (419) 225-8300, www.hamptoninn.com.
 - Courtyard Lima, Lima, OH, (419) 222-9000, www.marriott.com.
 - Howard Johnson Lima, Lima, OH, (419) 222-0004, www.hojo.com.
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The Call for Papers: Abstracts for papers, posters and workshops must be submitted by December 23, 2011. For details visit the submission website, <http://www.onu.edu/node/37941>.

(SEE PAGES 6 AND 7 FOR MORE DETAILS.)

Nominations needed for the Executive Board

North Central Members:

Do not wait to nominate your colleagues to the NCS executive board! I am now accepting nominations for the following executive board positions.

- **Vice Chair** - this is a one-year term.
- **Unit Director Administration** - this is a two-year term.
- **Unit Director Industrial** - this is a two-year term.

The officers will be elected at the business meeting during the annual spring conference on March 23 – 24, 2012 Ohio Northern University, Ada, OH. For a description of the executive board member duties see the bylaws of the North Central Section, which can be found at www.asee-ncs.org.

Please forward nominations to Ruby Mawasha at ruby.mawasha@wright.edu.



A Special Message

FROM THE PRESIDENT AND THE EXECUTIVE DIRECTOR OF ASEE

Don Giddens, ASEE President 2011-2012
Norman Fortenberry, Executive Director

With engineering educators feeling stresses from multiple sources—the debt crisis in Washington looming over schools of engineering by threatening basic research funding; technological advances forcing curricula to change and skills to be updated; the different characteristics and interests of incoming students compared to previous generations—ASEE must carefully consider the value of membership.

We have long felt that membership in this society is a fantastic bargain. At a fraction of the dues of other professional organization (we've held at \$69 for individual membership for 11 years) members get discounted access to recent research-based findings on engineering education in the *Journal of Engineering Education*; an included subscription to our general interest magazine, *ASEE Prism*; discounted registration for our heavily-attended annual conference and other meetings; networking and learning opportunities, and much more.

We recognize, however, that as engineering education evolves and the professional demands on our members change, we need to continually evaluate and restructure what we offer, maximizing the value to you.

At the June 2011 ASEE Board of Directors meetings, the board launched a Membership Policy Committee to take a fresh look at ASEE membership. Several ASEE board members and key section leaders are leading this dialogue. Among other things, we are looking at:

- What does ASEE do exceptionally well? What can it do better?
- How can ASEE serve its members better?
- Where are there growth opportunities?
- How does ASEE complement other professional societies?
- What can ASEE learn from other societies?
- Is membership and active participation in ASEE a "must" for you? Why or why not?
- If not, are there things ASEE can do to make it so?

The key ideas and thoughts from responses will be captured, recorded, and summarized to bring back to the board and to the Membership Policy Committee.

Our organization has significant room to grow, but this will only happen if we can clearly help our members do their jobs, if we can stay relevant amidst big changes, and if we solicit and listen to feedback. What we learn from you will in part be the building blocks of a major membership push that will begin next summer, so we look forward to hearing from you and to making ASEE into the society you want it to be. So please speak up at your March 2012 regional meeting or send us your thoughts at execdir@asee.org and please put "ASEE Value" in the subject line.

American Society for Engineering Education 2012 North Central Section Conference



March 23rd and 24th, 2012
Ohio Northern University
Ada, Ohio



Call for Papers, Posters, and Workshops “Engineering Our World through Engineering Education”

Authors from engineering and engineering technology are invited to submit papers and proposals for workshops based on their recent research activities. Papers addressing the theme “Engineering Our World through Engineering Education” will be given first priority. Other topics may include, but are not limited to:

- ABET Accreditation
- Active Learning
- Assessment
- New Degree Programs/Curriculum
- Innovations/Restructuring
- Distance Education in Engineering
- Freshman Engineering Programs
- Impact of Shrinking State Government Resources
- Industrial/Government/University Partnerships
- Technology and software in the classroom
- Innovative Education Methods
- K-12 Initiatives
- Laboratory Experiences
- Life-long Learning
- Multimedia Classrooms of the Future
- Recruitment and Retention Programs
- Ethics in Engineering Education
- Student Research Experiences
- Educational uses of cloud computing

All full length papers, extended abstracts, and posters will be accepted on the basis of the peer review process. Upon acceptance the full length papers will then be included in the conference proceedings. Authors of published work are expected to present their work at the conference to facilitate the transfer of knowledge through presentations and discussions.

To accommodate for the participation of diverse groups, this conference accepts intellectual work in the form of a full length paper, an extended abstract, a poster, or a workshop directed to faculty, K-12 educators, and/or students. To be eligible for the best paper awards the submission must occur in the form of a full length paper. Students are invited to submit papers on their senior design projects and research experiences, and compete for the Best Student Paper Award.

Preliminary Timeline:

Extended Abstracts:

Extended Abstracts Due: February 3rd, 2012
Acceptance Notification: March 2nd, 2012
Final Extended Abstract Due: March 9th, 2012

Posters and Workshops:

Posters Abstracts Due: February 3rd, 2012
Workshop Proposal Due: February 24th, 2012
Poster Acceptance Notification: March 2nd, 2012
Final Posters Abstract Due: March 9th, 2012

Full Length Papers:

Abstract Due: December 23rd, 2011
Acceptance Notification: January 6th, 2012
Draft Paper Due: February 3rd, 2012
Paper Acceptance Notification: March 2nd, 2012
Final Paper Due: March 9th, 2012

Conference Committee Chair:

Dr. David Sawyers
d-sawyers@onu.edu
(419)772-2382

GUIDELINES FOR ASEE NCS OUTSTANDING TEACHING AWARD

The Section Outstanding Teaching Award, is given by each ASEE section, with support, where possible, from local industry. The award, which focuses on outstanding classroom performance, recognizes teachers of engineering and engineering technology students and serves as an incentive to make further significant contributions to teaching.

The Award: The award consists of a certificate, prepared by ASEE National Headquarters, and an appropriate honorarium, where possible, presented by the local section. Each section shall determine its own level of the honorarium and fund the honorarium from its Banking and Accounting Services System fund. Presentations are made at the section annual meeting with notation in the ASEE Annual Awards Banquet Program.

Qualifications: Candidates may be teachers of any subject included in an ABET/CEAB accredited engineering or engineering technology curriculum. In addition to technical courses, subjects may include the humanities and social studies, mathematics and science.

The teacher, as an individual, must:

1. Possess and be able to communicate a broad and accurate knowledge of the subject area.

2. Possess self-confidence, create a feeling of harmony between self and students and be able to meet difficulties with poise.
 3. Possess a sense of proportion, stressing fundamentals and disregarding trivial detail. Give assignments that challenge students, demanding thinking in the completion of assignments.
 4. Demonstrate such an intense interest and enthusiasm for the subject area and for the enhancement of learning processes that students are motivated to their fullest capacities.
 5. Be available for advising and counseling students before and after graduation.
 6. Teach a minimum of two semester or three quarter courses per calendar year.
 7. Have considerable endorsement from students, using both regular course evaluations and individual letters of recommendation as evidence.
 8. Attend the section annual meeting at which the award is presented; and make a presentation at that meeting (or the following section meeting) to share some element of his/her success as a teacher.
 9. Possess a strong record of activity in ASEE or the educational activities of another professional society.
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The teacher's contributions to the profession should include at least three of the following:

1. Participation in the development of courses or curricula.
 2. Development of teaching equipment or development of a wider application of teaching equipment previously developed.
 3. Contribution to the improvement of laboratories or other facilities.
 4. Development or authorship of instructional material or a text that enhances the student learning process.
 5. Publication of original work, through any medium, that enhances the engineering education process or adds to the literature pertaining to teaching methodologies.
 6. Service as a mentor to other teaching faculty or participation in the conduct of seminars and workshops that are focused on helping other teachers improve their classroom effectiveness.
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A NOTE FROM THE EDITOR

Usually our newsletter focuses on our conferences, but it can also be a vehicle for sharing general news. If you are engaged in a project or activity in your college or university that you think or feel is noteworthy, please send a summary to me – pictures are even better – and I will include it in the next newsletter.

Roland Arter, Editor
arter@uakron.edu

Thank you and see you at the spring conference.

ASEE NORTH CENTRAL SECTION EXECUTIVE BOARD, 2011-2012

<p><u>Past Chair (2011-2013)</u></p> <p>P. Ruby Mawasha, Asst. Dean College of Engr. & Comp. Sci. Wright State University Dayton, OH 45435 (937) 775-5005 ruby.mawasha@wright.edu</p>	<p><u>Chair (2011-2013)</u></p> <p>Craig Gunn, Dir. Comm. Prog. Dept. of Mechanical Engr'g Michigan State Univ. East Lansing, MI (517) 355-5160 (office) (517) 353-1750 (fax) gunn@egr.msu.edu</p>	<p><u>Vice Chair (2011)</u></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) andrew.kline@wmich.edu</p>	<p><u>Secretary</u></p> <p>Clare Cook, Professor Ferris State University 915 Campus Drive Big Rapids, MI 49307 (231) 591-2367 (office) (231) 591-2271 (fax) cookc@ferris.edu</p> <p>Retired</p> <p>Position open</p>
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<p><u>Unit Director-Research (2011-2013)</u></p> <p>Christine Smallman, Ph.D. Dir. of Engineering Professional Education Programs College of Engineering The University of Toledo 2801 W. Bancroft St. – MS 310 NI 1014A Toledo, OH 43606-3390 christine.smallman@utoledo.edu</p>	<p><u>Unit Director-Instructional (2011-2012)</u></p> <p>Dan Budny, Ph.D., Assoc. Prof. Director of Freshman Engineering Program Swanson School of Engr'g University of Pittsburgh 323 Benedum Hall Pittsburgh, PA 15261 412-624-6474 (office) 412-624-2827 (fax) budny@pitt.edu</p>	<p><u>Unit Director-Industrial (2010-2012)</u></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) dmcdonald@lssu.edu</p>	<p><u>Unit Director-Administration (2011-2012)</u></p> <p>Robert Ward, Professor Civil Engineering Ohio Northern University Room 102, Biggs Engr'g Bldg Ada, OH 45810 (419) 772-2399 (office) (419) 772-2404 (fax) r-ward@onu.edu</p>
<p><u>Best Paper Awards Chair (2011-2012)</u></p> <p>Kumar Yelamarthi, Ph.D. Asst. Prof. of Elec. Engr'g School of Engr'g and Tech. Central Michigan University Mt. Pleasant, MI 48859 (989) 774-7164 (office) (989) 774-4900 (fax) kumar.yelamarthi@cmich.edu</p>	<p><u>2011 Program Chair</u></p> <p>Kumar Yelamarthi, Ph.D., Asst. Prof. of Elec. Engr'g School of Engr'g and Tech. Central Michigan University Mt. Pleasant, MI 48859 (989) 774-7164 (office) (989) 774-4900 (fax) kumar.yelamarthi@cmich.edu</p>	<p><u>2012 Program Chair</u></p> <p>David Sawyers, Ph.D., Assoc. Prof. of Mech. Engr'g Ohio Northern University 525 S. Main St. Ada, OH 45810 (419) 772-2382 (office) d-sawyers@one.edu</p>	<p><u>NCS WEBMASTER</u></p> <p>Kumar Yelamarthi, Ph.D., Asst. Prof. of Elec. Engr'g School of Engr'g and Tech. Central Michigan University Mt. Pleasant, MI 48859 (989) 774-7164 (office) (989) 774-4900 (fax) kumar.yelamarthi@cmich.edu</p>

Memories from the...

ASEE 2011 North Central and Illinois-Indiana Section Conference



To the 2011 Conference Committee:

Many thanks for a fantastic conference.

From the ASEE North Central Section

