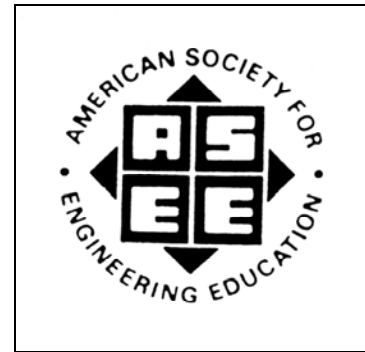


ASEE North Central Section Newsletter

December 2010



EDITOR:

Roland Arter, The University of Akron

ASEE 2011 North Central and Illinois-Indiana Section Conference April 1 - 2, 2011, Central Michigan University, Mt. Pleasant, MI

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



Welcome to the fall issue of the ASEE NCS (North Central Section) newsletter. I hope your fall is enjoyable and that the quarter/semester is moving on smoothly.

This is my final year of a 2-year term as your Chair of the North-Central Section. I want to thank the NCS Executive board and all the members for your support, patience and assistance in making my tenure very smooth and worthwhile. This year, we were able to successfully host the exciting 2010 Spring North Central Section Conference at the University of Pittsburgh.

At the last Spring North Central Section Conference a few changes were made on the 2010-2011 Executive Board. Craig Gunn, Michigan State University was re-elected as Vice-Chair; David McDonald, Lake Superior State University was elected as Unit Director Industrial; Adam Stienecker, Ohio Northern University was elected as

Unit Administration; and Kumar Yelamarthi, Central Michigan University was elected as Program Chair for our 2011 spring conference. At the 2010 ASEE Annual Conference in Louisville, KY we were approached by Indiana-Illinois Section regarding the possibility of co-hosting a joint ASEE 2010 North Central and Illinois-Indiana Section Conference. At the 2010 Executive Board Fall meeting on October 29, 2010 the board approved the ASEE 2010 North Central and Illinois-Indiana Section Conference. The entire Board working hard to provide you with a strong and active Section, as well as a quality annual conference. Thanks to all of the Executive Board members.

So, I would like to make you aware of the section's upcoming spring conference hosted at Central Michigan University, Mt. Pleasant, MI on April 1 – 2, 2011. More information regarding the conference including a "Call for papers" is included in this newsletter. Be sure to mark your calendars as April will be here soon. Stay tuned for further information on the NCS list serve, or www.asee-ncs.org.

The spring 2010 conference, hosted by the University of Pittsburgh in Pittsburgh, PA

on March 26-27 was a great success. I want to thank Dan Budny, Judith Ann Brink, and Michael Ford, and everyone at the University of Pittsburgh for a successful and rewarding conference. Awards were presented for outstanding papers, outstanding teaching, and outstanding campus representative. Congratulations to all the award winners! At the conference, we briefly made you aware of the American Society for Engineering Education's initiative to advance the Scholarship of Engineering Education through a dialogue and report, "Creating a Culture for Scholarly and Systematic Innovation in Engineering Education," a task force chaired by Leah Jamieson and Jack Lohmann. This report is available at <http://www.asee.org/about-us/the-organization/advisory->

[committees/CCSSIE/CCSSIEE_Phase1Report_June2009.pdf](#)

The NCS annually presents a number of awards to the section members at the spring conference. One of those awards is the Outstanding Teacher Award. Please take the time to consider nominating a deserving colleague, as the deadline is typically mid-January. Qualifications for the award can be found at the ASEE website (www.asee.org). All members should be receiving more information about this via e-mail.

Continue to have a good fall and I hope to see you at the 2011 spring conference at Mt. Pleasant, MI.

P. Ruby Mawasha, Chair of the North-Central Section

Hello ASEE North Central Section Members:

A most important event is arriving soon – the selection of the Outstanding Teacher of the Year for the North Central Section. The only way this individual can be selected is if you send in a nomination. Every institution has GREAT teachers! Please choose among those fantastic teachers and send in your candidate for this year's award.

The form and guidelines are available at <http://www.egr.msu.edu/fses/ASEE/>. **The due date is February 1, 2011.**

Also remember that the individual receiving this award is also eligible to move forward to compete for the National ASEE Teaching Award. This would be quite a coup for the individual's institution.

30 institutions - 150 plus departments, which means 150 Plus Outstanding Teachers. Please send nominations. Again, the information is at <http://www.egr.msu.edu/fses/ASEE/>.

Thanks.

Craig Gunn, Vice Chair NCS ASEE
gunn@egr.msu.edu



**2011 American Society for
Engineering Education
North Central and Illinois-Indiana
Sections Conference
April 1 - 2, 2011
Central Michigan University
Mt. Pleasant, MI**



The 2011 ASEE North Central Section and Illinois-Indiana Sections joint Conference will be held in the Bovee University Center at the Central Michigan University. We will share an exchange of pedagogical research, information and networking amid the placid background of Mt Pleasant, MI. For more information, visit the conference website at http://www.et.cmich.edu/asee/2011_ASEE_NC_IL-IN_Section_Conference/Conference_Home.html or contact:

General Conference Co-Chairs

Kumar Yelamarthi, Central Michigan University, kumar.yelamarthi@cmich.edu

Marcelo Caplan, Columbia College, mcaplan@colum.edu

Not all areas of the conference website are complete. If you have questions visit the website at a later date or contact Kumar Yelamarthi.

Plan ahead - Several things to seriously consider

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

Make hotel reservations early. There is a casino in town and that means that there are always a limited number of rooms.

The Call for Papers: Abstracts for papers, posters and workshops must be submitted by December 24, 2010. For details visit the submission website, http://www.et.cmich.edu/asee/2011_ASEE_NC_IL-IN_Section_Conference/Call_for_Papers.html. Formatting templates can be found at the website. *Note:* An extended, 2-page abstract must be submitted for a presentation without a paper.

SEE PAGE 5 FOR MORE DETAILS

This conference is a little different from recent North Central Section conferences in several ways. First, it is a joint conference with the Illinois-Indiana Section. Hopefully, this will provide an interesting synergy. Second, last year we were flooded with candidates for the Best Teacher Award. Craig Gunn is planning for a repeat performance. If you know a professor or instructor in higher education that consistently extends him-/herself beyond the “norm,” please submit this individual’s name as a candidate for the Best Teacher Award. **SEE PAGE 6** for the guidelines.

Conference activities will all be held at one convenient location, the Bovee University Center, and there is ample parking. Start planning now. We look forward to seeing you.

Nominations needed for the Executive Board

North Central Members:

I am now accepting nominations for the following four executive board members, which will be elected at the annual spring conference business meeting on April 2, 2011 at Central Michigan University, Mount Pleasant, MI.

- **Chair** - this is a two-year term and nominee must have served as Vice-Chair
- **Vice Chair** - this is a one-year term.
- **Unit Director Research** - this is a two-year term.
- **Unit Director Instructional** - this is a two-year term.

For a description of the executive board member duties see the bylaws of the North Central Section, which can be found at www.asee-nc.org.

Please forward nominations to Bob Ward at r-ward@onu.edu.

Thank you and see you at the spring conference.



2011 American Society for Engineering Education
NC and IL/IN Section Conference



April 1-2, 2011
Mt Pleasant, MI

Call for Papers, Posters, and Workshops

The Role of Engineering Education in an Evolving Global Community

Authors from engineering and engineering technology are invited to submit papers and proposals for workshops based on their recent pedagogical research activities. Papers addressing the theme “*The Role of Engineering Education in an Evolving Global Community*” will be given first priority and other topics may include, but not limited to:

- ABET Accreditation
- Active Learning
- Assessment
- Curriculum Innovations/Restructuring
- New Degree Programs and Curricula
- Distance Education in Engineering
- Engineering Education for a Changing World
- Freshman Engineering Programs
- Impact of Shrinking State Government Resources on Higher Education
- Industrial/Government/University Partnerships
- Innovative Education Methods
- K-12 Initiatives
- Laboratory Experiences
- Learning Communities
- Life-long Learning
- Multimedia Classrooms of the Future
- Outcomes Assessment
- Recruitment and Retention Programs
- The Place of Ethics in Engineering Education
- Undergraduate Research Experiences
- Use of technology and software in classroom
- Web Technology

All papers will be accepted on the basis of peer review process, and be included in the conference proceedings. Authors of published papers 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 different categories:

- Full Length Paper (eligible for best paper award)
- Extended abstracts
- Posters
- Workshops for Faculty
- Workshops for K-12 Teachers
- Workshops for undergraduate students

Students are invited to submit papers on their senior design projects and research experiences, and compete for the **Best Student Paper Award**

Timeline:

Abstracts Due	Dec 24, 2010
Abstract Acceptance Notification	Jan 01, 2011
Draft Paper Due	Feb 11, 2011
Workshop Proposal Due	Mar 01, 2011
Paper Acceptance Notification	Mar 04, 2011
Final Paper Due	Mar 15, 2011

Website: www.et.cmich.edu/asee

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.

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.

ASEE NORTH CENTRAL SECTION EXECUTIVE BOARD, 2010-2011

<p><u>Past Chair (2010-2011)</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>Chair (2011)</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>Vice Chair (2011)</u></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) gunn@egr.msu.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>
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<p><u>Unit Director-Research (2011)</u></p> <p>Darrel Kleinke, Asst. Prof., Mechanical Engineering College of Engr'g and Science University of Detroit Mercy 4001W. McNichols Rd. Detroit, MI 48221-3038 (313) 993-1140 (office) (313) 993-1187 (fax) kleinked@udmercy.edu</p>	<p><u>Unit Director-Instructional (2011)</u></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) kumar.yelamarthi@cmich.edu</p>	<p><u>Unit Director-Industrial (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 (2012)</u></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-stienecker.1@onu.edu</p>
<p><u>Best Paper Awards Chair</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>2010 Program Chair</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>2011 Program Chair</u></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) kumar.yelamarthi@cmich.edu</p>	<p><u>NCS WEBMASTER</u></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) kumar.yelamarthi@cmich.edu</p>

ASEE 2010 North Central Section Spring Conference
March 26 - 27, 2010, University of Pittsburgh, Pittsburgh, PA

HIGHLIGHTS



The Banquet – A time for relaxation and conversation after a successful conference.



Dr. Ruby Mawasha, Chair of the
NCS ASEE



Dr. Craig Gunn presents the Best
Teacher Award to Dr. Richard Freuler
(right), The Ohio State University



Dr. Dan Bundy (left), Beth Newburg,
Michael Ford Jr., Judith Ann Brink (not
shown) receive the Best Paper Award,
1st Place from Dr. Andrew Kline

...And more awards.

Outstanding Campus Rep – Dr. Craig Gunn,
Michigan State University

Best Paper, 2nd Place – Katrinna Vernaza, Elisa
Konieczko – Gannon University

Best Paper, 3rd Place – Daryl Santos, Jackie
Leandre, Isaak Ghebremicael – State
University of New York at Birmingham

Student Paper, 1st Place – Sean Derrick, Jeff Rauen,
Jorge Rodriguez, Betsy Aller – Western
Michigan University