



American Society for Engineering Education Illinois/Indiana Section Newsletter

Issue #4

November 2011

2012 Conference Highlights:

⇒ **ASEE IL/IN 2011 Outstanding Teacher, Scott Duncan, will speak**

⇒ **Tours of new Solar Energy Research Facility, Engineering Innovation Center**

NEW for 2012!

Panel Discussions:

⇒ **Advice for early-career faculty**

⇒ **First-year engineering programs**

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Valparaiso University to Host 2012

“Innovations in Engineering Education”

With its newly dedicated Donald V. Fites Engineering Innovation Center, right, and on-going work on the James S. Markiewicz Solar Energy Research Facility (some of its solar panels are shown below), Valparaiso University is a logical choice as the venue of the 2012 ASEE IL/IN Sectional Conference. Conference Co-Chairs Carmine Polito and Karl Zimmerman of Valparaiso University are arranging tours of these innovative facilities for the March 17 conference. The tours will be in addition to the two new panel discussions and the usual paper sessions and poster displays. The 2012 conference will be a one-day event, from 8:00 to 4:00 (central time).



Valparaiso professor of Mechanical Engineering and 2011 ASEE IL/IN Outstanding Teacher Scott Duncan will give a keynote address at the conference. His research involves using solar energy as an alternative fuel source. The Markiewicz Solar Energy Research Facility contains the only solar furnace found at a U.S. undergraduate institution; there are only three other furnaces in the U.S. The building design and process have included a number of senior design teams since 2000.



For more information about Valparaiso University (its school colors provide the newsletter's color scheme), including location and driving directions, go to <http://www.valpo.edu>.



Call for Papers: <http://ilin.asee.org/Conference2012.htm>

Papers:

11/18/11 **Paper Abstract Submission Due**

11/30/11 Abstract Acceptance Notifications

1/13/12 Draft Papers Due

2/10/12 Paper reviews Returned

2/27/12 Revised papers Due

Posters:

2/1/12 Poster Abstracts Due

3/5/12 Poster Authors Notified

Conference:

2/15/12 Early Registration Ends

3/2/12 Late Registration Ends

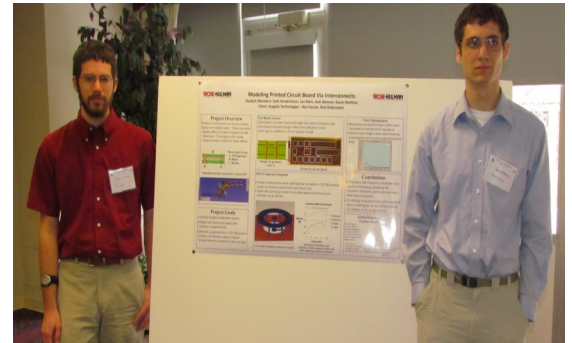
3/17/12 Conference





J.P. Mohsen, president of ASEE, 2009-2010, and professor at the University of Louisville, addresses the conference attendees at the luncheon.

2011 North Central & IL/IN Section Conference Photos



Left, Marcelo Caplan, ASEE IL/IN Section Conference Co-chair from Columbia College in Chicago, talks with student presenters. Above, students Kyson Mathiew, left, and Jon Klein represent Rose-Hulman Institute of Technology with a poster on their project "Modeling Printed Circuit Board Via Interconnects."

2011 Outstanding Paper Award



Terry Schumacher, Associate Professor of Engineering Management at Rose-Hulman Institute of Technology, presents his work at the conference. His paper, "Teaching the NPD Lifecycle to Engineering Students" can be accessed at <http://ilin.asee.org/Conference2011/Proceedings2011.htm>



Scott Duncan, Assistant Professor of Mechanical Engineering at Valparaiso University, interacts with a student in a lab. Duncan was named the **ASEE IL/IN Outstanding Teacher** and will speak at the 2012 conference.

2011 **Outstanding Service Award** winner **John J. Uhran, Jr.**, right, Professor Emeritus of Computer Science and Engineering at the University of Notre Dame.



R. Thomas Trusty II, left, **Outstanding Campus Representative**, and chair of the 2013 ASEE IL/IN Section Conference, is chair of the Department of Technology at Trine University in Angola, IN.

Do you want to be an award winner or help suggest someone deserving?

Learn how to apply/nominate others for awards in the column by new ASEE IL/IN Section Chair Sharon Sauer on page 3.

From the Section Chair:

Greetings! Let me introduce myself. I'm Sharon Sauer and hail from Terre Haute, Indiana. In June, after serving two years as the Vice-Chair, I became your Section Chair and am happy to serve the section in this capacity. I know I've met some of you and do hope I have the opportunity to meet many more of you during my two-year tenure as chair!

It has been another good year in the section. Our spring conference was held jointly with the North Central Section in Central Michigan University in Mount Pleasant, Michigan. It was an excellent conference and a great opportunity to network with some of our neighbors to the east and north. Thanks to all the wonderful organizers from Central Michigan and the North Central section. Kumar Yelamarthi served as General Conference Co-Chair while Qin Hu and Brian DeJong, all from Central Michigan University, served as Program Co-Chairs. Representing the Illinois-Indiana section among the organizers was Marcelo Caplan, Conference Co-Chair, from Columbia College, Chicago. A hearty thanks to each of you and those who worked behind the scenes as well.

During the business meeting at the Spring Conference, a **new Chair-Elect** for the section was elected. Please join me in welcoming Marcelo Caplan to the section board. Eric Johnson, Valparaiso University, was elected to serve a second term as **Treasurer**.

With the 2012 section conference, the section board is offering a **scholarship to campus representatives** within the Illinois-Indiana section to cover registration fees. We are very pleased to be able to do this and encourage all campus representatives to take advantage of the

offer. If you are one of the campus representatives, please contact me for details. The scholarships will be awarded on a first-come, first-served basis.

If you are interested in becoming more involved in the section leadership, please do let me know. At the Spring 2012 meeting, the **secretary will be elected**. Currently, we have one nomination. If you would be interested in the position, please contact me no later than February 15, 2012. All positions are two-year terms. There are non-elected positions as well. If you are interested in hosting one of our annual spring meetings, we would love to work with you.

The **2013 meeting** will be held at Trine University in Angola, Indiana. If you have questions on that meeting or would like to volunteer to help, you can contact R. Thomas Trusty II, trusty@trine.edu, who serves as the ASEE Campus Representative for Trine and won last year's Outstanding Campus Representative Award.

I would also like to take this opportunity to encourage you to pursue one or more of the **annual awards** offered by the section or if you know of someone deserving, then please do nominate them. There are two categories, the first of which requires direct involvement with the section conference to be considered. You must be a member of ASEE and Illinois/Indiana section to qualify for any of the awards.

In the first category are the Best Paper and Best Student Poster awards. To determine the **Best**

Student Poster, the student posters are judged on the quality of the poster, the significance of the work, and the ability of the presenters to convey their work and its significance to a selection committee. For the **Best Paper** award, which includes a \$250 stipend, a set of papers from the conference



proceedings are nominated by the reviewers and the program chair. The Awards Committee reads each paper and attends the presentation of each of these nominated papers. The selection is based on both the written manuscript and the presentation.

In addition, the section presents the following section awards annually: Outstanding Campus Representative, Outstanding Service, and Outstanding Teacher. The **Outstanding Campus Representative** is selected based on the work they do to promote and serve ASEE as outlined in their annual report. No additional information or submission is required. **Outstanding Service** is determined by the award committee from those who are nominated. Typically the individual has given significant service to the section. To apply for the **Outstanding Teaching Award**, which includes a \$750 stipend, you must follow the guidelines as presented on the national ASEE website (<http://www.asee.org/member-resources/awards/full-list-of-awards/section-awards#Section-Outstanding-Teaching-Award>). The deadline is **January 15, 2012**. The Awards Committee reviews the nominations and selects what they consider the most notable. The recipient agrees to present a keynote

topic of their choosing. You can find information about the nomination process at <http://www.asee.org/member-resources/awards/guidelines/awards-nomination-guidelines>. If you have questions about any of the awards or would like to nominate yourself or someone else, please contact the 2012 Awards Chair, Dr. Carmine Polito at car-mine.polito@valpo.edu. I look forward to seeing the Awards Committee being faced with tough decisions again this year!

I strongly encourage you to participate in the section at any level: attend the annual conference, submit a paper, review abstracts and/or manuscripts, nominate yourself or others for leadership positions or awards, encourage your students and colleagues to participate. We know many of you are very active at the national level and would like to see more of you support your local section. The local section is a great sounding board for ideas that are perhaps in the earlier stages of development. We love to hear what you are doing, how it impacts student learning, and your ideas for next steps. Finally, I must mention that **the student poster session is an ideal opportunity for students to present their research or design projects**. It is an interactive session and brings with it the opportunity for recognition for their hard work in addition to being an opportunity to develop further their communication skills.

Thank you for taking time to read this letter from your section chair. Have a wonderful year and I truly hope to see you at Valparaiso for the annual spring section conference!

Sharon Sauer

Interested in
participating
in the ASEE

IL/IN
Section?



- Be a campus representative for your institution
- Become a section officer



To learn how you
can volunteer,
contact

Sharon Sauer

Rose-Hulman Institute
of Technology
Chemical Engineering
5500 Wabash Ave.
Terre Haute, IN 47803

sauer@rose-hulman.edu



From the Zone Chair:

It's been a busy and productive year for the leadership team of the Illinois/Indiana section. We met up at the 2011 ASEE Annual Conference and Exposition in Vancouver, British Columbia in June, where we discussed plans for the 2011-2012 section activities. The most important of those activities, of course, is the annual IL/IN section conference. I'm very happy to report that Valparaiso University will be hosting the conference again on March 17, 2012. We're working hard to make the conference easy accessible and responsive to the needs of the faculty, graduate students, and undergraduates who will attend. Please consider submitting a paper or

helping your students come to present at the conference!

I'm also very pleased to report to you that we have arranged for hosts for the next three section conferences: Trine University will host the conference in 2013, Rose-Hulman will hold the conference in 2014, and the University of Notre Dame will look forward to our visit in 2015. Thanks very much to the faculty and administrators at those universities for supporting the IL/IN section of ASEE. If you're interested in hosting in 2016, let me know!

Finally, I'm already beginning to look forward to the 2012 ASEE Annual Conference and Exposition, which will be in San Antonio, Texas on June 10-13, 2012. If you have never been to San Antonio, it's a great city, and I know it will be a great conference.

Hope to see you at Valpo in March and in San Antonio in June!

Doug Tougaw

Doug.Tougaw@valpo.edu



Meet the officers, past, present, and future: From the left, Gary Steffan, past Awards Chair; Sharon Sauer, 2011-12 Chair; Marcelo Caplan, Chair-Elect and Section Campus Representative; Mark Johnson, Webmaster & Secretary, and Eric Johnson, Treasurer. Missing are Carmine Polito, Past Chair & Awards Chair, and Joanne Lax, Newsletter Editor.

ASEE IL/IN Officers (2011-2012)

Name	Position	Institution	Email
Sharon Sauer	Chair	Rose-Hulman	sauer@rose-hulman.edu
Marcelo Caplan	Chair-Elect & Section Campus Representative	Columbia College	mcaplan@colum.edu
Carmine Polito	Past Chair/Awards	Valparaiso University	Carmine.Polito@valpo.edu
Eric Johnson	Treasurer	Valparaiso University	eric.johnson@valpo.edu
Mark Johnson	Webmaster & Secretary	Purdue U., West Lafayette	mcjohnso@purdue.edu
Joanne Lax	Newsletter Editor	Purdue U., West Lafayette	jlax@purdue.edu