

ASABE Quad City Section Newsletter

ASABE - The Society for Engineering in Agricultural, Food, and Biological Systems

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Winter

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have speakers at these meetings is to expand our knowledge base, to learn something new that could possibly be applied at your current position. Sometimes these sessions include products producers use, or they can be indirect via components or manufacturing practices. Some might even be a little off-the-wall, but perhaps it may give you that one eureka moment. If you haven't already, take advantage of one of the many benefits of being a member of the Quad City Section by attending the local meetings.

The Spring Awards Meeting is coming up on March 22nd, and it's a great time to recognize local individuals who excel inside and outside of work. The Quad City Section of the ASABE is fortunate to have many outstanding members. Plan to attend and support your colleagues.

Hopefully spring gets here sooner rather than later, but in the mean time, the QC ASABE Young Professional Community invites you to the Engineers on Ice hockey outing on February 18th. Come on out for a great social event. The spring tour is also coming up in April. There's even a possibility of a joint event with the Central Illinois Section of ASABE, so be sure to stay tuned in.

If you have a friend, neighbor, or family member who may be interested in our meetings or ASABE in general, invite them along! We also appreciate ideas for speakers, themes, or new projects. Also, our local section is strong because of involved members like you. With our election coming soon, I encourage you to consider serving on the Executive Committee, whether you have served in the past or are a new member, it's an excellent opportunity. In

From the Chair Hello everyone! We have moved into the new calendar year and, at the end of January, we experienced a blizzard which will likely be in the record books for a while. I hope everyone fared well through the experience. Thankfully, the weather was favorable for our Winter Meeting. Although we might be buried in snow, agriculture pushes forward. If you work in the private sector or academia, you're likely supporting activities in the southern portion of the US or even in the southern hemisphere, or you might just be preparing for the spring season. The point being, there is no rest for the weary. There is a continued push from producers to improve efficiencies, provide greater control, increase capacities, and provide more valid sensor feedback to make fact based decisions. We're here to oblige.

This year's Winter QC ASABE Meeting was held on January 27th at the Viking Club in Moline, IL. With over 50 people in attendance, excellent speakers, and good food, the event was a success. I want to give a special thanks to Eric Viall for setting up the event and the rest of the Executive Committee for their work behind the scenes. One of the reasons we

the meantime, think spring thoughts. Thanks! – Joel Werling, 2010-2011 Section Chair

Winter Meeting Review The 2011 ASABE Quad City Section Winter Meeting was held at the Viking Club in Moline on January 27th with 53 in attendance. The meeting began with a technical session.

Leo Bose, Manager of Commercial Training for Case IH North America, discussed “Case IH Tier 4 Educational Efforts”. The Tier 4 diesel exhaust emission regulations requiring dramatic reductions in both nitric oxides and particulate matter have posed a major technical challenge to both on-road and off-road diesel engine manufacturers. He discussed the pros and cons of two alternative emission reduction methods: SCR (selective catalytic reduction) and EGR (exhaust gas recirculation). For more on these methods, see [New-Tier 4-tractors-create-new-decisions](#). Case IH has decided to use the SCR technology for their over 100 hp engines to provide greater power, fuel economy and reliability. The SCR technology uses what is termed “diesel engine fluid” in the exhaust gas stream to reduce the nitric oxides to nitrogen and water. The “diesel engine fluid” is a mixture of about 2/3 deionized water and 1/3 urea. Leo discussed how Case IH is introducing the use of this fluid to its customers.

Jeff Gray, Senior Product Specialist with Claas, described the design features of the new 700 series of Lexion combines ranging from the Class 6 730 to the 563 hp Class 10 770. (See http://app.claas.com/lexion2011/en-eu/lexion-770_lexion-740/fakten.php for more details. <http://www.youtube.com/watch?v=g0jb-l4C6wI> is a YouTube video showing a 700 series combine attempt at harvesting over 50,000 bushels of corn in a 10 hour period.) Three of these features received 2011 AE 50 Awards. The Claas [TELEMATICS](#) system is a management tool that collects all important combine operational data and transfers it to a web page to give the owner unlimited access using just an Internet connection. The system incorporates live remote GPS tracking with yield monitoring and mapping. The [Terra Trac](#) rubber track system now incorporates a hydropneumatic suspension system to allow 40 kph transport speeds

and improved field ride and mobility. The [MAXFLO 1200](#) is a 40-foot draper head equipped with compression augers to positively feed cut material to the combine without the added complexity of a center-feed belt (draper) and adapter. Jeff also discussed the clean sweep air intake system, features of the [deluxe cab](#), the aluminum composite side panels, and [residue management options](#).

The after-dinner speaker, Dr. William Pratt, Director of the School of Engineering at the Quad Cities Campus of Western Illinois University (WIU), first discussed the challenges and opportunities facing the engineering profession today. The local Western Illinois engineering program (see <http://www.wiu.edu/qc/Engineering/>) started in the fall of 2009 with six students and will have its first two graduates this May allowing it to pursue ABET accreditation. A long term goal is to graduate 800 to 1,000 engineers within 10 years. The program is multidisciplinary in approach and offers “tracks” in mechanical, civil, materials, robotics and control, manufacturing and quality, and engineering management areas. The program is offered as a community partnership with Black Hawk and Scott Community Colleges who provide the first two years of the curriculum with WIU providing the last two. Senior students are already working with local companies as part of their senior capstone design experience.

Section Scholarships – The Quad City Section will again be offering two \$ 500 scholarships this year. Scholarship applications are available on the Section's website at <http://www.qcesc.org/ASAE/Awards.htm>. High school seniors as well as college students are eligible to apply. Alumni, be sure that your alma mater is represented by sending a copy of the application (or the link) to the Preprofessional branch at your school. The scholarship winners will be invited to our Quad City Section Spring Meeting on March 22nd. Remember, applications are preferred in Word format and must be postmarked by March 4, 2011. – Cody Freehill, Scholarship Chair.

Section Awards – Help recognize one of our Section's outstanding members by making a

nomination for the Section's Outstanding Engineering Achievement Award, Young Member of the Year and/or Member of the Year Awards. Nomination forms for these awards are available at the Section's web site at <http://www.qcesc.org/ASAE/Awards.htm> with a due date of March 1. Past recipients of these awards are listed at <http://www.qcesc.org/ASAE/LocalRecognitionMarch2010.pdf>. This year's recipients will be recognized at the March 22nd Spring/Awards Meeting. – Dave Smith, Awards Chair

2011-12 Section Officers Needed - The Nominating Committee is looking for smart, energetic, professional members like you. We need leaders to provide your Section members with quality programs and services next year. Offices open are Chair-Elect, Treasurer, Secretary and three Nominating Committee positions. If you would like to serve as an officer or know of a qualified person to consider, let one of the members of the Nominating Committee know. Serving as an officer of the ASABE Quad City Section is an excellent way to develop your leadership skills while working with your peers to promote the engineering profession.

Nominating Committee Members can be reached at:

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Nominees will be announced at the March 22nd Section Meeting.

AMC 2011 - The 26th Annual Agricultural Machinery Conference (AMC) is moving to Waterloo, Iowa in 2011. The Conference will be held May 2-4, 2011, at the Ramada Hotel and Five Sullivan Brothers Convention Center in downtown Waterloo. Proposed topics for this year's technical sessions include: new products, Tier IV engines, fire prevention technology, product safety standards, crop sensing technology, and automation, among others. Another new addition for the 2011 Conference includes an AMC opening ceremonies event on Monday evening at 5 pm, held at the Cedar Valley TechWorks. More information is available online at www.amc-online.org - Anne Ryerson, Chair-Elect and Quad City Section Representative to the AMC Planning Committee

Closing Notes – Don't forget to cast your ballot in the ASABE national election. ASABE is again using electronic voting this year with voting closing on March 1st. See <http://www.asabe.org/2011ballot.pdf>



Eric Windeknecht

Section Member and Past Chair Eric Windeknecht has been named one of ASABE's 2011 "New Faces of ASABE" in conjunction with National Engineers Week Feb. 20-26. See <http://www.asabe.org/pr/eweek/faces/index2011.html#windeknecht> and <http://www.asabe.org/pr/eweek/faces/index2011.html>



Cary Slominski

John Deere Harvester Engineer Cary Slominski, a member of the Pacific Northwest Section, was similarly honored – see <http://www.asabe.org/pr/eweek/faces/index2011.html#slominski>



Donald E. Burrough

Donald E. Burrough, a long time ASABE member who had recently moved to Silvis to be nearer his son, Donald L. Burrough (a Quad City Section member), passed away on December 16. He had worked locally for Case and John Deere before joining Gehl where he retired as vice president of engineering in 1985. He served as the Chair of the Quad City Section for the 1962-63 year.

As of December 21st, the Section had balances of \$ 5,610.85 in its checking account, \$ 427.51 in its savings account and two certificate of deposit's valued at a total of \$ 4,632.59.

The Section will again be supporting the QC Elite Robotics Team (\$ 250 – see <http://www.qcelite.com/default.html>) and the QCESC scholarship program (\$ 200 – see

<http://www.qcesc.org/Scholarships/scholarships.htm>).

Please welcome Richard Gast (John Deere), Steve Spors (John Deere), and Adam Van De Walle (John Deere Harvester Works) as new Section members. Also the Section is glad to have the following students as new Section members: Ryan Giertz (Illinois), Drew Simonsen (Iowa State) and Paul West (Illinois).

Upcoming Events - Check the Section's web site at <http://www.qcesc.org/ASAE> for the most recent information on the Section and the following events:

February 18, 2011

Quad City Section Young Professionals Mallards Hockey Outing, iWireless Center, Moline – see <http://www.qcesc.org/ASAE/ASABE%20HOCKEY%20FLYER%2018Feb11.pdf>

February 24, 2011

Quad City Engineering and Science Council's (QCESC) 49th Annual National Engineers Week Banquet, Putnam Museum, Davenport – see <http://www.qcesc.org/Banquet/banquet.htm>

March 1, 2011

Due date for nominations for Quad City Section Young Member, Member and Outstanding Engineering Achievement Awards – see <http://www.qcesc.org/ASAE/Awards.htm>

March 4, 2011

Due date for Quad City Section's two 2011 \$ 500 Scholarships – see <http://www.qcesc.org/ASAE/Awards.htm>

March 22, 2011

Quad City Section Awards Meeting, Viking Club, Moline.

April 19, 2010 (tentative)

Quad City Section Spring Tour

May 2-4, 2011

Agricultural Machinery Conference, Ramada Hotel and Five Sullivan Brothers Convention

Center, Waterloo, Iowa. See <http://www.amc-online.org/>

August 7-10, 2011

ASABE Annual International Meeting,
Louisville, Kentucky. See
<http://www.asabemeetings.org/>

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Social Hour Sponsors

The following sponsors generously provided the beverages for the social hour at our Fall Meeting:

Aetna Bearing Company
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Carlisle Power Transmission Products
Clarkson Company
Drives Incorporated
Firestone Agricultural Tire Division
Gates Corporation
H & H Sales
Henkel Loctite Corporation
Lord Corporation
Peer Bearing Company
Sears Seating
Superior Gearbox Company
Winamac Coil Spring

Our thanks to Clifford Pim for organizing this much appreciated support activity again this year.