

ASABE Quad City Section Newsletter

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

No. 48.
2011

Fall

Inside this issue...	
From the Chair	1
Fall Meeting Review	2
AETC 2012	3
Section Scholarships	3
Closing Notes	3
Upcoming Events	4
2011-2012 Section Officers	4
Social Hour Sponsors	5

these opportunities and more information on them will be coming shortly. Please feel free to contact me if you have ideas or want to get more involved!

The first event we held this year was the Young Professionals summer outing held on July 28th at Modern Woodmen Park. It was a very hot, humid night for a baseball game - the Quad Cities River Bandits versus the Peoria Chiefs. Those who were able to endure the heat index for the entire nine innings were treated to a bottom-of-the-9th walkoff home run by the River Bandits to win the game.

From the Chair Greetings fellow ASABE Quad City Section members! I'm excited to be given the opportunity to help lead our group as this year's Section Chair. Plus I have a great group of people to work with on this year's Executive Committee. Our committee members deserve a special thanks for the time and effort they dedicate to the QC Section. We are kicking off the 2011-12 year by maintaining some of our long-standing traditions, but we also have some great new ideas to enhance our Society.

One of the things that I'm most excited about this year is introducing volunteer opportunities for our Section members. Volunteering is something that I am passionate about, as I truly believe in giving back to our local communities. I think it's also critical that we as engineers are working to ensure the future of our industry remains strong. To do this we have to get children excited about careers in science and engineering. We have a special community here in the Quad Cities area. It is important to me that, as engineers, we take opportunities to use our skills, knowledge, and engineering training and "pay it forward" to the next generation. I've been working with some of our local organizations to identify

On October 25th, the annual Fall Meeting was held at the Viking Club in Moline. It was an excellent event with over 60 people attending. We started off the evening with two excellent tech session presentations on new "high-end" electronic agricultural equipment projects. We enjoyed an overview of the cutting-edge Kinze Automation Project, and then learned about the new high-tech features of the latest John Deere tractors. The after-dinner presentation was a fascinating discussion of the future of agricultural engineering and the equipment industry, particularly in how US manufacturers have to adapt to compete in the emerging markets of India and China. This was definitely a shift in perspective from the tech sessions! Also, in the business portion of the meeting, the Executive Committee was excited to announce we are offering two \$750 scholarships for this coming year.

Traditionally we hold our Continuing Education Seminar in November. However, we were presented with an opportunity to work with the Quad City Engineering and Science Council and join them for a Hockey Night event in November.

Therefore we have decided to schedule the CE Seminar for a later date, tentatively scheduled for February 2012.

Mark your calendars now for our Winter Meeting, which we are planning for January 26th!

As always, if you have ideas or recommendations for our Section, we would love to hear them. Whether you have an idea for a special event, or a topic you would like to have us cover at a future meeting, or even if you just think there is something we could do better, let us know! The Executive Committee is always looking for new ideas. Talk to us at our next event or through our contact information listed in this newsletter.

Also, I wanted to remind you that our events are open to friends, neighbors, family members, or coworkers. We welcome anyone who is interested to participate. You don't have to be an ASABE member to join in an event!

We also have opportunities for Section members who are interested in helping out with our local ASABE Section activities this year. You can help out by doing a little or a lot, or something in between. There's a role for everyone in our Section. Contact me to find out how you can help! – Anne Ryerson, 2011-2012 Quad City Section Chair

Fall Meeting Review The 2012 ASABE Quad City Section Fall Meeting was held at the Viking Club in Moline on October 25th with 62 members and guests present. The meeting began with a technical session with two speakers.

The first speaker, Jon Sievers, Patent and Corporate Counsel for Kinze Manufacturing, discussed the “Kinze Autonomy Project” (see article and video clips at <http://www.kinze.com/news/viewNewsArticle.html?id=36>). Kinze Manufacturing is working with [Jaybridge Robotics](#) to develop autonomous agricultural equipment systems for “planting, nourishing, maintaining and harvesting” agricultural crops such as corn and soybeans. The video clips showed progress on automated planting and harvesting. Planting involves the use of a field map

to optimize the planting pattern followed by positioning the autonomous tractor-planter at a chosen starting point. Harvesting includes the combine operator issuing a command to an autonomous tractor-grain cart combination to move from a staging area to a position parallel to the combine for grain tank unloading followed by a return to the staging area. Currently a truck driver then unloads the grain cart into a waiting semi. Field testing is currently under way before the systems are commercially introduced.

The second speaker, David Hoffman, Global Tractor Platform Support Leader at the John Deere Product Engineering Center in Waterloo, discussed the first year of “Field Experience from the 8R ‘Intelligent’ John Deere Tractors” (See [brochure](#) for more details.) which include a Tier 3 compliant engine, Active Command Steering changing the steering ratio and required effort between field and transport and an IVT (Infinitely Variable Transmission) that lets the operator choose a desired forward operating speed while the tractor optimizes the engine and transmission speed settings to achieve that forward speed. JDLink telematics is a wireless communication and information system that allows remote monitoring of tractor location, fuel consumption and machine utilization through the internet. The SERVICE Advisor diagnostic feature allows dealer monitoring of the service codes generated by the tractor’s onboard systems (See [Air Filter](#) for an example.) and provides designers with machine operation data not previously available.

The after-dinner speaker, Bharat Vedak, Deere & Company Vice President for TCI and Deliver Customer Value, discussed the “New World Order” trends in agricultural and construction equipment. Still evolving engine emission requirements that vary widely throughout the world make this area extremely challenging. A challenge in agricultural machinery is how to meet the demand for increased productivity from customers in the developed world as opposed to the demand for low initial cost and low operating cost machines from customers in developing nations. As the world population increases in coming years, grain production must at least keep pace or even increase to provide diets higher in meat consumption. Water availability will

increasingly become a limiting factor. Local machinery design and manufacturing is a necessity for meeting these challenges. Construction equipment demand is greatest in China while it's unlikely the U. S. demand will ever recover to pre-2007 levels. Again local design and manufacture is a necessity. Bharat sees great opportunities for engineers in this evolving era. He challenged the audience to explore other cultures and to help motivate students to enter engineering as a profession.

AETC 2012 This year's Agricultural Equipment Technology Conference (AETC) will return to Louisville and its February dates (Feb. 13-15) before the National Farm Machinery Show. The AETC will again feature technical sessions, continuing education seminars, technical committee meetings and plenty of opportunities for networking with colleagues in the machinery industry. The 2012 AE-50 awards will also be presented.. See [AETC 2012](#) for more details.

Section Scholarships – The Quad City Section will be offering two \$ 750 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 meeting on March 27th. Remember, applications are preferred in Word format and must be postmarked by March 13, 2012.
– Cody Freehill, Scholarship Chair.

Closing Notes



Mark Sommer

Former Quad City Section Member, Mark Sommer, passed away on July 5. A native of Nebraska, Mark received his B. S. in agricultural engineering from Colorado State and his M. S. in agricultural engineering from the University of Illinois before joining John Deere in 1975. In his 36 year career with Deere, Mark worked at the Technical Center, Des Moines and Seeding before moving to Waterloo. He was an active ASABE member serving as the Quad City Section Chair for 1982-83 and as Chair of the AMC in 1989. Mark enjoyed life and driving his Corvette, Mustang convertible and his Honda Gold Wing motorcycle!

Please welcome Tony Hasenour (CNH), Emily Horn (John Deere), Tim Deutsch (John Deere), Terry Skelton (John Deere), Brian Huinker (Dell Engineering), Will Mineck (Dell Engineering) and Jeffrey Nelson (John Deere) as new Section members. Also the Section is glad to have Casey Millard (Illinois) and Evan Price (Wisconsin) as new student members.

As of October 12th, the Section had balances of \$ 3,228.10 in its checking account, \$ 444.17 in its savings account and two certificate of deposit's valued at a total of \$ 4,644.20.

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:

November 15, 2012

QCESC/ASM Hockey Outing sponsored by Quad City Section's Young Professionals group – see <http://www.qcesc.org/HockeyNight.htm>

January 15-17, 2012

Quad City Farm Equipment Show, QCCA Expo Center, Rock Island - see <http://www.qccaexpoenter.com/>

January 26, 2012

Quad City Section Winter Meeting

February 13-15, 2012

ASABE Agricultural Equipment Technology Conference, Louisville, Kentucky – see [AETC](http://www.aetec.org/)

February 23, 2012

50th Annual Engineers Week Banquet, Quad City Engineering and Science Council, Isle of Capri Waterfront Convention Center, Bettendorf – see <http://www.qcesc.org/>

February 2012 (tentative)

Quad City Section Continuing Education Seminar

March 1, 2012

Deadline for Quad City Section Member of the Year, Young Member of the Year and Outstanding Engineering Achievement Award nominations.

March 13, 2012

Deadline for Quad City Section Scholarship applications.

March 27, 2012

Quad City Section Awards Meeting

April 17, 2012 (tentative)

Quad City Section Spring Tour

May 7-9, 2012

Agricultural Machinery Conference, Ramada Hotel and Five Sullivan Brothers Convention

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

July 29 – August 1, 2012

[ASABE International Meeting](http://www.asabe.org/) , Dallas, Texas

ASAE Quad City Section Officers 2011-2012

Chair:

Anne Ryerson
John Deere Harvester Works
Ph. 309-748-2100
RyersonAnneE@JohnDeere.com

Chair-Elect:

Will Corman
John Deere Harvester Works
Ph. 309-765-2048
CormanWillD@JohnDeere.com

Past Chair:

Joel Werling
John Deere Seeding Group
Ph. 309-765-2227
WerlingJoelC@JohnDeere.com

Secretary:

Kevin Kohls
John Deere Harvester Works
Ph. 309-756-8240
KohlsKevinN@JohnDeere.com

Treasurer:

Jim Shoemaker
Deere Moline Technology Innovation Center
Ph. 309-765-4529
ShoemakerJimM@JohnDeere.com

Nominating Committee:

Lindsay Hodnefield
John Deere Harvester Works
Ph. 309-765-2050
HodnefieldLindsayL@JohnDeere.com

Greg Long
John Deere Harvester Works
Ph. 319-748-2118
LongGregR@JohnDeere.com

Stephen Corban

John Deere Harvester Works
Ph. 309-765-2179
scorban2@gmail.com

WerlingJoelC@JohnDeere.com

Awards:

David Smith
Ph. 309-755-8934
dave.smith8633@sbcglobal.net

QCESC Liaison:

Joel Werling
John Deere Seeding Group
Ph. 309-765-2227
WerlingJoelC@JohnDeere.com

Communications:

Marilyn Dumolien
John Deere Seeding Group
Ph. 309-765-7699
DumolienMarilynA@JohnDeere.com

Scholarship:

Cody Freehill
John Deere Harvester Works
Ph. 309-765-2282
FreehillJustinC@JohnDeere.com

Community Outreach:

Open position

Suppliers Coordinator:

Open position

Continuing Education:

Mehari Tekeste
John Deere ADV & Soils Lab
Ph. 309-748-8714
TekesteMehari@JohnDeere.com

Young Professionals:

Open position

Membership:

Will Corman
John Deere Harvester Works
Ph. 309-765-2048
CormanWillD@JohnDeere.com

Social Hour Sponsors

The following sponsors generously provided the beverages for the social hours at our meetings this past year:

Newsletter Editor:

David Smith
Ph. 309-755-8934
dave.smith8633@sbcglobal.net

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

Program:

Anne Ryerson
John Deere Harvester Works
Ph. 309-748-2100
RyersonAnneE@JohnDeere.com

Our thanks to Clifford Pim for his past work in organizing this much appreciated support activity.

Eric Viall
John Deere Harvester Works
Ph. 309-748-2140
ViallEricN@JohnDeere.com

Joel Werling
John Deere Seeding Group
Ph. 309-765-2227