

ASABE Quad City Section Newsletter

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

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Spring

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From the Chair Hello fellow ASABE QC Section members! I cannot believe that another season of ASABE activities has come and went so quickly. It has been an amazing year and I can't thank everyone enough for giving me the privilege of serving as your Section Chair for this past year. It has been a true honor and joy to lead such a well esteemed group as the QC ASABE. Before I officially sign-off with my last column as Section Chair, I wanted to share some of the highlights from our most recent meeting.

The Spring Awards Meeting was an excellent event this year. Even though our attendance was lower than previous years at 43 members and guests, it was a great evening. I want to thank our program committee for setting up an excellent evening of speakers. The Army Corps of Engineers, MetoKote and Bodycote did a superb job of sharing their expertise with our members. After the sessions, we had the opportunity to recognize all the great accomplishments and skills of our members at our annual awards ceremony. Congratulations to all the awards recipients. They were all well deserved. A

testament to how well equipped our Section is with great accomplished people is the number of awards we are able to hand out every year.

I want to give a special thanks to Joel Werling and Eric Viall for all their hard work this past year in organizing the meetings for our Section. I believe they carried on the tradition of supplying the Section with great entertainment and valuable information.

At the Awards Meeting, we were also able to announce the candidates (winners because all were uncontested) for next year's Executive Committee. I am able to tell you all that we will have yet another excellent group to lead this Section next year. I want to wish all the Executive Committee good luck in the upcoming year.

Before I end my last column, I wanted to make sure that I thanked a few people that made this year possible with all the challenges that have been thrown at us this year. This year our Section and I have been faced with some interesting tests. We unfortunately lost our Chair-Elect and Secretary this year due to job and family commitments but our Section members stepped up to fill in the voids with no issues. Joel Werling especially stepped up to the plate and served as the Secretary and as the new Chair-Elect. So thanks so much Joel for your willingness to step in and help out. I also wanted to thank Dave Smith for always being the man behind the scenes that keeps the Section on the road to speak throughout the year. It goes without mention that Dave is an integral part of making this Section successful every year. So thanks again so much Dave for all your hard work. Finally, I want to thank Mark Bowers for his 3 years of service in the

Section Chair duties. Mark, you have done an outstanding job and I truly believe that the Section is much better because of your service.

Once again I want to thank everyone for giving me the distinct honor of serving as your Section Chair. I hope that I met everyone's needs and I look forward to seeing you all again in the fall. Enjoy your summers. – Eric Windeknecht, 2009-2010 Quad City Section Chair

Awards Meeting Review The 2010 ASABE Quad City Section Awards Meeting was held at the Viking Club in Moline on March 23rd with 43 members and guests present. The meeting began with two concurrent technical sessions.

In one technical session, Samantha Heilig, a Park Ranger with the Corps of Engineers Rock Island District's Lock & Dam 15 Visitor Center, gave an informative "History of the Rock Island Rapids" with details on the development of the 4.5, 6 and 9 foot channels including Lock & Dam 15 which was completed in 1933. See <http://www.mvr.usace.army.mil/Brochures/HistoryNavImprovementsRockRapids.asp> for more details. She noted one 15 barge tow provides the transport equivalent of 870 semi trucks or two 100 car trains. Over half of the 18+ million tons passing through Lock & Dam 15 in 2009 were agricultural commodities.

In the second technical session, Tim Wietz, General Manager at the East Moline MetoKote facility, discussed Demand Rate Electrocoat by MetoCoat. The benefits of electrocoat were covered which include high corrosion resistance, 100% coverage with a uniform coat, and a very environmentally friendly process among others. Demand Rate is a new system for <1 ft² parts that is a modular, plug and play ecoat system requiring less than 600 ft² and that can be installed on site. See <http://www.metokote.com/coatingTechnologies/electrocoating.asp> for more details.

Nick Bugliarello, General Manager at the Bodycote Melrose Park Division, talked about the history of heat treating metals from 1200 BC to the present day, including some very unusual early quenching

processes. He discussed many current heat treatment processes with pros and cons and detailed specifications – see <http://mcna.bodycote.com/index.asp?sid=process&mn=frames.asp%3Fsid%3Dprocess%26content%3Dprocess.asp%3FID%3D327>

The first portion of the after-dinner program recognized the members serving the Section this past year as officers and Member Service Representatives. The membership longevity and patent award recipients are listed below. In addition, Section members serving on national committees were also recognized and are also listed below. The awards program concluded with presentation of the Section's three local awards.



Brad Keleher

Brad Keleher is the recipient of the 2010 Outstanding Engineering Achievement Award in recognition of his instrumental role in applying virtual reality (VR) techniques to off-road equipment design. A pioneer in VR applications at John Deere and within the farm machinery industry, Brad started using a university developed software package in the mid 1990's to check operator visibility on crawlers. To better immerse the user and assure a realistic viewing position, Brad integrated a position tracking system and head mounted display with the software. Later Brad worked with researchers at Iowa State University on many research projects aimed at increasing Deere's VR capabilities. Brad designed the Immersive Collaboration (IC) Laboratory to be a part of the new John Deere Moline Technology Innovation Center that opened in 2001. This lab included a multi-screen projection display system. Brad has also developed processes for and helped initiate VR

lab capabilities for many of John Deere's factories. Brad formed and leads a Community of Practice of VR technology experts in John Deere to share VR knowledge and experience and make collaborative decisions about technology strategy, equipment, and suppliers. He continues to grow the use of VR technology in John Deere as new VR facilities are installed and existing facilities are updated throughout the world. Brad served as the 1993-94 Chair of the Quad City Section and also has served on the SAE Board of Directors.



Joel Werling

Since he became a member of the Quad City Section in 2006, Joel Werling has become a very active and devoted member first serving as the Section Secretary for 2008-2009. When the elected Secretary was not able to attend the first meetings of the 2009-2010 year, Joel immediately stepped in and again served as Secretary. Joel volunteered to be a member of the Section's Program Committee for this year and has worked diligently to provide technical session and after dinner speakers for our Fall, Winter and Awards Section Meetings. In addition, when the Section's Continuing Education Seminar was moved from the Winter of 2010 to the Fall of 2009 without a designated Chair, Joel stepped forward and was instrumental in developing a successful Continuing Education Seminar on Highly Accelerated Testing. When this year's Chair-Elect resigned in last fall, Joel agreed to also take over this responsibility including serving as the Section's 2010 AMC program planning representative. Joel is very deserving of recognition as the Section's Young Member of the Year for his consistent willingness to step forward and provide outstanding support and leadership for the Section's activities.



Lyle Stephens

After five years with the USDA in Manhattan, Kansas working on grain handling, drying and storage, Lyle Stephens joined the Deere & Company Technical Center in 1976 where he began a 31 year career. During his first five years with Deere, Lyle conducted applied research on the effects of crop properties on harvesting machine performance. From 1981 to 2001, he directed and conducted research in applying soil dynamics concepts to seeding, tillage and earthmoving equipment involving both soil bin laboratory and field experimentation. He developed new tillage tool shapes less sensitive to wear than previous designs and designed new crop residue management devices for seeding machines leading to seven patents. From 2001 till his retirement in 2007, he investigated business opportunities for new machines or processes in the use of biomass and managed Deere participation in federal and university biomass research projects. Following his retirement, he has worked with the Department of Energy, providing engineering expertise and industry experience to their research program planning. Lyle has provided outstanding leadership to his profession through his service and leadership within ASABE. Lyle served on the ASAE Board of Directors as its Publications Director before being elected Professional Vice President in 1996. He also served the Power and Machinery Division through chairing the 1998 Agricultural Equipment Technology Conference suggesting the successful move of this Conference to being held in conjunction with the National Farm Machinery Show in Louisville. Also active in the Quad City Section, Lyle served as its Chair in 2001-2002. Lyle served as ASAE President in 2002-2003 effectively dealing with a wide variety of issues affecting the Society. His contributions to his

profession have also been recognized by four ASABE Presidential citations and his election as an ASABE Fellow. Lyle's career and ASABE contributions well qualify him as the Section's 2010 Member of the Year.

Photos from the March meeting are included as a separate file at the Section web site. See http://www.qcesc.org/ASAE/March_2010_Awards_Meeting.pdf

Recognition – The following Section members were recognized at the March Awards Meeting:

- 40 year member: Donald L. Burrough
- 50 year member: Page L. Bellinger
- 50+ year members: Jim Doering (51)
Walt Roll (51)
Bernie Romig (51)
Larry Gay (53)
John Ackley (56)
Ken Thomas (58)
Francis Brinkmeyer (59)
Jim Graham (59)
Roy Harrington (59)
Don Hartwig (59)
Tom Wilkinson (59)
- 60+ year members: Wayne Slavens (62)
Milton Hedquist (66)
Etlar Henningsen (67)
- 70+ year member: Don Kuska (71)

All the March Awards Meeting attendees were glad to see Don Kuska in attendance. Don, one of the Section's most faithful members, very seldom misses a meeting.

Patents (recipients in alphabetical order by last name):

Klaus E. Becker Harvested crop processing unit with number of circulation circuits depending on throughput

- Bruce A. Coers Height control for a multi-section cutting platform in an agricultural harvesting machine
- Bruce A. Coers Header float arm load compensation
- Bruce A. Coers Draper belt construction to control translation
- Bruce A. Coers Sectionalized belt guide for draper belt in an agricultural harvesting machine
- Bruce A. Coers Seamless draper belt
- Bruce A. Coers Reel finger for use on a harvesting header for an agricultural machine
- William L. Cooksey
Orlin W. Johnson Positive operating combine unloader discharge door arrangement
- Chad A. Dow Harvested crop remains output apparatus for a combine that can be switched between broad distribution and ejection elbow operating mode
- Chad A. Dow Straw chopper for combine with adjustable stationary knife bank
- Kevin W. Hoehn Seeding implement with front rockshaft-mounted fertilizer openers
- Kevin W. Hoehn Integrated clutches for a seeding machine
- Orlin W. Johnson Reverse drive engaging mechanism for a feeder of an agricultural combine
- Orlin W. Johnson Automatedly foldable and

William L. Cooksey unfoldable grain tank extension and cover for agricultural harvesting machine

Orlin W. Johnson
William L. Cooksey Cable actuated pin latching mechanism with automatic cable tension and pin release features

Donald K. Landphair Seed hopper and routing structure for varying material delivery to row units

Brian J. Maas
Alan D. Sheidler Agricultural working vehicle with air scoop for air intake system

Nathan A. Mariman Seed singulator adjuster for a seed meter

Craig E. Murray Windrow forming construction

John F. Reid Vehicular guidance system having compensation for variations in ground elevations

John F. Reid Method for processing stereo vision data using image density

John F. Reid Vision-aided system and method for guiding a vehicle

Bernard E. Romig Steering mechanism for self-propelled mower

Gordon L. Salley Center conveyor front coupler for a draper cutting platform

Jerry A. Sandau Mower knives with staggered serrations

Jay D. Schroeder Grain saving, directable unloader boot assembly

Kevin S. Schwinn Combine cleaning fan control system

Joseph A. Tejjido
Jeffrey A. Turigliatti Torque sensing assembly having dual stage spring compression for an agricultural machine

John C. (Chad) Yagow
Michael W. Mossman Auger stripper assembly for a combine corn head

Our thanks to Kelly Leary and Nancy VandeVoorde of the Deere & Company Patent Department, Penny Fitzpatrick and Rusty Unterzuber of the Deere & Company Engineering Standards Department and Vannette Azarian of the CNH Patent Department for their aid in compiling the above list of patent recipients.

Service on an ASABE National Committee in 2009-2010:

Mark Bowers	Craig Murray
Shannon Brockmann	Carol Plouffe
Daniel Burke	Glenn Pope
Jason Carlson	Jared Puvak
Michael DeSpain	Dirk Reum
Kevin Ehrecke	Chris Schneider
Michael Gacioch	Michael Senneff
Larry Gay	Barrie Smith
Thomas Haar	David Smith
Michio Kise	Timothy Stevens
L John Koutsky	Mehari Tekeste
David Lienemann	Travis Unterzuber
Ryan Mackin	Wayne Ward
David Mattes	David Wolak
Paul Mosher	Grant Wonderlich
Jared Murdock	Chad Yagow
	Brad Yanke

Election Results – The officers elected to serve for the 2010-2011 Quad City Section year are:

Joel Werling – Chair
Anne Ryerson – Chair-Elect
Eric Windeknecht – Past Chair

Mehari Tekeste – Secretary
Jim Shoemaker – Treasurer
Will Corman – Nominating Committee
Lindsay Hodnefield – Nominating Committee
Greg Long – Nominating Committee

Thanks to this year’s Nominating Committee for their work in identifying the candidates!

Scholarship Recipients – This year, the Quad City Section awarded two \$ 500 scholarships. Anna Oldani (currently a University of Illinois sophomore from Rockford, Illinois) and Michelle Brus (currently a senior at Davenport West High School and an Iowa State freshman in the fall) were chosen as the recipients and recognized at the March meeting.



Anna Oldani

Each submitted an essay which follows with Anna’s first: “As a student in Agricultural and Biological Engineering (ABE), I enjoy the fortunate prospect of a career that directly impacts not only the health of our global community but also the health of our planet. As a freshman, fellow engineering students often questioned what exactly an Agricultural and Biological Engineer does. Often, they would say, “Oh, so you’re into corn and stuff. What do you plan on doing with that?” After explaining the many facets of ABE including the exciting opportunities available due to growing environmental awareness and sustainability challenges, they were often left speechless. Still, I had my doubts, and I kept medical school as a constant option, supporting a nagging doubt within.

Beginning in the fall semester of my freshman year, I joined ASABE. Through my active participation in the student branch, I met and became close with the upperclassmen. Soon, I was seeing friendly faces

throughout our 30,000 plus student community. As a member in ASABE, I found a small family within the already close-knit ABE department that could offer advice for the Big-Ten school and research and professional opportunities throughout campus and abroad. I met ABE professors and began discussing possible research projects and study abroad trips. I decided to begin an undergraduate research project with Dr. Mary-Grace Danao, examining the efficacy of ionic liquids and deep eutectic solvents in the dissolution of lignocellulosic biomass. Essentially, by developing efficient, biodegradable, non-toxic solvents capable of dissolving lignocellulosic biomass, one can tap into the abundant amount of unused cellulose such as corn stover and other agricultural residues. This cellulose, made more accessible through the treatment with solvents, can then be more easily fermented into ethanol. A second research project that I began this past fall semester focuses on algal-based biofuels. We are developing a system in coordination with a local power plant to feed the flue gas through our algae reactors, allowing the algae to sequester the CO₂, growing more quickly and more abundantly. We are also investigating various methods to dewater the algae and various solvent extraction methods to turn the algal lipids into crude oil.

The research I participate in directly reflects my interests and aspirations for a future career. I have always had a deep interest in conservation and protection of natural resources and the environment. Once I gained a fuller understanding of the wide scope of Agricultural and Biological Engineering, I began to see the bigger picture. I began to recognize the important and pivotal role Agricultural and Biological Engineers play in this changing world. With the onset of a booming global population, food, water, and energy shortages have become real concerns. Agricultural and Biological Engineers have a direct responsibility in developing technologies and solutions to these global challenges. My lifelong passion for the environment combined with the knowledge I will gain through my Agricultural and Biological Engineering degree will provide me with the essential tools I will need to become a successful and effective member of the Agricultural and Biological Engineering industry. As a member of ASABE, I hope to extend my

participation and continue my responsibility to provide valuable work for the betterment of our environment and natural resources.”

In acknowledging receiving the scholarship, Anna wrote “To increase the international experience of students within the department, I will be leading a group of students on a visit to Italy this summer. I have planned the entire trip, focusing on providing opportunities for students to discover the differences in the agricultural industry as well as witness both the latest technologies and the oldest traditions. We will be visiting Ecodeco, a firm that has been specializing in waste to energy conversions for decades and is now advancing the “Third Generation of Agriculture.” Students will also get to tour Case New Holland, going inside the engineering design, development, and production facilities. Several universities have also agreed to host us, giving us an opportunity to interact with international students and see some of the work being done at other universities. Finally, students will enjoy the factory tours for several traditional Italian foods, witnessing techniques used for centuries.

Finally, I would like to thank the ASABE Quad City Section for this generous scholarship. As a younger sibling of another college student, every scholarship helps lessen the burden of college tuition. I am thankful for the opportunities I have enjoyed here at the University of Illinois, and I plan to use the excellent foundation and preparation I have received to help develop solutions to the increasing energy, food, and environmental challenges our world faces. Agricultural engineers will play an instrumental role in answering these challenges and must strive to discover the solutions.”



Michelle Brus

“Agriculture has played an important role in my life. Growing up on my family’s farm has immersed me in the world of agriculture beyond simply enjoying the picturesque rural setting. I understand that the proper use and management of our agricultural systems and natural resources are essential to our survival and to our ability to feed future generations. My strong interest in math and chemistry combined with my background in agriculture lead me to pursue a degree in Agricultural Engineering. My goals, both short-term and long-term, correspond to the goals of the American Society of Agricultural and Biological Engineers.

My immediate college plans are to earn a degree in Agricultural Engineering and become fluent in Spanish. As an undergraduate, I want to expand my understanding of global food and water systems and the constraints that continue to challenge them. During my college career, I hope to travel to other countries to see first-hand how they manage their natural resources and agricultural systems. The program of study in which I am enrolling at Iowa State University combines technology and hands-on exposure to examine, maintain, and improve our natural resources, environment, and agricultural systems

Upon graduation, my goal is to be involved in developing and implementing methods that will improve the food and water systems in developing countries. As I work with a wide range of situations and opinions, I want to be a positive voice in the ever-changing industry of agriculture. Further on in my career, I can see that there are many possible ways I can use my Agricultural Engineering degree to advance the application of engineering to agricultural systems. I can work in the food and biosystems industries, which would include developing biofuels and processes and equipment for the food industry. There’s also the environmental aspect of agriculture, which focuses on water and air quality, waste systems management, and sustainable agriculture. This would involve designing agricultural structures and environmental control systems for livestock production or crop storage. I can also design and improve agricultural machinery.

I look forward to earning my engineering degree and am excited about the prospects that lie ahead."

After receiving notice of being one of this year's recipients, Michelle wrote "I would like to thank you for the scholarship you awarded me. This money will be very helpful to me as I start college this fall. I'm excited to begin my career in Agricultural Engineering." Michelle was also a recipient of one of two QCESC scholarships for which the Section donated \$ 200.

AMC – Don't forget the 25th Annual Agricultural Machinery Conference to be held May 3-5 in Cedar Rapids (See <http://www.amc-online.org/>). The Quad City Section is one of three technical society local sections sponsoring this event. The Section's Chair-Elect (Joel Werling this year) serves as a member of the Planning Committee which is always on the lookout for volunteers.

The Section receives a portion of the net proceeds from the AMC which allow us to offer the Section Scholarships and allow us to hold the line on Section Meeting registration fees. So your support of the AMC is encouraged both as an excellent source of technical information and networking contacts but also as a way to support the Quad City Section.

Closing Notes



Wayne Slavens

Section Member Wayne Slavens, a retired John Deere Harvester Works engineering manager, passed away on March 18th. A 62 year Member of ASABE, Wayne was named an ASAE Fellow in 1975.

Congratulations to Chad Yagow who was elected to a two year term on the ASABE Board of Trustees starting after the 2010 Annual International Meeting in Pittsburgh. Chad will be joining Section Member Shannon Brockmann on the Board.



In January, Chad was named as the 2010 AETC (Agricultural Equipment Technology Conference) Most Valuable Player. In the photo, ASABE President Ron Yoder is presenting the award, an engraved Louisville Slugger baseball bat, a tradition that reflects AETC's origins. As Chair of the 2010 AETC Planning Committee, Chad provided valuable leadership during AETC's move from Louisville to Orlando, where it was held in conjunction with AgConnect.



In the photo, QCESC (Quad City Engineering and Science Council) President Scott Bullock is presenting the 2010 QCESC Senior Engineer of the Year Award to Section Member Jay Olson at the QCESC's 48th Annual National Engineers Week Banquet held on February 19th. See http://www.qcesc.org/Awards_2010.htm#Senior1_Engineer_of_the_Year:



Section Member John Ackley and his wife Marion (shown with their wedding photograph) participated in the Honor Flights to Washington on April 16-17. Both John and Marion served in World War II with John being a P38 pilot and Marion a nurse.

Section Member David Smith served as a Professor-for-a-Day in the Agricultural and Biological Engineering Department at the University of Illinois on April 19.

Please welcome Michael Noga, Doak McDaniel, Tyler Zoeller, Trevor John Fransene, Bryan Yanke and Evan Bush as new members of the Quad City Section.

As of March 4th, the Section had balances of \$ 1,372.96 in its checking account, \$ 442.69 in its savings account and two certificate of deposit's valued at a total of \$ 4,597.11.

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:

June 3-6, 2010

1/4 Scale Tractor Design Competition – Expo Gardens, Peoria. See <http://www.asabe.org/students/tractor/asacomp.html>

June 17-19, 2010

John Deere Two-Cylinder Expo XX, Waterloo, Iowa. See <http://www.two-cylinder.com/events.htm>

June 20-23, 2010

ASABE Annual International Meeting, Pittsburgh, Pennsylvania. See <http://www.asabemeetings.org/>

June 24-27, 2010

Hart Parr-Oliver Collectors Association National Summer Expo, Mt. Pleasant, Iowa. See <http://www.hartparroliver.org/events.html>

August 2010

Antique Tractor Show, Village of East Davenport. See <http://www.villageofeastdavenport.com/text/events.htm#tractorshow>

August 31, Sept. 1-2, 2010

Farm Progress Show, Boone, Iowa. See <http://www.farmprogressshow.com/ME2/Audiences/Default.asp>

Sept. 2-6, 2010

Midwest Old Threshers Reunion, Mt. Pleasant, Iowa. See <http://www.oldthreshers.org/>

Sept. 9-11, 2010

John Deere Fall Fest 2010, noting the 50th Anniversary of the New Generation tractors, Waterloo, Iowa. See http://www.deere.com/en_US/attractions/fallfest/index.html

September 17-19, 2010

Antique Engine & Tractor Working Farm Show, rural Geneseo, Illinois. See <http://www.atkinson-engine-tractor-assoc.com>

October 26, 2010 (tentative)

Quad City Section Fall Meeting

November 16, 2010 (tentative)

Quad City Section Continuing Education Seminar

January 2011

ASABE Agricultural Equipment Technology Conference, Orlando, Florida

January 16-18, 2011

Quad City Farm Equipment Show, QCCA Expo Center, Rock Island. See <http://www.qccaexpocenter.com/>

January 27, 2011 (tentative)

Quad City Section Winter Meeting

March 22, 2011 (tentative)

Quad City Section Awards Meeting

April 19, 2010 (tentative)

Quad City Section Spring Tour

May 2-4, 2011

Agricultural Machinery Conference, Crowne Plaza Five Seasons Hotel, Cedar Rapids, Iowa. See <http://www.amc-online.org/>

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Social Hour Sponsors

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

Program:

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Kondex Corporation
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SKF – Sealing Solutions
Spaulding Composites Inc.
Stockwell & Associates, Inc.
Superior Gearbox Company
The Timken Corporation
Winamac Coil Spring

Our thanks to Clifford Pim for organizing this support activity.