



WI ASABE SECTION
www.wiasabe.org



The Society
for
engineering
in
agricultural,
food, and
biological
systems

June 2016

Section Meeting

WEDNESDAY July 13th

Fort Atkinson, WISCONSIN

Schedule of Events

Hoards National Dairy Shrine and Museum tour (2pm)

Digi-Star design and production facilities tour (4pm)

DINNER and BUSINESS MEETING at Digi-Star (5pm)

To Attend the Tours and/or the Dinner Meeting

Please REGISTER

by Friday, July 1st

Number of registrants will impact dinner menu.

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Message from the Chair



Hello everyone!

With this newsletter we welcome a new slate of officers to the WI Chapter of the ASABE. Wish us all well as we endeavor to guide our chapter over the next year. Your current slate of officers are:

Name	Email
Chris Horton	chris.horton@digistar.com
Doug Reinemann	djreinem@wisc.edu
Garritt Boettcher	BoettcherGarrittC@JohnDeere.com
Brian Luck	bluck@wisc.edu
Sam Vorpahl	sam.vorpahl@gmail.com
Justin Orrick	justin.orrick@kuhn.com
Rebecca Kallal	rebecca.kallal@kuhn.com
Rod Zimmerman	rod.zimmerman@kuhn.com
Bob Pofahl	bob@reaeng.com
Joe Shakal	joseph.shakal@uwr.edu
Scott Dietsche	sdietsche@macdon.com
Nate Dudenhoeffer	nate@dudesag.com
Bryan Rowntree	bryan.rowntree@kuhn.com

If you're curious about what the functions of the officers are with the chapter more information can be found at the ASABE website here:

http://www.wiasabe.org/?page_id=98

As always we're open to any suggestions from anyone in the Chapter as to activities, locations, and speakers for upcoming meetings. If you have something in mind, please contact Doug Reinemann.

We believe the upcoming meeting in Fort Atkinson at the Hoard's Museum should be interesting. With Wisconsin's agricultural roots and identity so strongly tied to the dairy industry this opportunity to meet at the Hoard's museum should provide us with opportunities for some interesting conversation.

We would also like to welcome the following new members to the Wisconsin ASABE Chapter. We hope to see you at one of our upcoming meetings!

Xi Chen
 Jessica L. Drewry
 Ryan Gutenberger
 Andrew Hrobar
 Caroline G. Sawyer
 Ryan J. Seffinga
 Breanna M. Sinotte
 Ben A. Slaby
 Stephen Gerard Vey

My email is always on so if anyone wants to contact me please don't feel shy.

Best regards,
 Chris Horton
 Chair

July 13th Meeting Details

2:00 pm Tour of Hoards National Dairy Shrine and Museum

401 Whitewater Avenue, Fort Atkinson, WI 53538

https://www.dairyshrine.org/nds_museum.php

4:00 pm Tour of Digi-Star design and production facilities

W5527 Hwy 106 Fort Atkinson, WI 53538

www.digi-star.com

5:00 pm Dinner and business meeting at Digi-Star

Registration: \$25 (no charge to student members)

Please register ASAP as number of attendees will affect dinner menu.
Registration closes Friday, July 1st.

Register online at:

<http://www.asabe.org/meetings-events/2016/07/wisconsin-section-meeting-tours.aspx>

Secretary's Report

10June2016

The March 30th, 2016 ASABE Wisconsin Section Meeting and Annual Awards Banquet was held in conjunction with the WPS Farm Show in Oshkosh with the meeting and banquet at La Sure's Banquet Hall following the show. Prior to the meeting many members attended the Farm Show.

Ahead of a buffet style dinner Dr. Laura Ward Good, UW-Madison Soil Science Department, gave a presentation on "Nutrient Management Planning and Tracking on Wisconsin Farms". The presentation provided great insight into the efforts and policies that have been implemented to monitor and manage nutrient run-off from Wisconsin Agriculture, specifically large livestock operations. The presentation generated good discussion and a nice array of questions.

A short business meeting was held. Officer reports and old business were quickly reviewed and approved. Jennifer Sanford from the UW-Madison provided a recap of the Midwest Regional Rally that was hosted by the Madison student Chapter. New business officer reports included a detailed review of our current membership from Shane Williams. Membership has increased 9%! Other business items included a reminder of upcoming events:

AMC Engineering Conference – April 19th-21st 2016, Waterloo, IA
2016 Annual International Meeting-July 17th-20th 2016, Orlando, FL

Following the meal and business items the meeting concluded with the announcement and honoring of the 2016 Section award winners, Milestone anniversaries, and announcement of new officers. Below in this newsletter is a summary of all awards. Also visit the Wisconsin section website (www.wiasabe.org) for pictures and details.

Respectfully Submitted,

Garritt Boettcher
ASABE Wisconsin Section Secretary 2016-2017

Treasurer's Report

10June2016

Opening Balance \$5477.98

Revenue:

Date	From	Memo	Amount
01/04/2016	ASABE HQ	Membership Dues Reimbursement	\$10.00
01/25/2016	ASABE HQ	Membership Dues Reimbursement	\$1120.00
02/05/2016	ASABE HQ	Section Dues Rebate	\$226.50
03/31/2016	Meeting Revenue	Pay at Door (30March2016)	\$480.00
04/21/2016	Meeting Revenue	Pre-Pay (30March2016)	\$280.00
04/21/2016	ASABE HQ	Membership Dues Reimbursement	\$285.00

Total: \$2401.50

Expenses:

Date	To	Memo	Check #	Amount
03/30/2016	LaSure's	March Meeting Meal	616	\$1102.56
03/30/2016	Brian Luck	Reimbursement for Awards	615	\$375.71
03/30/2016	Joshua Harmon	Graduate Student Award	614	\$150.00
03/30/2016	Jennifer Sanford	Undergraduate Student Award	613	\$150.00
03/30/2016	Dylan Heimmermann	Eng. Tech Award	612	\$150.00
03/16/2016	Matthew Keifer	Meeting Reimbursement	611	\$20.00
03/14/2016	Jill Huenink	Meeting Reimbursement	610	\$20.00
05/09/2016	US Bank	New Checks (Qty. 120)	NA	\$32.45

Total: \$2000.72

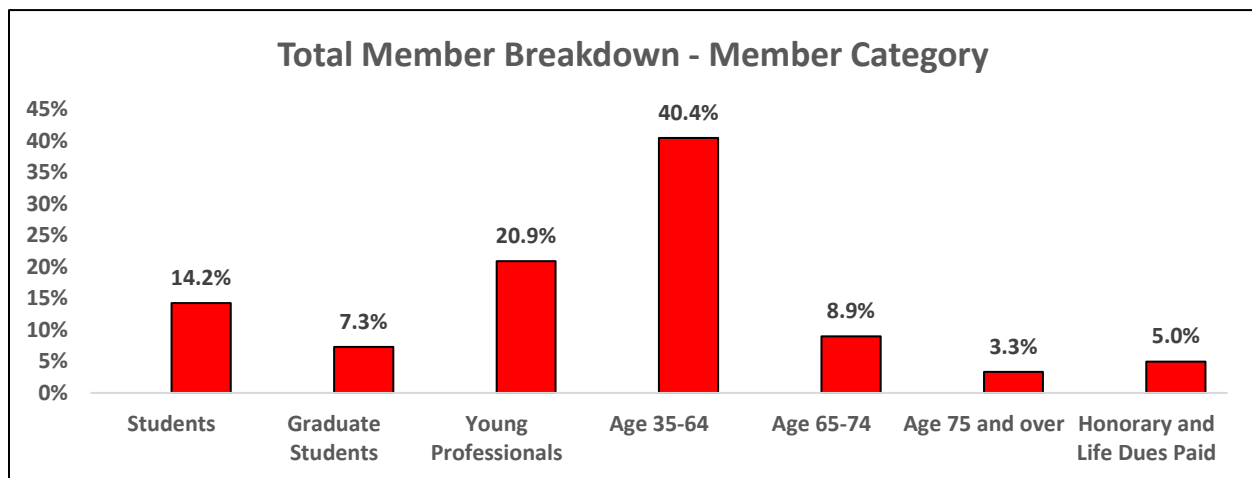
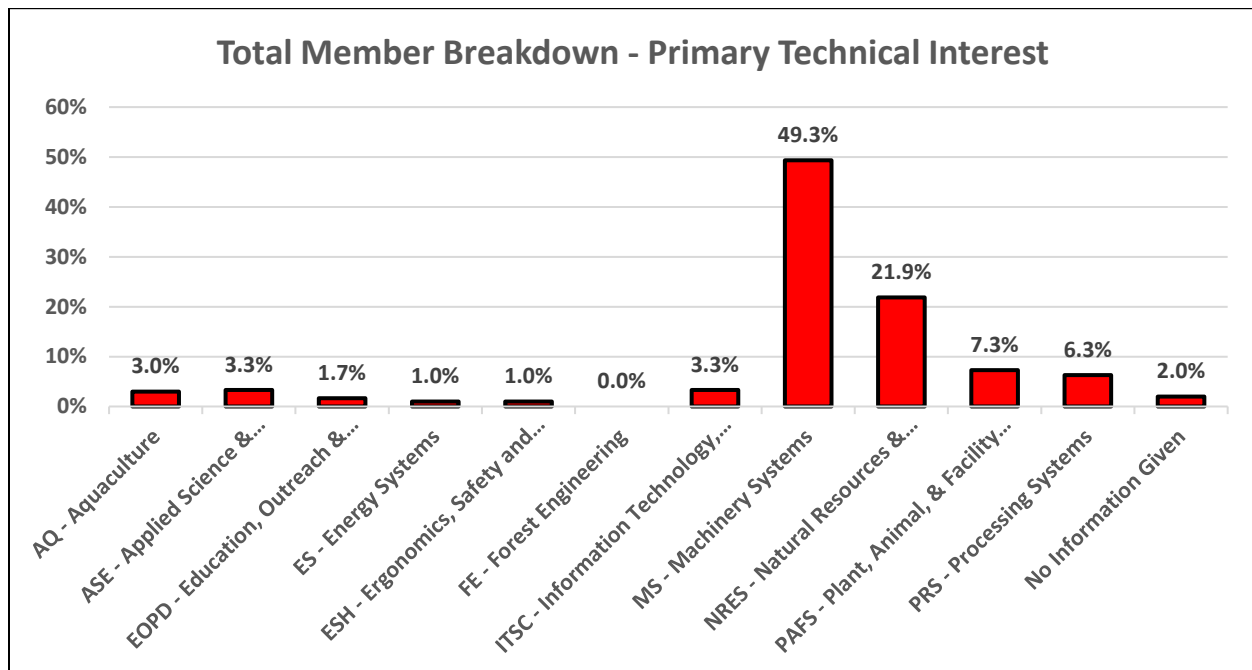
Closing Balance \$5878.76

Respectfully Submitted,

Garritt Boettcher
ASABE Wisconsin Section Treasurer 2016-2017

Snapshot of the Wisconsin Section of ASABE

As of the March 2016, the Wisconsin Section of ASABE consisted of 302 members, an increase of about 9% compared to March of 2015. The charts below break the total membership down by the primary technical interest and member category (age range) that is listed on each member's ASABE profile. Your member profile can be updated at any time by logging into www.asabe.org (using your member ID number and password), navigating to the "My Membership" tab, selecting "View My Profile", and clicking 'edit'.



The Benefits of an Active ASABE Membership

As agricultural and biological engineers, our involvement with the production and distribution of food, feed, fuel, and fiber directly impacts the quality and quantity of life that the world has and can offer. Our responsibilities, as engineers of and within these systems, often pull us in multiple directions and require us to be efficient and effective problem solvers. In order for us to face these challenges head on, we need to maintain and build upon the technical prowess that we developed during college.

Membership in ASABE helps to put the local and global challenges that we face into perspective and reminds us that we are not tackling these issues alone. The Society as a whole, as well as the Wisconsin Section, consists of members with a wide variety of experiences and backgrounds, and membership is a great way to stay in touch with those that share in our agricultural and biological engineering interests. The Wisconsin Section is our liaison to the latest news and activities of the Society at the national level.

Continued membership and involvement within the Society provides us with numerous personal and professional benefits. As ASABE members, we are able to take advantage of numerous opportunities, including the following:

- **Network** and keep in touch with peers of similar interests. These peers can be great personal resources outside of your area of expertise, as well as references that help to secure employment in the future.
- Witness the study, development, and refinement of **forward-looking technologies** and concepts. The arenas of industry, government, and academia are all represented within ASABE.
- Continue your **professional development** via continuing education events and technical presentations. Members typically receive discounted rates for conference and meeting registration.
- Maintaining an active, professional membership can help you receive additional “pay” or benefits in the form of **sponsored membership** and event registration. Help yourself and your employer be competitive in today’s ever-changing markets.
- Play an active role in the development of **technical and professional standards** that affect the activities of ASABE and other societies and industries. There are over 200 technical and leadership committees within ASABE.
- Explore Society resources to prepare yourself for **professional licensure**. ASABE offers a tremendous amount of information and planning resources via exam preparation webinars, PE exam study guides, and even a mentorship program for first time test-takers. Society involvement and activities are also valuable tools for renewing and maintaining a license.

If you feel like your needs as a Society member are not being met or if the Wisconsin Section can better facilitate those needs, please contact the officer team. We always welcome suggestions and new opportunities for Section meeting tours, speakers, or content. Your feedback is important in allowing us to maintain a schedule of engaging and interesting meeting programs so that our members receive the maximum value for their membership.

2016 WI ASABE Awards

The following Wisconsin ASABE members were recognized for their contributions to engineering and their communities at the March 30th meeting:

Career Achievement Award:

Dr. David R. Bohnhoff, P.E., received the ASABE WI Section Career Achievement Award for a lifetime of teaching, research and general practice in the field of agricultural engineering.

Dave was born and raised on his family's dairy farm in Plymouth, WI and attended UW-Platteville where he graduated with a B.S. Agricultural Engineering degree in 1978. In 1979-80 he worked for Gehl Company in West Bend, WI on the design of a new series of skid steer loaders. He returned to the family dairy farm in 1981 and married his wife Rhonda in 1982.

Dave's affiliation with UW-Madison began when the recession hit the agricultural industry hard and he decided to return to school. He completed his master's degree in agricultural engineering in 1985 while conducting research on separated manure solids, and his Ph.D. in agricultural engineering in 1988 with innovative work on vertically, mechanically-laminated lumber assemblies. Dave was offered the faculty position left open when his major professor Dr. Calvin Cramer retired in 1987. He developed and taught his first course (Agricultural Structures and Environment) that fall.

During his early years with the department, Dave's instructional work was primarily dedicated to the Department's Construction Administration (CA) program for which he developed and taught courses titled Residential Construction, Building Codes and Materials, Metal Building Systems, Commercial Construction, and Construction Methods. Dave also advised the majority of the 130 students in the program, served as faculty adviser to the Construction Club, and assembled the documents that resulted in ACCE accreditation of the CA major. Despite his efforts, the CA program was terminated as a major in 1995.

In 1995-96 Dave served as Research and Product Development Manager for Lester Building Systems in Lester Prairie, MN.

Upon his return to the Department, Dave became responsible for teaching Engineering Principles of Biological Systems (the BSE program's entry course) as well as the program's capstone design



courses. He also taught Wood as a Building Material, Structural Design of Agricultural Facilities, and later added Sustainable Residential Construction, and Introduction to Engineering Design.

Outside the University, Dave is best known for establishing the most prolific post-frame building research program in the world. This includes numerous projects involving mechanically-laminated assemblies, metal-clad wood-frame diaphragms, post and pier foundations, construction tolerances, thermal envelope design, and building failures. He has drafted and/or revised several ASABE Standards, been the principal author on well over 100 technical publications, and wrote the National Frame Building Association (NFBA) Post-Frame Building Design Manual.

Dave has served on numerous ASABE, NFBA and UW-Madison committees. Within the Biological System Engineering Department he is known for his long-time dedication to undergraduate student recruitment and advising.

Dave and his wife Rhonda have three sons (Benjamin, Christian and Aaron) and own Happy Roots Farm - a 14 acre parcel of land that was part of Dave's original family dairy farm in Plymouth. The farm is currently dedicated to the organic production of fruit, nuts and vegetables. Upon Dave's retirement from UW-Madison (planned for December, 2017), animals will be added to the mix at Happy Roots Farm.

Biological Systems Engineering Graduate Student of the Year:

Mr. Joshua Harmon received the ASABE WI Section Biological Systems Engineering Graduate Student of the Year Award. Since his arrival at the University of Wisconsin-Madison in August, 2014 Joshua has been highly involved in Biological Systems Engineering departmental activities and ASABE. Joshua has been a graduate student advisor to the ¼ Scale Tractor Team, attend two AETC conferences in Louisville, KY, and was instrumental in the planning and execution of UW-Madison's hosting of the ASABE Pre-professional Midwest Regional Rally. Joshua has also assumed the role of laboratory manager in the Bioinstrumentation Lab, under the direction of Dr. Brian Luck, managing up to three undergraduate student workers at any given time. Joshua has done all this while making exceptional progress on his research project. Joshua has maintained a GPA above 3.0 during his graduate studies and is planning to graduate in December, 2016. He has accepted a position with CNH Global and will begin work there in 2017.



Biological Systems Engineering Undergraduate Student of the Year:

Ms. Jenna Sanford received the ASABE WI Section Biological Systems Engineering Undergraduate Student of the Year Award. Jenna served as the ASABE Webmaster/Public Relations Officer in 2014 updating the website and Facebook page, helping as much as possible with organizing tours and supporting other officers. She served as Midwest Regional Rally chair on the club officer team all of 2015 into 2016. She organized the trip last year to Nebraska's Midwest Regional Rally and was the primary planner for the 2016 Midwest Regional Rally hosted at UW-Madison. She also competed in the AGCO Student Design Competition with the Hazelnut Cracker Senior Design project at the ASABE International meeting (2015), where they won first place. Jenna graduated in May, 2015 and is working as a Food Engineer in Utah for Ardent Mills.

**Agricultural Engineering Technology Student of the Year:**

Dylan Heimmermann received the ASABE WI Section Agricultural Engineering Technology Student of the Year Award. Dylan will be a senior in Agricultural Engineering Technology at University of Wisconsin – River Falls. He is involved with ASABE, UWRF Ag. Industries Club, and the ¼ Scale Pulling Team. Dylan volunteers with the “Power Tool Drag Race” during FFA Trivia Day and he also volunteers with 4-H at home in Outagamie County, WI. Dylan completed an internship with MacDon where he learned a great deal about engineering testing and would like to pursue a position as a product specialist or a position in field testing upon graduation.



2016-2017 Wisconsin ASABE Section Officers

Chair

Chris Horton
chris.horton@digi-star.com

Vice Chair Program

Doug Reinemann
djreinem@wisc.edu

Vice Chair Awards

Brian Luck
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Vice Chair Public Relations

Justin Orrick
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Vice Chair Membership

Sam Vorpal
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Secretary and Treasurer

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Webmaster

Nate Dudenhoeffer
nate@dudesag.com

Nomination Committee

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Scott Dietsche
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Career Development Committee

Rod Zimmerman
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Rebecca Kallal
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Past Chair

Bryan Rowntree
bryan.rowntree@kuhn.com

