

Newsletter Highlights

- Fall Meeting
- Schedule of Events
- Directions
- Call for Awards Nominations – WI Section
- Secretary/Treasurer's Report
- October 5th Meeting Registration -Complete & Send

ASABE WISCONSIN SECTION

The Newsletter of the Wisconsin Section of
the American Society of Agricultural
Engineers



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

www.wiasabe.org

October 2011

2011-2012 Editor: Bill Bassett
email:

bill.bassett@kuhn.com

ASABE WI Section 2011-2012

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WISCONSIN SECTION MEETING WEDNESDAY, OCTOBER 5TH 2011 WORLD DAIRY EXPO

The ASABE Wisconsin Section meeting will be held on Wednesday, October 5th in conjunction with the World Dairy Expo. The show is held every year at the Alliant Energy Center in Madison. The show runs from Tuesday October 4th – Saturday October 8th, with exhibits open from 9:00am to 5:00pm.

The show features modern dairy equipment and the newest dairy technology and innovations, including animal health supplies, milking systems, feeding products, forage handling and manure equipment plus embryos, semen and genetic research. It also has North America's top dairy cattle competing for honors in seven breed shows.

The show will be followed at 2:00pm by a tour of Briess Malting in Waterloo. Briess Malting is one of the few family owned companies in the world and handcrafts more specialty malts, brewers grade malt extracts, brewers flakes, and other ingredients for brewing beer.

The tour will be followed by a social hour at 4:00 at Carp's Landing in Lake Mills, a presentation on Hops by James Altweis from Gorst Valley Hops at 5:00, a buffet style dinner including smoked brisket and baked chicken at 6:00 and a business meeting.

Schedule of Events/Information

World Dairy Expo

The Alliant Energy Center, Madison, WI

Exhibit Hours: 9:00am-5:00pm

Show and Judging Hours: See www.worlddairyexpo.com for specific times

Admission is \$8/person or \$25 for a season pass. Parking is free.

Briess Malting Tour - **2:00-3:00**

901 West Madison St. Waterloo, Wisconsin 53590 (920) 478-2166

www.briessmalting.com

This information was taken from the Briess Malting website:

In the early 1990s try as we might, we simply couldn't make **enough malt** to keep up with the rapidly growing U.S. craft brewing industry. So we did what anyone else would have. We bought another malthouse.

Just the right size - Of course, being a specialty malting company meant we didn't want a large malthouse that churns out massive amounts of commodity base malt. As **luck** would have it, a malthouse just a little over a stone's throw away from our Chilton, Wisconsin, location came up for sale.

Its size fit our needs quite well, so the late Roger Briess purchased the malthouse in **Waterloo, Wisconsin**, about a 2 hour drive from Chilton.

Originally built in 1902, just a year after the Chilton malthouse had been built, the Waterloo malthouse experienced some difficulties in its early years including financial problems and a fire that **completely destroyed** it in 1907. More fires and other difficulties lead to its closure throughout all of Prohibition.

Let the good times roll - The **end of Prohibition** of 1933 spelled good times for the Waterloo malthouse, which was remodeled, expanded and began operating again. The facility again changed hands and underwent several renovations prior to its purchase by Briess in **1995**.

Two years after purchasing it, a **new roasting operation** with multiple drum roasters was built directly next to the Waterloo malthouse, making the Waterloo malting operation capable of producing the entire line of Briess specialty malts.

In 2005, supply was outpacing demand for malt and the Waterloo malthouse was closed. In 2008, after setting idle for three years, Briess re-commissioned the malthouse, after an extensive remodeling project, in response to increased demand for malt.

In reopening the malthouse, Director of Malting Operations Dave Kuske said, "We recognized the shift in supply and demand on a global scale. And we recognized the supply shortages this could cause to smaller, craft breweries. Our focus is the **North American craft brewing industry**, and we want to assure an adequate supply of specialty malts for them."

“The Waterloo facility is unique in the flexibility it provides us,” Briess President Chief Operating Officer Gordon Lane said at the time the malthouse reopened. “The plant is capable of producing a wide range of specialty malted products. And we’re also pleased that a number of skilled malthouse operators rejoined the company which made it possible to produce immediately after renovations were completed.”

Today, the Briess malthouse in Waterloo is operating at capacity. Other features at the plant include railroad service for cost effective transportation of raw materials and finished goods, and an environmentally friendly waste water treatment system.

Social Time / Presentation / Dinner / Business Meeting

Carp’s Landing

103 S. Main St. Lake Mills, WI 53551 (920) 648-3005

www.carpslanding.com

Social time: 4:00 – 5:00 pm

Program Speaker: 5:00 – 6:00 pm

Topic: “A brief background on hops and equipment challenges associated with production”

James Altweis – Director at Gorst Valley Hopps

www.gorstvalleyhops.com

James is a horticulturist by education, obtaining his masters degree from the University of Wisconsin-Madison focusing on energy balance within high value crop production. This led to a position with an agricultural chemical company where James designed and executed field research studies on dozens of high value crops all over the world.

His time spent in commercial agriculture granted James years of experience in working with

growers directly, understanding the practical and technical aspects of high value crop production as well as the business and financial side. He learned early on that no matter how innovative or technically successful an idea may be if it cannot be translated into value to the grower it has little chance of success.

In his travels James studied various crop production and distribution systems, making note of what provided the most value to the growers while minimizing energy inputs and promoting sustainability. Eager to implement his ideas at home, he spent a great deal of time researching high value crops that could be grown in the Upper Midwest. It was during this period that the hops market underwent a large fluctuation and numerous brewers in the region were having difficulty securing the raw materials they needed. James knew that hops were once produced in Wisconsin and could be once again.

James has a bachelors degree in biology with a focus in molecular chemistry from the University of Toledo, in Toledo Ohio.

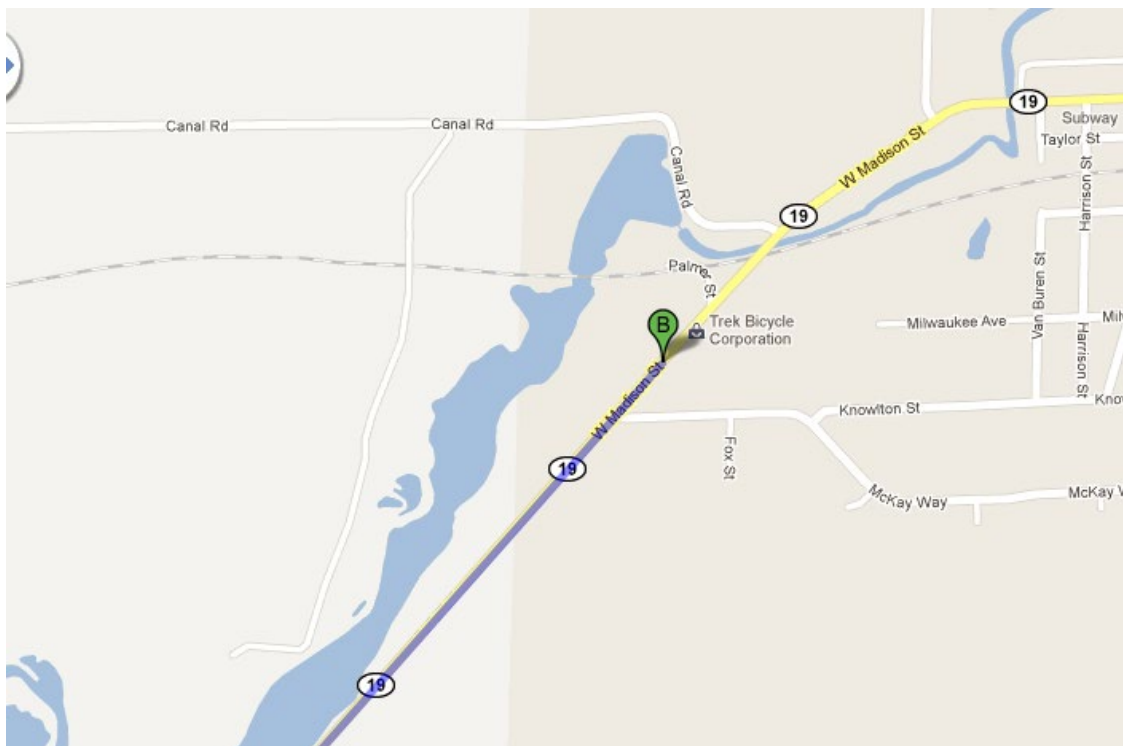
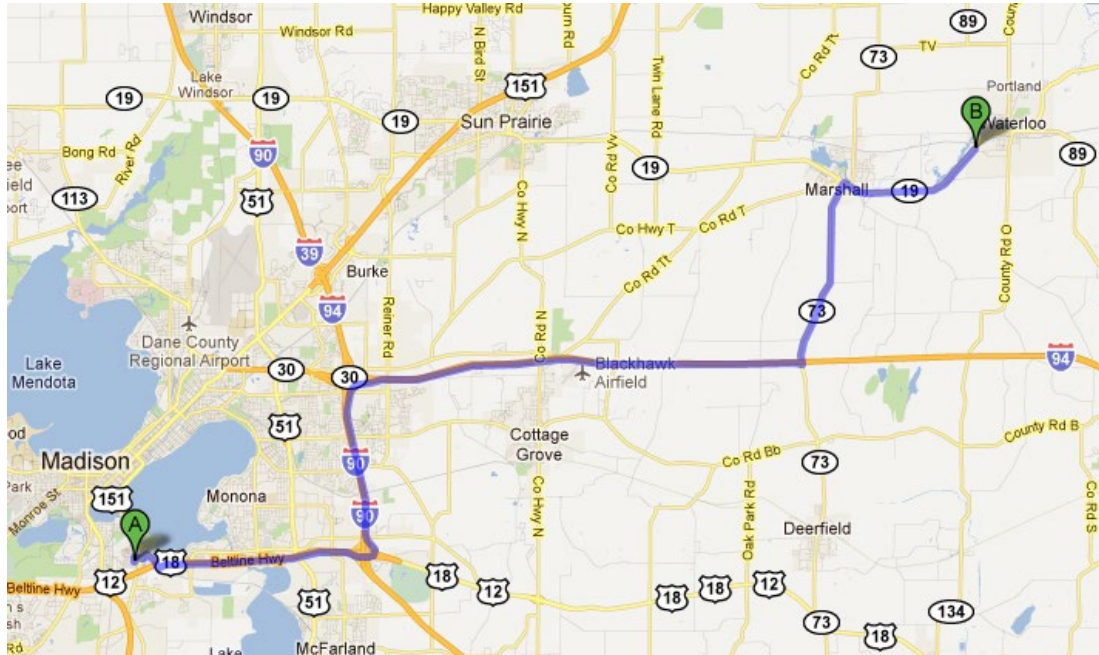
Dinner: 6:00 pm

Business Meeting: 7:00 pm

Directions to Briess Malting

Address - 901 West Madison St. Waterloo, Wisconsin 53590

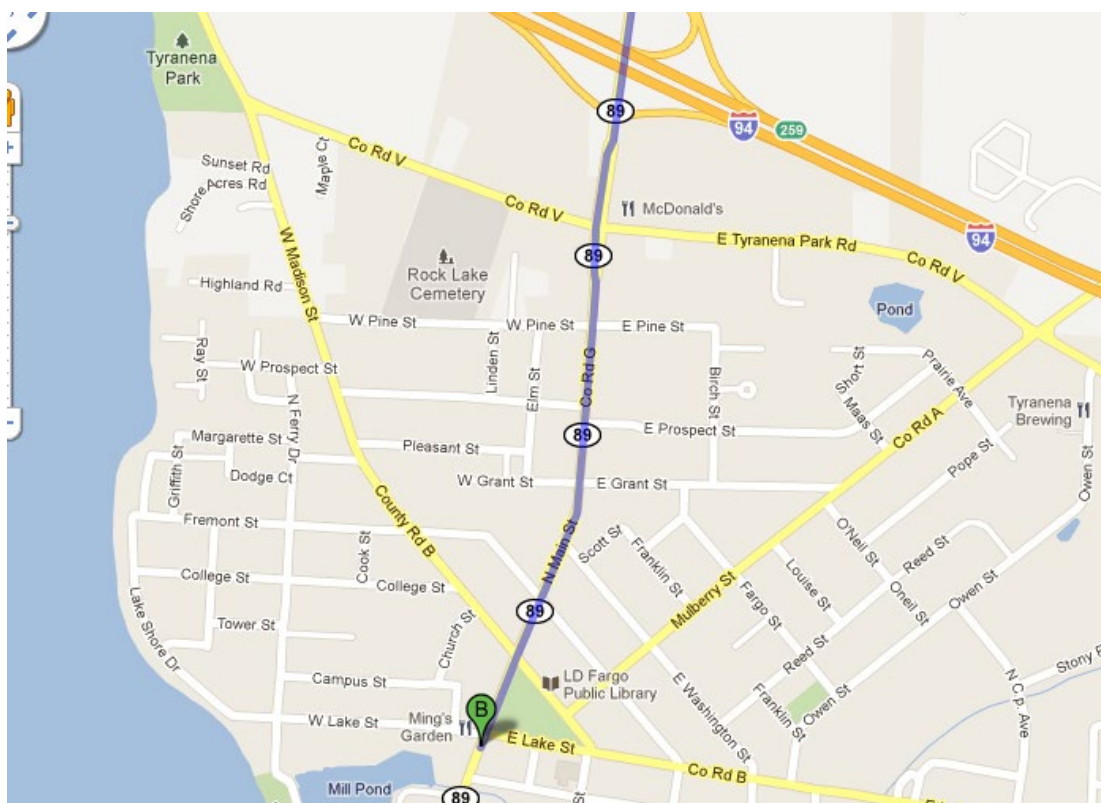
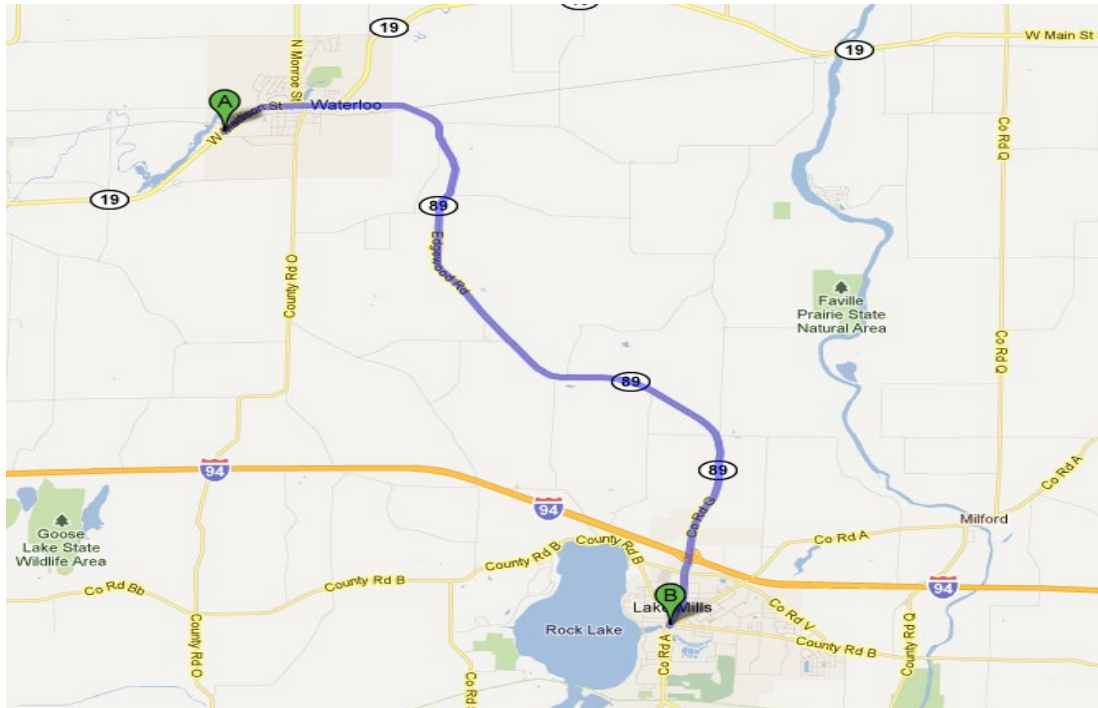
Takes about 35 minutes from Alliant Energy Center



Directions to Carp's Landing

Address - 103 S. Main St. Lake Mills, WI 53551

Takes about 15 minutes from Briess Malting



“Call for Section Award Nominations”

Contact: Amanda Crowe

This year the Wisconsin Section of the ASABE will recognize outstanding achievement during their spring meeting on *March 28th 2012, near Oshkosh WI*. Wisconsin Section awards scheduled to be given in 2012 include:

- Agricultural and Biological Systems Engineering Young Engineer Award
- Wayne G. Russell Award
- Biological Systems Engineering Student of the Year
- Agricultural Engineering Technology Student of the Year
- Biological Systems Engineering Graduate Student of the Year

The purpose, eligibility and nomination procedures for each award are listed below. All nominations/suggestions should be forwarded to Amanda Crowe, this year's Vice Chair of Awards.

NEW THIS YEAR: Award Recipients will be asked to submit 5-10 pictures with captions for a slide show to be shown during the Awards Ceremony!

Although deadline for nomination of these awards is **February 3rd**, now is the time to begin submitting nominations.

If you are aware of someone who is deserving of an award, but need assistance or are unable to complete the nomination please contact Amanda Crowe!

Without your recommendations and assistance, those most deserving of our awards may go unrecognized.

Amanda Crowe
USDA-NRCS
820 Industrial Drive, Suite 3
Sparta WI 54656
Phone 608.269.8136 Ext. 120
E-Mail amanda.crowe@wi.usda.gov

WISCONSIN SECTION OF ASABE
AGRICULTURAL AND BIOLOGICAL SYSTEMS ENGINEERING
YOUNG ENGINEER AWARD

Purpose: This award is to honor a young Wisconsin Section member for outstanding contributions to the advancement of the Agricultural and Biological Systems Engineering profession. The selection will be based on a candidates' total accomplishments as an engineer and not just on their activities during the past year.

Eligibility: The recipient must be a member of the Wisconsin Section of the ASABE in good standing and under the age of 40 as of January 1 of the year in which the award is to be made.

Nomination Procedures: Nominations can be made by an individual (member or nonmember), group, company, or organization. Suggested data and areas of activity to be considered in preparing a nomination include:

1. Candidate's name, address and phone number.
2. Employment history including titles and duties.
3. Activities in ASABE. Offices held, committee activity, special awards, special duties, Section activities, etc.
4. Activities and membership in other professional and scientific societies or organizations. Membership, offices held, committee activities, special awards, special assignments, etc.
5. International professional activities.
6. Registration as a professional engineer.
7. Accomplishments. Patents held, research development, methods and procedures developed, responsibilities in the development of equipment, structural systems, conservation methods, food processes, etc.
8. Publications, lectures, addresses, professional and scientific papers, books, bulletins, industrial publications and magazine articles.
9. Other desirable qualifications not included in the above suggestions.

A cover letter from the nominator, not to exceed 400 words, should be added to the above information summarizing the reasons for the nomination.

Wisconsin Section of ASABE
WAYNE G. RUSSELL AWARD

Purpose: To recognize an individual or organization demonstrating exceptional commitment to helping the Wisconsin agriculture industry adopt new electric technology, farmstead mechanization and farm equipment. The award is named after the late Wayne G. Russell, former Rural Promotion Manager for Wisconsin Power & Light, who formulated the idea for the Electric Power and Equipment Farm Show in the late 1950's. Through Mr. Russell's efforts, the show has grown to become one of the most successful indoor farm equipment shows in the country. The award is co-sponsored by Wisconsin Power & Light and the Midwest Farm Equipment Association.

Eligibility: There are no specific eligibility requirements.

Nomination Procedures: Nominations can be made by an individual (ASABE member or nonmember), group, company, or organization. All nominations should be accompanied by a type written summary (maximum length of two pages) describing the candidates major contributions to Wisconsin's agricultural industry.

WISCONSIN SECTION OF ASABE **BIOLOGICAL SYSTEMS ENGINEERING STUDENT OF THE YEAR**

Purpose: To honor an undergraduate Biological Systems Engineering student for achievement in preparation for a career in the profession. A \$150 monetary award is included in addition to the recognition.

Eligibility: The recipient must be enrolled in a Biological Systems Engineering program, must be a member of an authorized ASABE Student Branch, a national member (student or otherwise) of the ASABE, and must be making satisfactory progress toward a Bachelor's degree (as determined by the Student Branch faculty advisor). Students who have graduated prior to January 1 of the year in which the award is to be made are not eligible. Thus to be eligible for the awards being given in 2012, a student cannot have graduated prior to January 1, 2012.

Nomination Procedures: To be considered for this award, the candidate must submit a maximum of a one page typewritten summary describing the following:

1. ASABE Student Branch activities,
2. Campus wide activities and community service,
3. Scholastic achievement, and
4. Career goals.

The four areas within the summary will be equally weighted by the selection committee.

WISCONSIN SECTION OF ASABE **AGRICULTURAL ENGINEERING TECHNOLOGY STUDENT OF THE YEAR**

Purpose: To honor an undergraduate student enrolled in an Agricultural Engineering Technology, Agricultural Mechanization, or Agricultural Mechanization and Management program for achievement in preparation for a career in the profession. A \$150 monetary award is included in addition to the recognition.

Eligibility: The recipient must be enrolled in an Agricultural Engineering Technology, Agricultural Mechanization, or Agricultural Mechanization and Management program, must be a member of an authorized ASAE Student Branch, a national member (student or otherwise) of the ASABE, and must be making satisfactory progress toward a Bachelor's degree (as determined by the Student Branch faculty advisor). Students who have graduated prior to January 1 of the year in which the award is to be made are not eligible. Thus to be eligible for the awards being given in 2012, a student cannot have graduated prior to January 1, 2012.

Nomination Procedures: To be considered for this award, the candidate must submit a maximum of a one page typewritten summary describing the following:

1. ASABE Student Branch activities,
2. Campus wide activities and community service,
3. Scholastic achievement, and
4. Career goals.

The four areas within the summary will be equally weighted by the selection committee.

WISCONSIN SECTION OF ASABE

BIOLOGICAL SYSTEMS ENGINEERING GRADUATE STUDENT OF THE YEAR

Purpose: To recognize a Biological Systems Engineering graduate student for singular achievement in developing and/or advancing the technology of engineering for food and agriculture. A \$150 monetary award is included in addition to the recognition.

Eligibility: The recipient must be a national ASABE member (student or otherwise) and must be making satisfactory progress toward a Masters or Ph.D. degree, or have recently completed said degree requirements. Students who have graduated prior to July 1 of the year previous to the year in which the award is to be made are not eligible. Thus to be eligible for the award being given in 2012, a student cannot have graduated prior to July 1, 2011.

Nomination Procedures: To be considered for this award, candidates must submit a two page type written summary.

The first page should contain the following data:

1. Candidate's Name, Address, and Current Position.
2. Professional Activities (summary of candidates' involvement in ASABE and other professional activities at a local, state, national, and/or international level). (10%)
3. Scholastic Achievement. (15%)
4. Publications and Presentations (list of lectures, addresses, professional and scientific papers, bulletins, magazine articles, etc.). (10%)
5. Career Goals. (5%)

The second page, entitled "Research Description" should contain:

6. The Nature of the Problem (an introduction to the research and description of the problem(s) to be solved). (10%)
7. Solution Procedures (a description of: experimental procedures, methods used, and/or approaches taken to solve the problem(s)). (25%)
8. Research Conclusions and Significance of the Results. (25%)

Pages 1 and 2 of the written summary will be weighted by the selection committee according to the percentages given in the parentheses.

Secretary's Report

01 SEPTEMBER 2011

The July 13th ASABE Wisconsin Section meeting was held in conjunction with the Wisconsin Farm Technology Day's in Marshfield.

Following the show members and guests attended the WALSAA picnic held at the Marshfield Agriculture Research Station located in Stratford. Along with food and beverages provided by WALSAA, attendees were also able to take wagon ride tours of the heifer facility and crop test plots located on the research station's property.

There was no formal business meeting.

Respectfully Submitted,

Jeffrey M. Marggi
ASABE Wisconsin Section Secretary 2010-2011

Treasurer's Report

01 SEPTEMBER 2011

Opening Balance **\$7,701.14**

Revenue:

<u>Date</u>	<u>From</u>	<u>Memo</u>	<u>Amount</u>
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Total: \$0.00

Expenses:

<u>Date</u>	<u>To</u>	<u>Memo</u>	<u>Check #</u>	<u>Amount</u>
07/13/2011	WALSAA	FTD Picnic	596	\$90.00

Total: \$90.00

Closing Balance **\$7,611.14**

Respectfully Submitted,

Jeffrey M. Marggi
ASABE Wisconsin Section Treasurer 2010-2011

REGISTRATION

WORLD DAIRY EXPO / BRIESS MALTING TOUR

OCTOBER 5th, 2011

	Number Attending	Cost	Total
Tour of Briess Malting – 2:00 pm	_____	Free	
Dinner @ Carp's Landing – 6:00 pm	_____	\$20.00/person students free	\$ _____

Information:

Name(s): _____

Address: _____

City/Town: _____ State/Zip _____

Telephone: (____) _____ - _____ FAX: (____) _____ - _____

e-mail: _____

Return completed form and send by **September 28th** to:

Dan Thiemke

ASABE Wisconsin Section Program Chair

[John Deere Horicon Works](#)

300 North Vine Street

Horicon, WI 53032

P: 920-485-5074

F: 920-485-5169

ThiemkeDanielB@JohnDeere.com

Newsletter Highlights

- Spring Meeting
- Schedule of Events
- Directions
- Secretary/Treasurer's Report
- WI Section Officer Ballot – Complete and Send
- 2011 WI Section Awards/Member recognition
- March 30th Meeting Registration - Complete & Send

ASABE WISCONSIN SECTION

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March 2011

2010-2011 Editor: Bill Bassett
email:

bill.bassett@kuhn.com

Published Three Times Per Year

ASABE WI Section 2010-2011

Chair

Damion Babler
Kuhn North America, Inc.
(608) 897-2131

2009-2010 Past Chair

Neal Stoffel
Kondex Corporation
(920) 269-7932

Vice Chair Program (Chair-Elect)

Tim Koch
Schreiber Foods, Inc
(920) 988-2408

Vice Chair Awards

Amanda Crowe
USDA-NRCS
(608) 576-7651

Vice Chair Membership

Matthew Digman
USDA-ARS
(608) 890-1320

Vice Chair Public Relations

Bill Bassett
Kuhn North America, Inc.
(608) 897-2131

Vice Chair Career Development

Garritt Boettcher
John Deere - Horicon
(920) 485-5792

Secretary and Treasurer

Jeff Marggi
Kuhn North America, Inc.
(608) 897-2131

Webmaster

Adam Steen
Nate Dudenhoeffer

WISCONSIN SECTION MEETING WEDNESDAY, MARCH 30TH, 2011 WISCONSIN PUBLIC SERVICE FARM SHOW

The ASABE Wisconsin Section meeting will be held on Wednesday, March 30th in conjunction with the Wisconsin Public Service Farm Show.

The annual Farm Show runs from March 29th – 31st and will be held at the EAA (Experimental Aviation Association) grounds in Oshkosh. The show will have more than 400 vendors covering over 700 booths. The show is expected to draw visitors from throughout the Midwest to see the latest in Agriculture Technologies. Like last year, the show will include a 3 day silent auction to benefit the Wisconsin FFA Foundation, an on-site agricultural consultant from WPS to answer energy management questions, and selected medical screenings from the UW-Oshkosh Nursing students (Tuesday and Thursday only).

Following the show, there will be a tour of the Bemis Innovation Center at 3:00. This will be followed by a social time at LaSure's Hall at 4:30, a presentation on the Lake Delton Refurbish project by William Sturtevant, PE – State Dam Safety Engineer, and a dinner at 6:15. The buffet dinner will include chef carved sirloin of beef and chicken marsala. Dinner will be followed by a meeting to discuss any new section business, present section awards, and announce the new officer team for 2011/2012.

Schedule of Events/Information

Wisconsin Public Service Farm Show:

EAA Grounds, 3000 Poberezny Road, Oshkosh, WI 54902

<http://www.wisconsinpublicservice.com/business/show.aspx>

Farm Show: 9:00am – 4:00pm Tuesday/Wednesday
9:00am – 3:00pm Thursday

Admission is free. Parking costs \$3/vehicle

Bemis Innovation Center Tour:

3:00 - 4:15 pm

2301 Industrial Drive, Neenah, WI 54956

<http://www.bemis.com>

Established in 1858 in St. Louis, Missouri, as a manufacturer of machine sewn cotton bags for milled food and grain products, Bemis has played an influential role in the packaging industry ever since its founding. Now a global supplier of flexible packaging and pressure sensitive label materials headquartered in Neenah, Wisconsin, Bemis serves customers worldwide and produces packaging for products found in virtually every aisle of the grocery store.

With 2010 net sales of \$4.84 billion, Bemis operates 81 facilities in 13 countries. Over two-thirds of Bemis packaging is used in the food industry, with the balance used in markets including medical, pharmaceutical, chemical and agribusiness. Our pressure sensitive products are used in industries including graphic arts, digital imaging, assembly engineering, communications and medical.

The Bemis Innovation Center has more than 100 product development and R&D specialists. Research is paying off for the maker of flexible packaging and pressure sensitive materials used by food, consumer products and health care companies. The firm just received approval from the U.S. Food and Drug Administration and U.S. Department of Agriculture for a lighter-weight yet superior vacuum packaging film that will extend the shelf life for fresh beef sold in supermarkets.

Speaker/Dinner/Business Meeting/Award Presentation:

LaSure's Hall, 3125 S. Washburn St., Oshkosh, WI 54902 Phone: 920-651-0796

Social Time: 4:30 – 5:30pm

Speaker – William D. Sturtevant, PE: 5:30 - 6:15pm

Dinner / Business Meeting /Awards Presentation: 6:15pm

Adjourn

New officer meeting and photos: Following awards

Lake Delton is a man-made freshwater lake in Sauk County in central Wisconsin. On the morning of June 9, 2008, a 400-foot portion of County Highway A that traverses the north side of Lake Delton failed, creating a new drainage channel to the Wisconsin River. At 2 am that day, 12 inches of rain caused one hundred residents to start sandbagging. The water began overflowing County Highway A at approximately 10 am. It flowed downhill to the Wisconsin River approximately 800 feet away and 40 feet below the lake's level. The flow quickly created

a 400-foot wide channel that drained the lake in 2 hours. Three homes washed away, and another two were destroyed when their foundations were undermined by the new outflow.

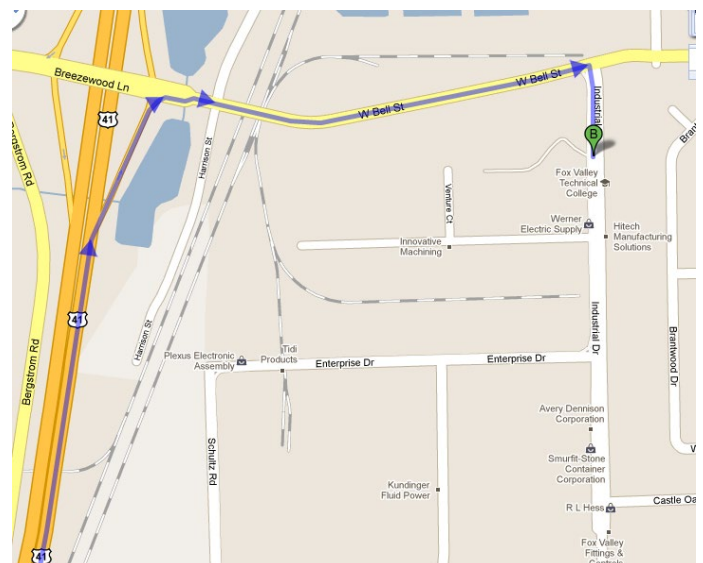
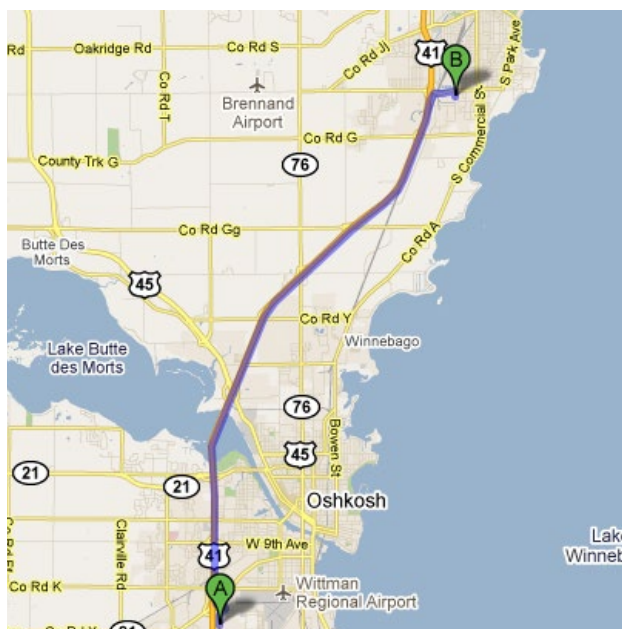
Following the draining of Lake Delton, the U.S. Department of Agriculture and Natural Resources Conservation Service allocated \$160,000 to the Village of Lake Delton to redirect Dell Creek back to its normal path and through the Lake Delton Dam. The reconstruction took about 10 days to complete. A cofferdam was built to intercept the water and stop further erosion.

Restoration of Lake Delton was well underway by the end of October 2008. The gap at County A was filled with 12,000 truckloads of sand and tons of rocks. Sand to fill the gap was donated by a landowner less than a mile away saving \$3 million in fuel and material costs. Improvements were also underway on the dam to allow it to withstand a 1,000 year flood without the lake's level rising. Highway A was reopened during the last week of November 2008. Water began flowing back into Lake Delton after the dam was closed in early December 2008. Costs to the State of Wisconsin were said to be \$3.6 million and \$2.5 million was spent by the village of Lake Delton.

Directions to Bemis Innovation Center from WPS Farm Show

2301 Industrial Drive, Neenah, WI 54956

Approximate drive time from the farm show to Bemis is 25 minutes.

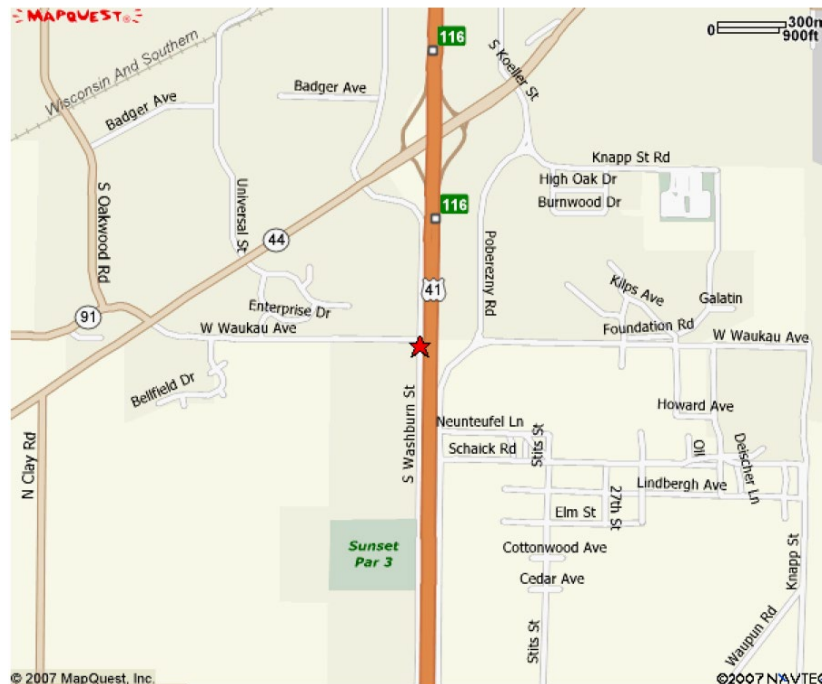


Directions to LaSure's Hall

From Bemis Innovation Center / Green Bay / Appleton: Highway 41 south to Highway 44 in Oshkosh. Turn right on 44. Turn left on the west frontage road (Washburn St.) travel 3/4 of a mile to the Hawthorn Inn & Suites Motel & La Sure's Hall, Banquets & Catering.

From Milwaukee: Highway 41 north to Highway 44 in Oshkosh. Turn left on 44. Turn left on the west frontage road (Washburn St.) and travel 3/4 of a mile to the Hawthorn Inn & Suites Motel & La Sure's Hall, Banquets & Catering.

From Madison: Highway 151 north to Highway 26. Follow Highway 26 to Highway 41. Turn left on the west frontage road (Washburn St) and travel 3 miles to the Hawthorne Inn & Suites & La Sure's Hall, Banquets & Catering



Secretary's Report

22 February 2011

The September 29th ASABE Wisconsin Section meeting was held in conjunction with the World Dairy Expo held at the Alliant Energy Center in Madison.

Following the show members and guests toured Thermal Spray Technologies in Sun Prairie. The tour started at 1:45 with a company overview presented by Brad Wagner Director of Sales for Thermal Spray Technologies.

A tour of Lyco Manufacturing in Columbus, WI and a presentation by William Sturtevant of the Bureau of Watershed Management were both canceled.

Following the tour a business meeting and dinner were held at The Cannery Grill in Sun Prairie.

1. 4:30 – 5:00 Section Officer Meeting.
2. 5:00 – 5:45 Social hour @ cannery.
3. 5:45 Guest Speaker – Darrin Drollinger, ASABE Executive Director.
4. 6:00 Dinner and Section Business Meeting.
 - a.) Officer Reports
 - b.) Mathew Digman Reviewed the 2010 Member Survey Results.
5. The meeting was adjourned at 7:00.

Respectfully Submitted,

Jeffrey M. Marggi
ASABE Wisconsin Section Secretary 2010-2011

Treasurer's Report

22 February 2011

Opening Balance	6,927.51
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Revenue:

<u>Date</u>	<u>From</u>	<u>Memo</u>	<u>Amount</u>
10/08/2010	Meeting Rev.	Fall Section Meeting	\$1,090.00
02/21/11	ASABE Hq.	Dues reimbursement	\$1,341.00

Total: \$2,431.00

Expenses:

<u>Date</u>	<u>To</u>	<u>Memo</u>	<u>Check #</u>	<u>Amount</u>
09/29/2010	Cannery Grill	Fall Meeting	585	\$766.11
02/14/2011	Nate Dudenhoeffer	Domain Name	586	\$33.42
02/10/2011	Craig Slattery	AETC/AG CONNECT	587	\$272.55
02/18/2011	U.S. Post office	Stamps	591	\$8.80

Total: \$1,080.88

Closing Balance	\$8,277.63
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Respectfully Submitted,
Jeffrey M. Marggi
ASABE Wisconsin Section Treasurer 2010-2011

2011-12 ASABE Nominations for WI Section Officers
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Vice Chair-Program (Chair Elect) (vote for one)	_____ Dan Thiemke _____
Career Development Committee (vote for two)	_____ Nathan Ryan _____ Neal Stoffel _____
Secretary/Treasurer (vote for one)	_____ Jeff Marggi _____
Vice Chair-Awards (vote for one)	_____ Amanda Crowe _____
Vice Chair-Membership (vote for one)	_____ Matt Digman _____
Vice Chair-Public Relations (vote for one)	_____ Bill Bassett _____
Nomination Committee (vote for two)	_____ Todd England _____ Rod Zimmerman _____

Please fill out this ballot and return by Friday March 25th, by email or fax. Officers will be announced at the Section Meeting on Wednesday, March 30th.

Todd England

ASAE Wisconsin Section, Nomination Committee

Mechanical Design Engineer

Digi-Star, LLC.

Phone: 920-568-6226

Fax: 920-563-9721

email: todd.england@digi-star.com

REGISTRATION
WISCONSIN PUBLIC SERVICE FARM SHOW
March 30th, 2011

	Number Attending	Cost	Total
Bemis Innovation Center Tour – 3:00 pm	_____	Free	
Dinner @ LaSure’s Restaurant – Speaker @5:30 pm, Dinner @ 6:15 pm	_____	\$25/person students free	\$ _____

Information:

Name(s): _____

Address: _____

City/Town: _____ State/Zip _____

Telephone: (____) _____ - _____ FAX: (____) _____ - _____

e-mail: _____

Return completed form and send by **March 23rd** to:

Tim Koch

ASABE Wisconsin Section Program Chair

Schreiber Foods, Inc.

W2322 Majesta Court

Watertown, WI 53094

P: 920-988-2408

F: 262-675-2827

Tim.Koch@schreiberfoods.com

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- Summer Meeting
- Schedule of Events
- Directions
- Secretary/Treasurer's Report
- July 13th Meeting Registration - Complete & Send

ASABE WISCONSIN SECTION

The Newsletter of the Wisconsin Section of
the American Society of Agricultural
Engineers



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

www.wiasabe.org

July 2011

2011-2012 Editor: Bill Bassett
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ASABE WI Section 2011-2012

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WISCONSIN SECTION MEETING WEDNESDAY, JULY 13TH 2011 FARM TECHNOLOGY DAYS

**The ASABE Wisconsin Section meeting will be held on
Wednesday, July 13th in conjunction with the Wisconsin
Farm Technology Days.**

**Wisconsin Farm Technology Days is the state's largest
outdoor agricultural show, with a history dating back to
1954. The annual three-day event showcases the latest
improvements in production agriculture, including
practical applications of recent research findings and
technological developments. This year's show runs from
July 12-14 and is being hosted by the Ken and Karen
Seehafer Family at Seehafer Acres near Marshfield in
Marathon County. The Seehafer family operate a 250 cow dairy
farm with and grow forage, corn and soybeans on 850
acres.**

**At 4:00pm, there will be a picnic in conjunction with
WALSAA. The picnic will be held at the Marshfield
Agricultural Research Station in Stratford and will include
brats, burgers, salads, dessert, and beverages. Wagon ride
tours will be available of the facility. No business meeting
is planned.**

Schedule of Events/Information

Wisconsin Farm Technology Days:

Seehafer Acres

M243 State Hwy 97, Marshfield, WI

<http://www.marathonfarmtech.com>

Farm Show:	Tuesday/Wednesday – 9:00am – 5:00pm
	Thursday – 9:00am – 4:00pm

Admission is \$5/person. Parking is free.

The following is from the Marathon Farm Tech website listed above:

Ken & Karen have two adult children and four grandchildren. Daughter, Holly, is a reading and math specialist in a Spanish Immersion School in Eden Prairie, MN and son, Jesse, is involved in all aspects of the farming operation. Other full time dedicated employees include: Dave Gadke, Dennis Weber and herdsman, Jeremy Marshall.

The 3rd generation family farm was originally purchased by Ken's grandfather in 1930 consisting of 80 acres. The farm grew to 200 acres by Ken's parents, Alma and Elmer Sr., and were milking 36 cows when Ken joined the operation in 1968. He purchased the farm in 1972 and it continued to change throughout the years to its existing 750 acres owned plus 100 rented and 250 milking cows. In 1989 the farm was incorporated. Seehafer Acres is a well kept modern dairy facility managed by a husband and wife team showcasing cow comfort, herd management and conservation practices.

Seehafer's pride themselves on making cow comfort a high priority. A herdsman, focuses on their comfort while maintaining herd health and reproduction. Two employees milk the cows twice a day in the double-ten parallel parlor. All livestock are raised on-site for management control. Housing includes a free stall barn for 230 milking Holsteins, a young stock facility to house yearlings and calves, and a loose housing facility for bred heifers, along with a recently completed dry cow barn. Sand bedding is used in the free-stall barn and the dry cow barn utilizes sand in summer and corn stalks in winter. The original dairy barn has been renovated to provide hay storage and to create a nursery for newborn calves.

Managing 850 acres of forage, corn and soybeans, Seehafer's utilize conservation practices through minimum tillage, strip cropping, terracing and waterways. Once harvested, feed is stored in four conventional stave silos, one harvester and three bunker silos. There are on-farm storage bins for corn and soybeans.

WALSAA Picnic

Marshfield Agricultural Research Station, M605 Drake Ave N, Stratford, WI 54484

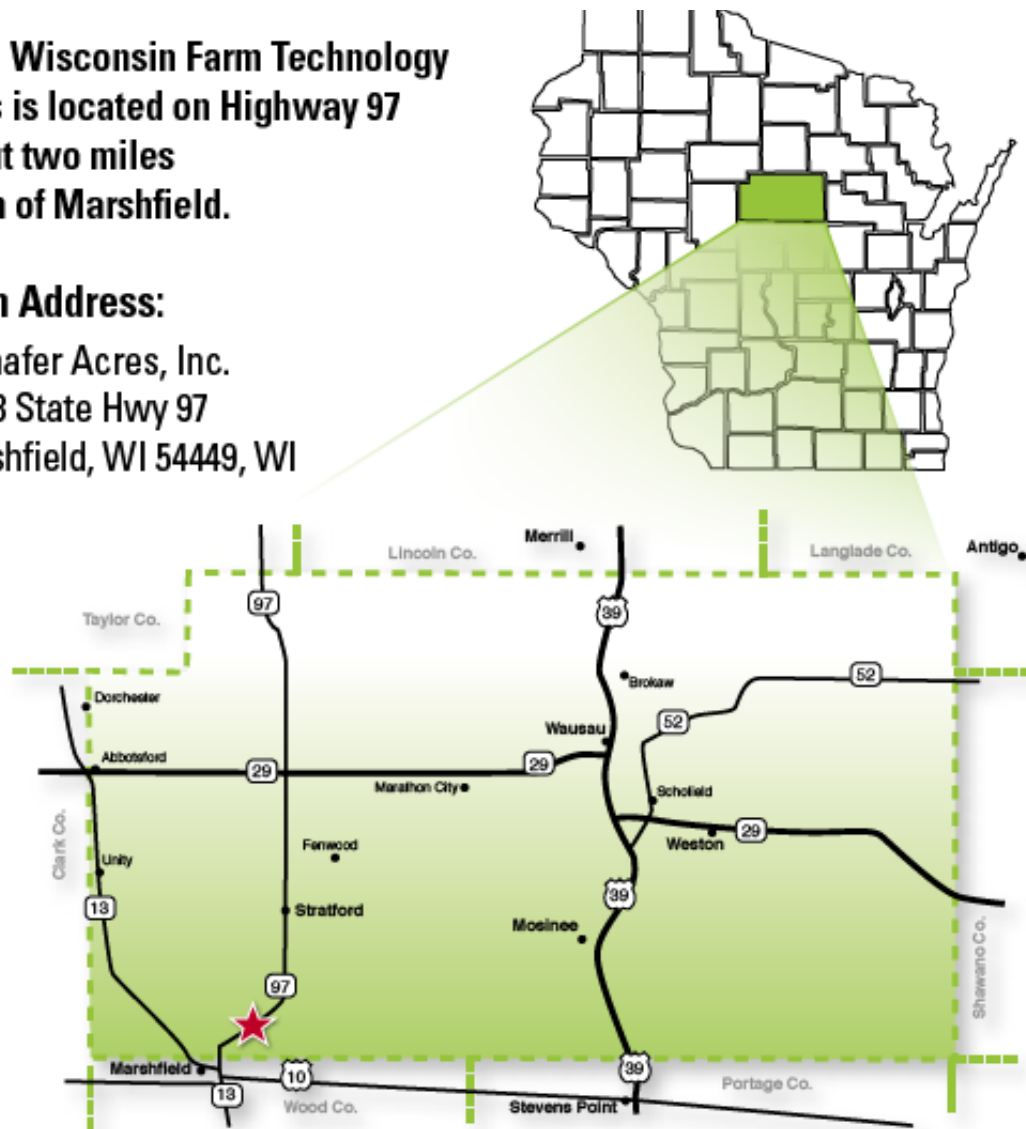
Social time/Dinner: 4:00 – 8:00 pm

Directions to Farm Technology Days Seehafer Acres

2011 Wisconsin Farm Technology Days is located on Highway 97 about two miles north of Marshfield.

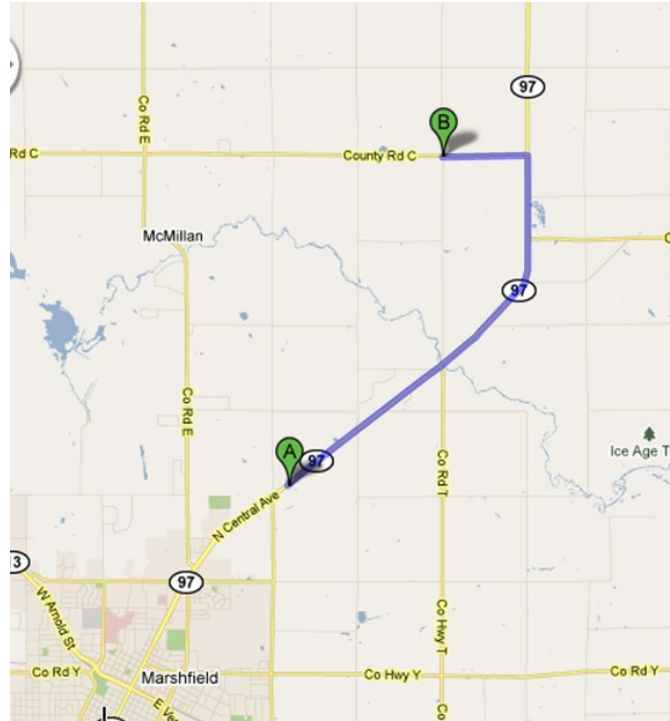
Farm Address:

Seehafer Acres, Inc.
M243 State Hwy 97
Marshfield, WI 54449, WI



Directions to WALSAA Picnic Marshfield Agricultural Research Station

Address - M605 Drake Ave N, Stratford, WI



FTD visitors exiting to the north can take Hwy 97 to Cty C and go west 1 mile to the research station. FTD visitors exiting to the south likely will have to go back to Marshfield and take Cty E north to Cty C east. It may be easier to go around Marshfield in the morning to enter the show from the north to make it easier to get to the WALSAA picnic.

Secretary's Report

16 JUNE 2011

The March 30th ASABE Wisconsin Section meeting was held in conjunction with the Wisconsin Public Service Farm show in Oshkosh.

Following the show members and guests toured the Bemis Innovation Center in Neenah. Here attendees were able to see the company's research and design center where Bemis personnel are continually researching ways to package food.

Following the tour attendees arrived at LaSure's Hall where William Sturtevant, PE – State Dam Safety Engineer gave a presentation on the Lake Delton Refurbish project.

The awards presentation followed the guest speaker.

Awards were presented to the following recipients:

Dr. Richard Muck received the 2011 Career Achievement Award. The purpose of this award is to honor a Wisconsin Section member who has made outstanding contributions to Agricultural and Biological Engineering through work in research, education, design, and/or extension. The selection is based on the candidate's lifetime accomplishments as an engineer.



Dr. Shinnars presents Dr. Muck with the Career Achievement Award

In his position at USDA-ARS, Rich could have fashioned a successful career solely upon the merits of his scientific work in his lab, a path many in his colleagues often choose. But Rich's career has been so much more than this. The hallmark of Rich's career is his desire to share his scholarly activities with the wide agricultural community. I have seen Rich conduct so many well received seminars, presentations at producer meeting, and extension meeting around

the state and the country. Rich has a special skill for explaining the difficult concepts of silage biology so that his audience can receive value from the presentation no matter their background. It is rare that a USDA-ARS researcher is so committed to disseminating their research work to such a wide range of constituents. He has been a great role model, showing all of us in the academic community the value and satisfaction of sharing our work throughout the broad agricultural community.

Rich Muck is also an outstanding colleague for those interested in the biology of silage and how engineering principles can be used to improve ensiled forage production. Anyone in this field, from fellow researchers to nutritional consultants, knows if they have a vexing silage related question, Rich will gladly give of his time to help answer the question and solve the problem. Rich is one of the worldwide experts in this field and he gladly shares his knowledge with a wide range of constituents.

Rich has worked very hard to serve the profession through his work in the Department of Biological Systems Engineering here at the UW. He has been a valuable research collaborator with peers and served on many graduate student committees. There have been so many graduate students from my research group whose work has been positively affected by Rich's mentorship; it will be a real loss to my program and the UW when Rich retires!

Rich has been a solid servant to the profession throughout his career. He has been active in the Wisconsin Section and a leader on national committee activities. I have served with Rich on PM-23/7 – Forage and Biomass Engineering Committee for decades. He has served several times in all the leadership roles of this committee. He has also served on the leadership role for the Wisconsin Section several times during his career.

Rich Muck can be deservedly proud that his work has helped so many silage producers around the world produce high quality silage for their ruminant animals. It is hard to imagine how many millions of tons of quality forage have been produced because Rich has worked so tirelessly to educate producers about what it takes to consistently produce a quality silage product. His work to isolate and commercialize *Lactobacillus buchneri* as a silage inoculant has made a profound difference in the aerobic stability for ensiled forage crops. I am sure that Rich has a deep sense of professional and personal satisfaction knowing the impact this discovery has made on improving silage quality.

I know that all of us in the Wisconsin Section can be very proud of Rich Muck's career accomplishments.

(by Dr. Kevin Shinnars)

Bill Walters and (the late) James Walters received the 2011 Wayne G. Russell Award. The purpose of this award is to recognize an individual or organization demonstrating exceptional commitment to helping the Wisconsin agricultural industry adopt new electric technology, farmstead mechanization, and farm equipment. The award is named after the late Wayne G. Russell who in the late 1950's, as a Rural Promotion Manager for Wisconsin Power and Light, formulated the idea for the Electric Power and Equipment Farm Show (now the Midwest Ag. Expo.).



Dan Pederson accepts the award on behalf of Walters Buildings.

The single largest capital investment made by any new agricultural livestock operation is in its facilities. These facilities are largely comprised of post-frame buildings. Today's engineered agricultural post-frame building is one of the most (if not the most) sustainable, structurally efficient, permanent structures in the world. James and Bill Walters have been on the forefront of developing and perfecting new designs, manufacturing practices and construction techniques for the post-frame industry since the 1960's.

James and Bill were second generation owners of Walters Buildings that has contributed to the agricultural community for over 50 years. James (deceased in 2006) and Bill have been involved in post-frame buildings since they were kids putting up the buildings. With James and Bill's guidance, Walters Buildings designed a new mechanically laminated column called the

Shear Transfer Plated (STP) Column and developed a stream-lined manufacturing process to efficiently produce the columns. These STP Columns continue to set the standard in the post-frame industry to this day. Beginning in 1986 and in collaboration with The Product Fabrication Service, Walters began testing the aforementioned STP Columns. Walters continues to improve this cutting edge column to this day, partnering with staff from Biological Systems Engineering and other testing professionals.

James and Bill have funded and participated in many engineering projects that made post-frame buildings more efficient. Walters Buildings has developed and done testing on headers, rafters, its proprietary one-way truss plates and diaphragm design of its steel panels. With James and Bill's encouragement, Walters Buildings has helped fund numerous Biological Systems Engineering projects including The National Frame Builder's Post-Frame Tolerances for Framing and Metal Panel & Trim, foundations, purlins, rafters, headers and column designs. Walters Buildings has also donated to various structures constructed at the UW Agricultural Research Stations. Walters continues to be committed to engineering excellence in post-frame construction which is reflected in the fact that Walters has had at least one Biological Systems Engineering (Ag Engineer) professional on staff since 1978.

Through an agricultural exchange with Russia, James and Bill had a truss plant in Siberia, built buildings on the site of the Moscow Olympics and dabbled in producing tile from recycled glass based on the Russian Space Shuttle.

Walters continues to serve new and existing customers with all their post-frame building needs. Through James and Bill's leadership and legacy, Walters Buildings is a proud member of the Wisconsin Frame Builders Association, the National Frame Builders Association and the Wisconsin Better Business Bureau and has won the *Rural Builder* Gold Key of Excellence Award over 10 times. This award goes to firms with consistently high standards in service to rural construction. Walters has also earned the NFBA Building of the year honors several times.

James and Bill are truly are pioneers in the post-frame industry and their legacy of thousands of buildings dotting the landscape and generations of satisfied customers are a testament to their commitment to the Wisconsin agriculture industry. (by Dan Pederson)



James & Bill Walters

Student Award Winners (Chris, Melissa, Andrew):

Melissa Sattler of UW-River Falls was the recipient of the Engineering Technology Student of the Year Award. The purpose of this award is to recognize an undergraduate enrolled in an Agricultural Engineering Technology, Agricultural Mechanization, or Agricultural Mechanization and Management program for achievement in preparation for a career in the profession.

Throughout her college career at UW-River Falls Melissa has been involved in collegiate and community activities that have taught her perseverance and sacrifice while maintaining good standings in the classroom. Taking advantage of the many opportunities ASABE has to offer, Melissa became a member of the Quarter Scale Tractor Design Competition. Melissa first competed on the X-Team in 2009, and in 2010 Melissa joined the A-Team which she and a teammate placed first in the oral presentation, and placed 12th overall. This year Melissa serves as the captain of the A-Team and is looking forward to the competition. Melissa served as the president of the Agricultural Mechanization club from 2009-2011 and was a leader of many community activities such as their annual lawn mower and snow blower tune up clinic. She has also been able to tour many interesting business and organizations as well as been given the opportunity to network with great people. Melissa has been recognized academically for her high GPA by being listed on the Dean's List and was also invited to join Alpha Zeta-the agricultural honor fraternity. With Melissa's accomplishments, it is not surprising that she has a job waiting for her upon graduation at Cargill Kitchen Solutions in Monticello, Minnesota which she will start in June of this year. Melissa will start as a Production Management Associate and hopes to manage people and projects as she progresses up the management chain.

Chris Hargot of UW-Madison was the recipient of the Biological Systems Engineering Student of the Year Award. The purpose of this award is to recognize an undergraduate student in preparation for a career in the profession.

Chris has served as the President of the UW-Madison ASABE student branch where he helped plan trips that were both fun and relative to the student's career goals and professional development. Chris is also an active member of the Quarter Scale Tractor team and this year is responsible for the drive train. Recently, Chris was able to serve as a student assistant for the Introduction to Engineering class where he assisted his group in designing and building a floating dock for the Aldo Leopold Nature Center. Chris has also been employed at the Ag. Eng. Lab for the last 4 years where he has assisted with a variety of projects which have included fabricating parts, collecting data, and operating equipment in the field. Chris is a member of American Legion Post 547 in Lublin Wisconsin, while he is not as active as he would like to be, due to school, he still finds time to participate in parades and military funerals when he is able to go home. Upon graduation in May, Chris would like to find a job as a design or test engineer in North-Central Wisconsin.

Andrew Holstein of UW-Madison was the recipient of the Biological Systems Engineering Graduate Student of the Year Award. The purpose of this award is to recognize a graduate student enrolled in a Biological System Engineering program for singular achievement in developing and or advancing the technology of engineering for food and agriculture.

Andrew is currently pursuing his PhD in Biological Systems Engineering with an emphasis in Structural Engineering. Besides being a member of the student organization at UW-Madison, Andrew has served on several ASABE standard revision and development committees. Andrew also loves to teach, and enjoyed assisting with a Structural Design for Agricultural Facilities class this fall. Current projects include revising the ASAE EP 486 standard on post/pier foundations, as well as designing and building a Rotatable Guarded Hot Box facility for analyzing the thermal efficiency of full-scale post-frame building wall and roof sections. Very few Hot Box facilities exist in the nation and this would be one of the first specifically designed for post-frame building research. Andrew's research project focuses on the need for sustainable design. Over the past decade, the construction industry has placed an ever increasing emphasis on "green" or "environmentally-friendly" building. Despite this increased call for more sustainable designs, one could argue that there have not been any significant changes in the structural framing of buildings. In order to satisfy this need for more sustainable building systems, a system of structural components was designed and tested that would embody the concepts of sustainable design and green construction. The structural components tested in Andrew's research do not rely on preservative-treated lumber, are reusable in their original form, have much higher material efficiencies, allow for greater building energy efficiency, and afford more building redundancy than currently used designs. These factors combine to create a structural system that answers the call for greener, more sustainable post-frame buildings. Upon graduation, Andrew wishes to combine his interests in teaching and research in the role of professor at an institution with a strong history of post-frame building research.

The following members were recognized for Milestone Memberships:

Keith E. Behling	25 years
Scott Mueller	25 years
Larry R. Johnson	40 years
Eugene J. Thiede	40 years
Paul D. Thompson	40 years
Gary D. Bubenzer	50 years
Edwin A. Heys	50 years
Roger D. Mayhew	50 years
Frederick H. Buelow	60 years



(Keith, Scott, Fredrick, Roger)



Naomi Uhlenhake has been named to the NEW FACES of ENGINEERING Class of 2011.

The New Faces of Engineering program highlights the interesting and unique work of young engineers (age 30 or younger) and the resulting impact on society. Only 10 young engineers from across the nation are chosen for their outstanding, early, career achievements.

Naomi, who earned her bachelor's degree in Biological Systems Engineering from UW-Madison in December 2005, first joined ASABE in 2001. While a student she was extremely active in the student branch and served in many positions including President. Naomi continues to be active in the organization at the national level as she serves as the Chair of the Young Professional Community.

Upon graduation she worked for Resource Engineering Associates, Inc in Middleton WI before recently taking a position to become the first agricultural engineer with Frontier FS Cooperative, a division of Fortune 500 Company Growmark. Naomi works closely with agronomists and farmers around the state of Wisconsin designing solutions for waste and stormwater management issues. In her position, Naomi strives to protect the environment by providing expertise to farmers in construction and expansion, permitting requirements, and acting as a liaison between her clients and government agencies such as the Department of Natural Resources, the Natural Resource Conservation Service, and county and township departments and committees.

Naomi develops designs for stormwater management, manure management, and leachate runoff control systems she also writes the engineering portions of comprehensive nutrient management plans (CNMPs). Over the last five years, at Frontier FS and her previous employer, Resource Engineering Associates, Inc., Naomi has completed more than 130 CNMPs, assisted with more than 30 construction projects, stormwater, siting and following National Pollutant Discharge Elimination System standards. Additionally, she has managed multiple farm-expansion projects.

Congratulations to all of the award winners!

A short business meeting followed the awards presentation. The new Officer Team was announced at this time.

2011 Officer Team:

Chair: Tim Koch. **Past Chair:** Damion Babler. **Vice Chair-Programs:** Dan Thiemke. **Career Development Committee:** Nathan Ryan and Neal Stoffel. **Secretary/Treasurer:** Jeff Margi. **Vice Chair-Awards:** Amanda Crowe. **Vice-Chair Membership:** Matt Digman. **Vice Chair-Public Relations:** Bill Bassett. **Nomination Committee:** Todd England and Rod Zimmerman. **Webmaster:** Nate Dudenhoeffer.



Back Row: Damion Babler, Bill Bassett, Todd England, Rod Zimmerman, Dan Thiemke, Matthew Digman.

Front Row: Tim Koch, Amanda Crowe, Nate Dudenhoeffer

Missing: Nathan Ryan, Neal Stoffel, Jeff Marggi.

Meeting was adjourned at 7:00.

Respectfully Submitted,

Jeffrey M. Marggi
ASABE Wisconsin Section Secretary 2010-2011

Treasurer's Report

16 JUNE 2011

Opening Balance 7,756.03**Revenue:**

Date	From	Memo	Amount
05/02/2011	Spring Meeting		\$775.00
05/02/2011	Spring Meeting		\$665.00

Total: \$1440.00**Expenses:**

Date	To	Memo	Check #	Amount
03/30/2011	La Sure's Hall	Food/Services	593	\$1139.42
04/28/2011	JB's Italian Grille	Officer's Meeting	594	\$105.47
05/31/2011	La Sure's Hall	Down Payment	595	\$250.00

Total: \$1494.89**Closing Balance \$7,701.14**

Respectfully Submitted,

Jeffrey M. Marggi
ASABE Wisconsin Section Treasurer 2010-2011

REGISTRATION
WISCONSIN FARM TECHNOLOGY DAYS
July 13th, 2011

WALSAA Picnic/meal – 4:00 pm

STUDENT'S MEALS WILL BE PAID BY THE SECTION. IN ORDER TO KNOW WHAT THE SECTION OWES WALSA, STUDENTS NEED TO SEND THIS REGISTRATION FORM TO DAN BY THE DATE INDICATED BELOW.

NON STUDENTS DO NOT NEED TO PREREGISTER AND CAN PAY \$10 DIRECTLY TO WALSA.

Information:

Name(s): _____

Address: _____

City/Town: _____ State/Zip _____

Telephone: (____) _____ - _____ FAX: (____) _____ - _____

e-mail: _____

Return completed form and send by **July 6th** to:

Dan Thiemke

ASABE Wisconsin Section Program Chair

John Deere Horicon Works

300 North Vine Street

Horicon, WI 53032

P: 920-485-5074

F: 920-485-5169

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