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ASAE 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*

DECEMBER 2004

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WISCONSIN SECTION MEETING WEDNESDAY, DECEMBER 1ST MARSHFIELD AGRICULTURAL RESEARCH STATION

The ASAE Wisconsin Section meeting will be held on Wednesday, December 1st. We will be touring the Marshfield Agricultural Research Station.

The Marshfield Agricultural Research Station is located near the geographical center of the state, thereby serving the heart of America's Dairyland. The station's silt loam soils represent the largest group of soils having agricultural importance in the state. The growing season is short and the temperatures are cool.

Wisconsin's dairy industry accounts for 174,000 jobs and \$18.5 billion in industrial sales. With 300+ stand-alone heifer rearing businesses existing in Wisconsin and contributing \$90 million to the state's economy per year, the Research Station is currently in the midst of an Integrated Dairy Facilities Program, which will aid in improving the research done on younger cattle. The Integrated Dairy Facilities Program is a two-phase program that will greatly improve the research and educational facilities available at this station, reflecting the conditions of today's commercial dairies.

The Integrated Dairy Facilities Program was started to provide the Dairy Science Program with a modern, state-of-the-art facility. The dairy industry in Wisconsin is constantly changing, but with the changes seen in international competition and with federal marketing and pricing programs, the dairy industry has had some more drastic changes in recent years.

To improve research in this area, Phase I of a two-part program was implemented. Phase I included the construction of a dairy heifer rearing research facility at the Marshfield Agricultural Research Station. This phase of the program has recently been completed. The program will allow UW-Madison dairy scientists to study the dairy herd as an integrated unit, stretching from birth of calves to management of milking cattle.

In Phase II, the USDA will construct and own new facilities at the Marshfield Agricultural Research Station, including a new laboratory and administrative facility, barns, a milking parlor, feeding and animal health care facilities, and supporting infrastructure elements. It will also modernize and expand dairy research/instructional facilities at the Arlington Agricultural Research Station and Madison Campus.

These new facilities will allow researchers to focus on more long-term studies. A few studies currently underway include a crossbreeding project, looking for the genes that influence health, fertility, calving ease and milk production in Holstein X Jersey crossbreeds, how delaying puberty with hormones affects udder development and milk production, and ways of reducing nitrogen and phosphorus excretion in heifer feeding operations.

The Goal of all of this, through research, is to improve the ability of Wisconsin dairy farmers to compete with low-cost producers elsewhere in the nation, increase Wisconsin's market share of the nation's milk production, and better protect the environment.

Schedule of Events

Marshfield Agricultural Research Station, M605 Drake Ave, Stratford, WI 54484
Meet at the Marshfield Agricultural Research Station at 1:00PM (Lunch will be on your own). Allow two hours for the tour. Dress for a modestly sheltered, but unheated environment.

Tour: 1pm **Cost: \$15.00**

Belvedere Supper Club, M329 State Hwy. 97, Marshfield, WI 54449

Social time: 3:15-4:30pm

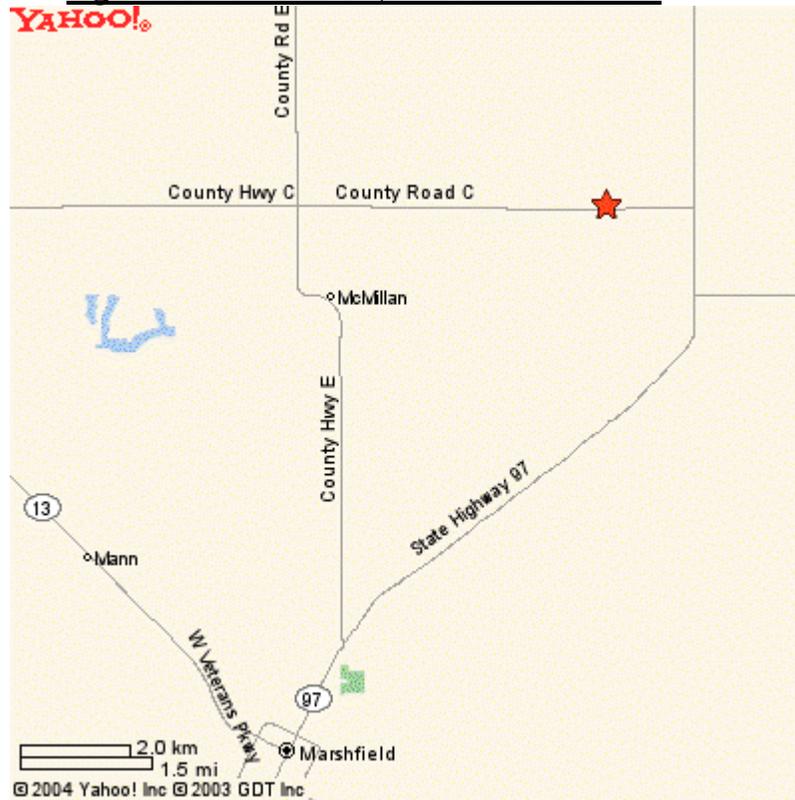
Program Speaker: 4:30pm

Mr. Thomas R. Drendel, Superintendent of the Marshfield Agricultural Research Station, will be speaking on how state economics reflects upon research opportunities and the dairy industry.

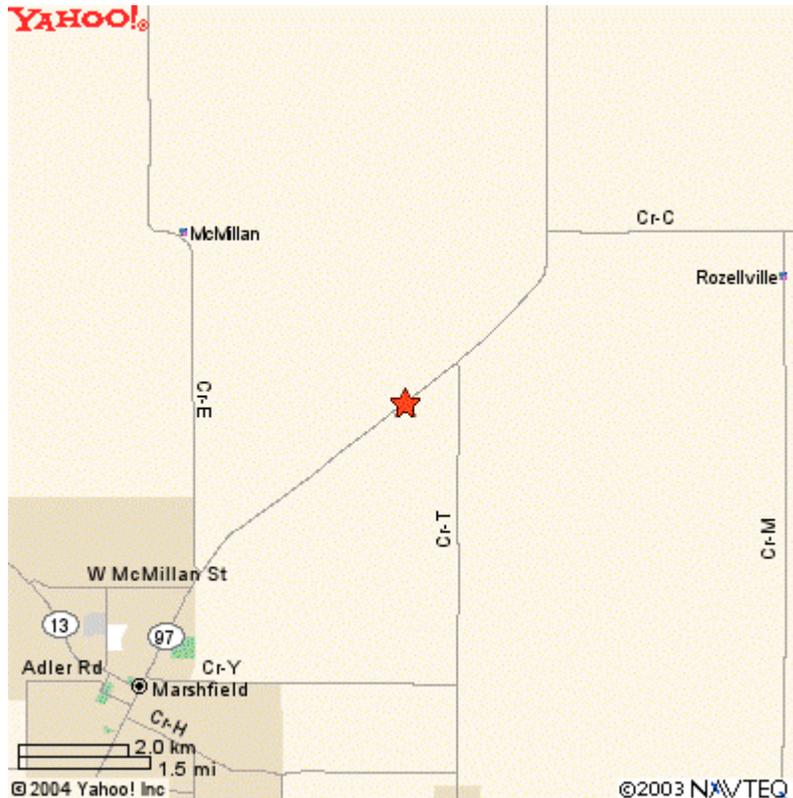
Dinner: 5:30pm
Meeting

Adjourn

Ag. Research Station, M605 Drake Ave.



Belvedere Supper Club, M329 State Hwy 97



Secretary's Report

October 18th, 2004

Wisconsin Section ASAE

The summer meeting of the Wisconsin Section American Society of Agricultural Engineers was held on September 10th, 2004 in Madison, WI at the Agricultural Engineering Laboratory on the UW-Madison campus. The meeting was held in conjunction with the Agricultural Engineering Department's 100th anniversary.

Before the dinner, meeting attendees were able to take tours of the campus and visit with professors and alumni, as well as pre-professional and graduate students.

Dave Kammel called the meeting to order at 6:45 p.m.

1. 55 people attended the dinner meeting, which included students, professors & alumni.
2. Jacob Holl gave a brief secretary & treasurer report. As of August 2nd, 2004, the Wisconsin Section had a balance of \$6016.25. Also a cash-flow analysis for the WI Section ASAE will be available for review at the winter meeting.
3. Dave Bohnhoff reported that Matt Digman has volunteered to spearhead the BSE Department website.
4. Aaron Flouro conducted a presentation on the ASAE Pre-Professional trip to the International ASAE meeting in Ottawa, Ontario. Mr. Flouro has been elected as National ASAE Secretary for the upcoming year for the Pre-Professionals. The students were awarded up to \$750 to spend on the expenses of attending the meeting by the WI Section ASAE, of which only \$300 was spent.
5. Naomi Uhlenhake made a motion to request the use of the remaining \$450 (of the original \$700) for use in the upcoming winter ski trip. This outing will include students from numerous other Pre-Professional chapters of ASAE. Motion passed.
6. Gary Bubenzer, Marshall Finner, Roger Mayhew & Ron Schuler each gave a brief review of changes in ASAE and the Biological Systems Engineering department.
7. Tentative Meeting Dates
 - Dec-04 Marshfield / Wausau
 - Feb-05 Milwaukee
 - Mar-05 Oshkosh or Madison Farm Show
8. The evening concluded with a Sheepshead tournament with the following top three rankings for a 26 person tournament:
 - Total Points: (1) Dave Bohnhoff @ 37pts; (2) Brian Hitt @ 23pts; (3) Bryan Yanke @ 17pts
 - Best Points/Hand: (1) Dave Bohnhoff @ 1.23; (2) Bryan Yanke @ 0.68; (3) Brian Hitt @ 0.58

The meeting was adjourned at 7:05 p.m.

Respectfully Submitted,
Jacob H. Holl
Wisconsin Section ASAE Secretary 2004-2005

Treasurer's Report August 2nd thru October 18th, 2004

Opening Balance – August 2nd, 2004 **\$6016.25**

Revenue:

<u>Date</u>	<u>From</u>	<u>Memo</u>	<u>Amount</u>
Sept-15-2004	WI Section ASAE	Summer ASAE Meeting	\$1555.00

Total: \$1555.00

Expenses:

<u>Date</u>	<u>To</u>	<u>Memo</u>	<u>Check #</u>	<u>Amount</u>
Sept-10-2004	Jacob Holl	Cash for Meeting	-	\$40.00
Sept-10-2004	Famous Dave's	Sept Mtg Dinner	520	\$440.00
Sept-10-2004	Dave Kammel	Sept Mtg Receipts	521	\$225.82
Sept-28-2004	UW Foundation	Sept Mtg Reimburse (Lunch)	522	\$584.00
Oct-18-2004	US Bank	Service Charge	-	\$13.00

Total: \$1302.82

Closing Balance – October 18th, 2004 **\$6268.43**

Cash-Flow Analysis

Below is a cash-flow analysis for the years 2001, 2002, 2003 & 2004 YTD with revenue and expenses categorized into appropriate columns. The 2004 YTD is only revenue/expenses that have posted as of 10/15/2004 and does not include any predicted expenses for student support or section meetings.

<u>Category</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004 YTD</u>
Awards	\$135.00	\$656.45	\$688.33	\$568.85
Misc	\$72.00	\$140.00	\$19.98	\$34.00
National Dues	\$2,290.00	\$2,082.00	\$1,496.00	\$1,951.50
Officer Meeting	\$76.45	\$109.08	\$128.42	\$137.15
Section Meeting Dues	\$3,920.50	\$1,370.00	\$1,645.00	\$2,248.00
Section Meeting Exp	\$2,949.66	\$2,522.58	\$1,754.14	\$2,209.69
Speaker Gift Certificate	\$50.00	\$50.00	\$40.00	\$0.00
Student Support	\$0.00	\$0.00	\$2,400.00	\$0.00
Total Revenue	\$6,210.50	\$3,452.00	\$3,141.00	\$4,199.50
Total Expenses	\$3,283.11	\$3,478.11	\$5,030.87	\$2,949.69
Account Gain / Loss	\$2,927.39	(\$26.11)	(\$1,889.87)	\$1,249.81

Respectfully Submitted,
 Jacob H. Holl
 Wisconsin Section ASAE Treasurer 2004-2005

“Call for Officer Nominations”

Wisconsin Section of ASAE is looking for nominations for 2005 section officers. This is an excellent opportunity to network with other professionals from across the state in a broad scope of agricultural disciplines. Our officers represent areas such as ATV design, agricultural facilities design, tillage, harvesting and material handling machinery design, power train design, commercial and residential lawn and garden product design, and others. Each year, the committee is comprised of a combination of new and past officers to fill the positions needed. The following positions will need to be filled:

Vice Chair-Program
Career Development Committee
Secretary/Treasurer
Vice Chair-Awards
Vice Chair-Membership
Vice Chair-Public Relations
Nominating Committee(2)

As Dave Kammel is currently Program Chair with Pat Pritzl serving as Vice Chair, these two individuals will be serving as Past Chair and Chair, respectively, for the 2005-2006 season. If you are interested in learning more, or know of someone who would be capable of filling any of the above positions, please contact

Scott Grahl: Scott.Grahl@am.wackergroup.com

Roger Thiel: rthiel@baylandbuildings.com

Dave Kammel: dwkammel@wisc.edu

“Call for Section Award Nominations”

Pat Uhlenhake

Each year the Wisconsin Section of the ASAE recognizes outstanding achievement during award presentations at its spring meeting. Wisconsin Section awards scheduled to be given in 2005 include the Agricultural Engineering Career Achievement Award, the Agricultural Engineering Student Of The Year, the Agricultural Mechanization/Engineering Technology Student Of The Year, the Agricultural Engineering Graduate Student Of The Year, and the Wayne G. Russell Award.

Although deadline for nomination of these awards is **January 30th**, now is the time to begin submitting nominations. Please realize that without your recommendations and assistance, those most deserving of our awards may go unrecognized.

The purpose, eligibility and nomination procedures for each award follow. All nominations/suggestions should be forwarded to **Pat Uhlenhake**, this year's Vice Chair of Awards.

Pat Uhlenhake

John Deere Horicon Works

300 N. Vine St., Mail code 543S

Horicon, WI

(920)485-5127 phone

uhlenhakepatrickj@johndeere.com

Wisconsin Section of the ASAE
AGRICULTURAL ENGINEERING CAREER ACHIEVEMENT AWARD

Purpose

To honor a Wisconsin Section member who has made outstanding contributions to Agricultural Engineering through work in research, education, design, and/or extension. Selection will be based on the candidate's lifetime accomplishments as an engineer.

Eligibility

The recipient must be a member of the Wisconsin Section of the ASAE in good standing. The award is intended for an individual approaching the twilight of their career or an individual who has recently retired.

Nomination Procedures

Nominations can be made by an individual (member or non-member), 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 ASAE. 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 the ASAE
AGRICULTURAL ENGINEERING STUDENT OF THE YEAR

Purpose

To honor an undergraduate Agricultural Engineering student for achievement in preparation for a career in the profession.

Eligibility

The recipient must be enrolled in an Agricultural Engineering program, must be a member of an authorized ASAE Student Branch, a national member (student or otherwise) of the ASAE, 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.

Nomination Procedures

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

1. ASAE 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 the ASAE
AGRICULTURAL ENGINEERING TECHNOLOGY STUDENT OF THE YEAR

Purpose

To honor an undergraduate student enrolled in an Agricultural Engineering Technology program for achievement in preparation for a career in the profession.

Eligibility

The recipient must be enrolled in an Agricultural Engineering Technology program, must be a member of an authorized ASAE Student Branch, a national member (student or otherwise) of the ASAE, 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.

Nomination Procedures

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

1. ASAE 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 the ASAE
AGRICULTURAL ENGINEERING GRADUATE STUDENT OF THE YEAR

Purpose

To recognize an Agricultural Engineering graduate student for singular achievement in developing and/or advancing the technology of engineering for food and agriculture.

Eligibility

The recipient must be a national ASAE 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.

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

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

1. (10%) The Nature of the Problem (an introduction to the research and description of the problem(s) to be solved)
2. (25%) Solution Procedures (a description of: experimental procedures, methods used, and/or approaches taken to solve the problem(s))
3. (25%) Research Conclusions and Significance of the Results.

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

Wisconsin Section of the ASAE 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 (ASAE member or non-member), group, company, or organization. All nominations should be accompanied by a type written summary (maximum length of two pages) describing the candidate's major contributions to Wisconsin's agricultural industry.

REGISTRATION
MARSHFIELD AGRICULTURAL RESEARCH CENTER
December 1, 2004

	Number Attending	Cost	Total
Tour Ag. Research Center – 1:00pm	_____	-----	_____
Dinner – 5:30pm	_____	\$15.00/person	\$ _____

Name(s): _____

Address: _____

City/Town: _____ State/Zip _____

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

e-mail: _____

Return completed form to:

Patrick Pritzl
 ASAE Wisconsin Section, Program Chair
c/o Modine Manufacturing Company
Heavy Duty & Industrial Division
 1500 DeKoven Avenue
 Racine, WI 53403-2552
 Phone - (262) 636-1079 FAX - (262) 636-1424 email - P.J.Pritzl@na.modine.com