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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*

March 2005

2004-2005 Editor: Damion Babler
email:

damion.babler@kuhnknight.com

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ASAE WI Section 2004-2005

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University of Wisconsin-Madison
(608) 262-9776

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Resource Engineering Assoc.
(608) 831-6563

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Jacob Holl
Weasler Engineering, Inc
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WISCONSIN SECTION MEETING WEDNESDAY, MARCH 30TH OSHKOSH FARM SHOW/ UTICA ENERGY

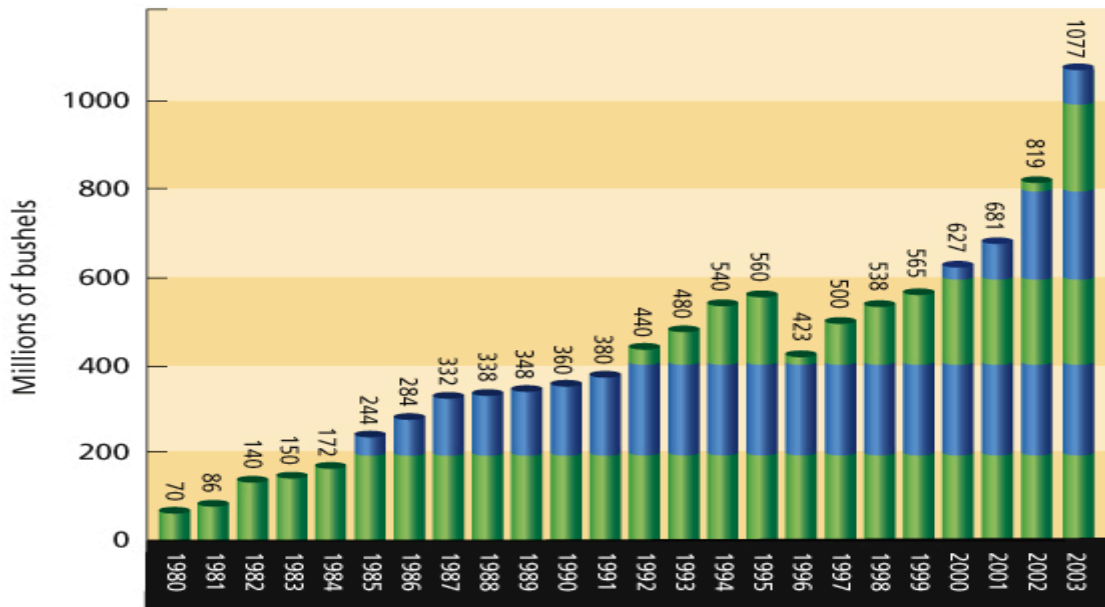
The ASAE Wisconsin Section meeting will be held on Wednesday, March 30th. We will be touring the Utica Energy Ethanol Plant at 2pm. The Oshkosh farm show is also being held on the same day, providing one with a full day of events.

With the rise of fuel prices, many people are looking at ways to curb our dependency on fossil and foreign fuels. Utica Energy, LLC plan just that, along with helping the local economy. Utica Energy is a state-of-the-art ethanol plant that has just completed a 24 million gallon per year expansion. The plant will process over 16 million bushels of corn in to 48 million gallons of ethanol and 200,000 tons of wet distillers grains annually. Demand for ethanol has increased in the last 10 years.

The Oshkosh Farm Show will be held March 29-31. It will have over 350 vendors and provides an opportunity to see the latest in farm machinery, tools, and services.

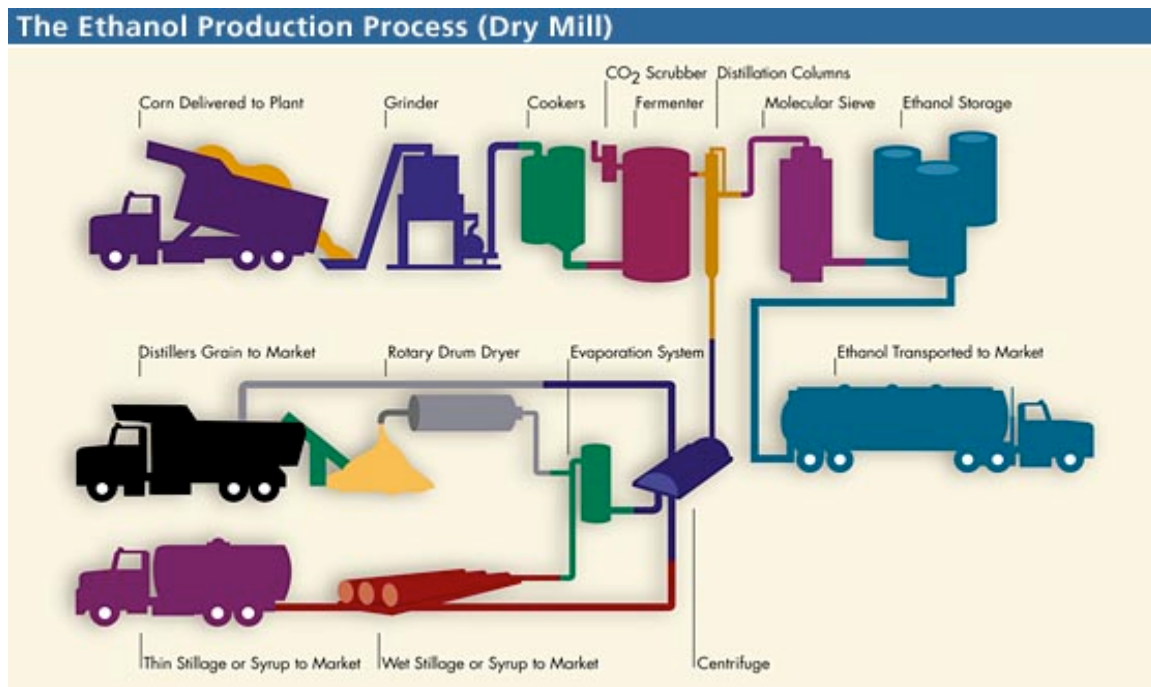
The production of Ethanol begins with field corn, though many other organic substances can be used. About 10% of the total corn crop is currently used for ethanol production. The corn is hauled into a local Ethanol plant, ground and then liquified, creating a mash. This mash then

Corn Utilized in Ethanol Production



Source: National Corn Growers Association

goes thru a process to convert the starch into sugars for fermentation, which is the next step. The alcohol that is produced from fermentation is then distilled to about 96% strength. To get to a proof of about 200, dehydration also occurs, removing the last amount of water from the ethanol. One bushel of corn yields 2.5-2.7 gallons of ethanol. Besides the ethanol being produced during fermentation, Carbon dioxide is also given off, collected and sold. The grain product that is left over is sold as distillers grain, a high protein feed supplement. .



According to the USDA, ethanol production adds 20-40 cents to the value of a bushel of corn. This helps farm income and the jobs created at these plants help the economies of the towns located near these plants. It has been estimated that ethanol production adds \$4.5 billion to U.S. farm income annually. Currently, there are 82 ethanol plants nationwide that have the capacity to produce over 3.5 billion gallons annually.

Ethanol was used in the late 1800's for lamp fuel. Henry Ford's Model T and many other early 1920's automobiles were originally designed to run on alcohol fuels. World War II brought on the next rise of ethanol consumption, followed by the oil crisis of the 1970's. Today, we are looking at it to curb our dependency on foreign fossil fuels and better the environment. Ethanol, when used as a gasoline component, improves combustion and reduces carbon monoxide emissions.

From the initial step of creating the ethanol to its end use, ethanol has many advantages. It creates new jobs, helps rural economies, creates usable byproducts, lessens our demand on fossil fuels and betters the environment.

Schedule of Events

Oshkosh Farm Show – EAA Grounds, Hwy 41, Oshkosh, WI
Show hours: 8-4

Utica Energy, 4995 State Rd. 91, Oshkosh, WI
Allow two hours for the tour. Dress for a modestly sheltered, but unheated environment.

Tour: 2pm

LaSure's Hall, 3125 S Washburn St., Oshkosh, WI 54904

Social time: 4:00-5:00pm

Program Speaker: 5:00pm

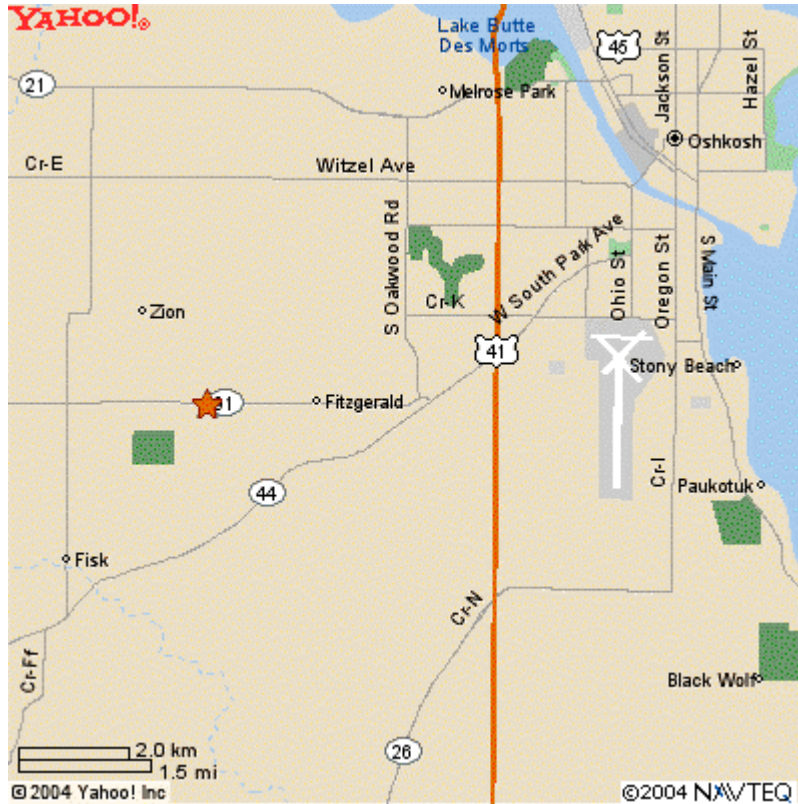
Mr. Philip Johnson, Utica Maintenance Manager, will be speaking on ethanol and the economy.

Dinner: 6:00pm

Meeting: 7:00pm

Adjourn

Utica Energy, LLC, 4995 State Rd. 91.



LaSure's Hall, 3125 S. Washburn St



Start at 4995 STATE ROAD 91, OSHKOSH on WI-91 going towards JAMES RD - go 2.5 mi Continue on W WAUKAU AVE - go 0.7 mi Turn on S WASHBURN ST - go <0.1 mi Arrive at 3125 S WASHBURN ST, OSHKOSH

Secretary's Report**December 2nd, 2004****Wisconsin Section ASAE**

The winter meeting of the Wisconsin Section ASAE was held on December 1st, 2004 at the Marshfield Agricultural Research Station. A few studies currently underway at this facility 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. Tom Drendel, the Marshfield ARS Superintendent, and Mike Bertram, Assistant Superintendent conducted the research station presentation.

Before dinner at the Belvedere Supper Club, Dick Straub presented a brief background on the 13 agricultural research stations within Wisconsin, and how they are used to promote the different aspects of agriculture and natural resources. More information can be obtained at www.cals.wisc.edu/research/stations/

Dave Kammel called the business meeting to order at 6:20pm

1. 18 people attended the dinner meeting, which included honored guests and pre-professionals.
2. Jacob Holl gave a brief secretary & treasurer report. As of October 18th, 2004, the Wisconsin Section had a balance of \$6268.43. A cash-flow analysis was available for review, and Jacob Holl will present a proposed 2005 budget at the next section meeting. Also US Bank has started charging our section a \$13 monthly service charge. US Bank does not currently offer a small business checking account without a service charge, so Jacob Holl will be reviewing other banking options.
3. Dave Kammel announced that officer nominations are now open for the 2005-2006 officer team. Award nominations are also open, please see the latest newsletters for more information or Patrick Uhlenhake at UhlenhakePatrickJ@JohnDeere.com
4. It was noted that the mailed November 2004 newsletter was missing one page that the emailed version had. If you would like an electronic copy of the Nov-04 newsletter please email Jacob Holl at hollj@weasler.com
5. The UW-Madison pre-professionals have decided against using the allotted \$450 for their winter trip costs. Instead they have proposed to use the funds towards the Midwest Rally of the ASAE Pre-Professionals in Lexington, KY. After some debate it was decided that Dave Kammel would write a letter to the pre-professionals that funds would only be used for educational and learning type experiences. The use of these funds will be reviewed at the next section meeting, along with the proposed 2005 budget.
6. Future Tentative Meeting Date
 - Mar-05 Oshkosh

The meeting was adjourned at 6:45pm

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

Treasurer's Report October 18th, 2004 thru February 11th, 2005

Opening Balance – October 18th, 2004 \$6268.43

Revenue:

<u>Date</u>	<u>From</u>	<u>Memo</u>	<u>Amount</u>
Dec-6-2004	WI Section ASAE	Dec 2004 WI Section Meeting Dues	\$240.00
Feb-1-2005	ASAE Nationals	National Dues	\$1450.00

Total: \$1690.00

Expenses:

<u>Date</u>	<u>To</u>	<u>Memo</u>	<u>Check #</u>	<u>Amount</u>
Dec-1-2004	Belvedere Supper Club	Dec 2004 WI Section Meeting	524	\$290

Total: \$290

Closing Balance – February 11th, 2005 \$7668.43

Cash-Flow Analysis

Below is the cash-flow analysis for the years 2001, 2002, 2003 & 2004 with revenue and expenses categorized into appropriate columns. The last column is a proposed budget from the treasurer for the specified categories for the 2005 calendar year.

<u>Category</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005 (Proposed)</u>
Awards	\$135.00	\$656.45	\$688.33	\$568.85	\$650.00
Misc	\$72.00	\$140.00	\$19.98	\$34.00	\$25.00
National Dues	\$2,290.00	\$2,082.00	\$1,496.00	\$1,951.50	\$1,900.00
Officer Meeting	\$76.45	\$109.08	\$128.42	\$137.15	\$150.00
Section Meeting Dues	\$3,920.50	\$1,370.00	\$1,645.00	\$2,488.00	\$2,375.00
Section Meeting Exp	\$2,949.66	\$2,522.58	\$1,754.14	\$2,499.69	\$2,500.00
Speaker Gift Certificate	\$50.00	\$50.00	\$40.00	\$0.00	\$150.00
Student Support	\$0.00	\$0.00	\$2,400.00	\$0.00	\$600.00
Total Revenue	\$6,210.50	\$3,452.00	\$3,141.00	\$4,439.50	\$4,275.00
Total Expenses	\$3,283.11	\$3,478.11	\$5,030.87	\$3,239.69	\$4,075.00
Account Gain / Loss	\$2,927.39	(\$26.11)	(\$1,889.87)	\$1,199.81	\$200.00

Respectfully Submitted,
Jacob H. Holl

2005 ASAE Nominations for WI Section Officers

Vice Chair-Program (Chair Elect)
(vote for one)

Bob Loehr

Career Development Committee
(vote for three)

Daniel Pederson
 Mike Huhman(chair)
 Jeff Marggi

Secretary/Treasurer
(vote for one)

Jacob Holl

Vice Chair-Awards
(vote for one)

Dan Thiemke

Vice Chair-Membership
(vote for one)

Nathan Ryan

Vice Chair-Public Relations
(vote for one)

Damion Babler

Nomination Committee
(vote for two)

Andy Jacobson
 Roger Thiel

Please fill out this ballot and return it to the address below by **Tuesday, March 22nd**.
Officers will be announced at the Section Meeting on Wednesday, March 30th.

David W. Kammel
Biological Systems Engineering
460 Henry Mall
Madison, WI 53706
Phone: 608 262-9776
Fax: 608 262-1228

dwkammel@facstaff.wisc.edu

**REGISTRATION
 UTICA ENERGY ETHANOL PLANT
 March 30, 2005**

	Number Attending	Cost	Total
Tour Utica Energy – 2:00pm	_____	-----	_____
Dinner – 6:00pm	_____	\$20.00/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