

## Newsletter Highlights

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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*

[www.asae.org](http://www.asae.org)

**SEPTEMBER 2004**

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### **ASAE WI Section 2004-2005**

#### **Chair**

Dave Kammel  
University of Wisconsin-Madison  
(608) 262-9776

#### **2002-2003 Past Chair**

Bob Pofahl  
Resource Engineering Assoc.  
(608) 831-6563

#### **Vice Chair Program (Chair-Elect)**

Pat Pritzl  
Modine

#### **Vice Chair Awards**

Pat Uhlenhake  
John Deere Horicon Works  
(920) 485-5127

#### **Vice Chair Membership**

Bob Loehr  
John Deere Horicon Works  
(920) 485-5365

#### **Vice Chair Public Relations**

Damion Babler  
Kuhn Knight, Inc  
(608) 897-2131

#### **Vice Chair Career Development**

Jeff Marggi  
Kuhn Knight, Inc  
(608) 897-2131

#### **Secretary and Treasurer**

Jacob Holl  
Weasler Engineering, Inc  
(262) 338-2161

**WISCONSIN SECTION MEETING  
FRIDAY, SEPTEMBER 10TH  
UW-MADISON CAMPUS**

**UW-MADISON  
BIOLOGICAL SYSTEMS  
ENGINEERING DEPARTMENT**

**“CENTENNIAL CELEBRATION”  
September 10-11, 2004**

**Come help us celebrate the centennial of the founding of the Farm Engineering Department, as it was originally called in 1904. The Department has also been known as the Agricultural Engineering Department (until 1996) and currently as the Biological Systems Engineering Department. The celebration will begin on September 10, 2004 at 9:30 A.M. on the UW-Madison campus.**

**A variety of activities are planned throughout the day that one can participate in. There will be a presentation on the department's history and present accomplishments, as well as future plans. Campus tours will be available. Two styles of golf can be played, as well as a few hands of the card game “sheepshead”. So come join in the fun, and help us celebrate this milestone of the Biological Systems Engineering Department.**

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**Biological Systems Engineering Department “Centennial Celebration”**

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Come help us celebrate the centennial of the founding of the UW-Madison Farm Engineering Department, as it was originally called in 1904. The department has been known also as the Agricultural Engineering Department (until 1996) and currently as the Biological Systems Engineering Department. The celebration will begin at 9:30 A.M. on September 10, 2004 with a continental breakfast in Upper Carson Gulley cafeteria. A history of the department will be presented and special guests will highlight some of the department's past and present accomplishments beginning at 10 A.M. Future plans and directions of the department will also be featured. A noon luncheon will be served in Upper Carson Gulley. Awards, scholarships, and fellowships will be presented following the luncheon. Please use the registration form if you plan to join us for lunch.

Various activities are planned for the afternoon and evening. You can choose to tour campus buildings and facilities, play disk golf at Elver Park departing campus at 1:30 P.M., and/or just visit with friends and faculty at our office building or the lab building. Travel to the disk golf event is on your own.

A commemorative polo shirt will be distributed to those registering for the celebration. Please use the registration form to indicate your interest in an activity and to let us know the number and size of the commemorative polo shirts.

WALSAA has scheduled a golf outing in the afternoon followed by a picnic supper. See the accompanying article and registration form. Travel to the golf outing is on your own.

At 4:30 PM, the Wisconsin Section of ASAE will be offering a dinner meal followed by a business meeting at the Agricultural Engineering Laboratory. The Wisconsin Section will offer a program commemorating the centennial following the business meeting.

At 8 P.M. join in a friendly game of sheepshead at the Agricultural Engineering Laboratory. Prizes will be awarded and refreshments will be available.

WALSAA has scheduled a Fire-up meal and access to football game tickets on September 11. See the accompanying announcement for details on how to register and participate in those activities.

If you want to stay on campus on the night of September 10, the Friedrich Center has a block of rooms reserved until August 16, 2004. Rooms (\$77 for singles, \$87 for double occupancy) can be reserved by calling 608-263-4799 and mentioning that you are with the BSE Centennial celebration. Parking for Friday and Saturday is included with the room charge. You need not request a parking pass on the registration form if you are staying at the Friedrich Center. The Friedrich Center is located within walking distance of all the on-campus events, thus it is an attractive alternative for those planning to attend Friday and Saturday portions of the program.

**Parking**

Parking on campus is difficult and tickets are expensive (especially if a towing charge is added). For your convenience, we will provide a limited number of parking passes. Indicate on the registration form if you need an on-campus parking pass. Passes will be sent if you get your registration form to Pat Pritzl by August 23, 2004. If you register for a pass but do not receive a pass by mail, stop by room 115 Ag Engineering Building at 460 Henry Mall to pick it up.

If you do not register for a parking pass or would like to pay for parking in a lot other than 60 or 62, the fee is \$7.00/day or \$3.50/half day. To pay for a parking permit in advance and have it sent to you, contact Melissa at 608-262-8683 by August 27 and give her your lot preference and credit card information. You can pick up a permit at the Transportation Services Office at room 124 WARF Building prior to parking.

Free campus buses (numbered 80) operate between the parking areas and the various venues on campus.

**Please use the registration form to indicate when you will be joining us for the various activities on September 10, to request a commemorative shirt and to request a parking pass. Return the form and payment to the address at the bottom of the form.**

If you have questions, contact Debby Sumwalt at 608-262-3310.

**SCHEDULE OF ASAE EVENTS**

9:30 a.m.– Continental Breakfast – Upper Carson Gulley Cafeteria

10:00 a.m. – Department Presentation

12:00 (noon) – Luncheon – Upper Carson Gulley Cafeteria

12:45 p.m. – Awards, Scholarships, and Fellowships

1:30 p.m. – Disk Golf – Elver Park  
- Campus Tours

4:30 p.m. – Section Dinner

5:30 p.m. – Commemoration Program

8:00 p.m. – Sheepshead Tournament

**REGISTRATION**  
**BIOLOGICAL SYSTEMS ENGINEERING CENTENNIAL CELEBRATION**  
**September 10, 2004**

	Number Attending	\$/each	Total (\$)
Continental Breakfast 9:30 A.M., Upper Carson Gulley	_____	no charge	no charge
Lunch 12:00 Noon, Upper Carson Gulley	_____	10.00	_____
Disk Golf 2:00 P.M., Elver Park	_____	no charge	no charge
Campus Tours 1:30 P.M., Agric. Engineering Bldg.	_____	no charge	no charge
ASAE WI Section Dinner 4:30 p.m., Ag Engineering Laboratory	_____ _____	5.00 Student 20.00 Non-student	_____ _____
Sheep's Head Tournament 8:00 P.M., Agric. Engineering Lab	_____	no charge	no charge
<b>TOTAL*</b>			_____

**\* Make checks payable to ASAE Wisconsin Section.**

Name(s): \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City/Town: \_\_\_\_\_ State/Zip \_\_\_\_\_  
 Telephone: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ FAX: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_  
 e-mail: \_\_\_\_\_

Do you need a parking permit? (circle one) **Yes, please send,** **Yes, will pick up,** **No**

Select Polo Shirt Number/Sizes: \_\_\_\_\_/S \_\_\_\_\_/M \_\_\_\_\_/L \_\_\_\_\_/XL \_\_\_\_\_/XXL

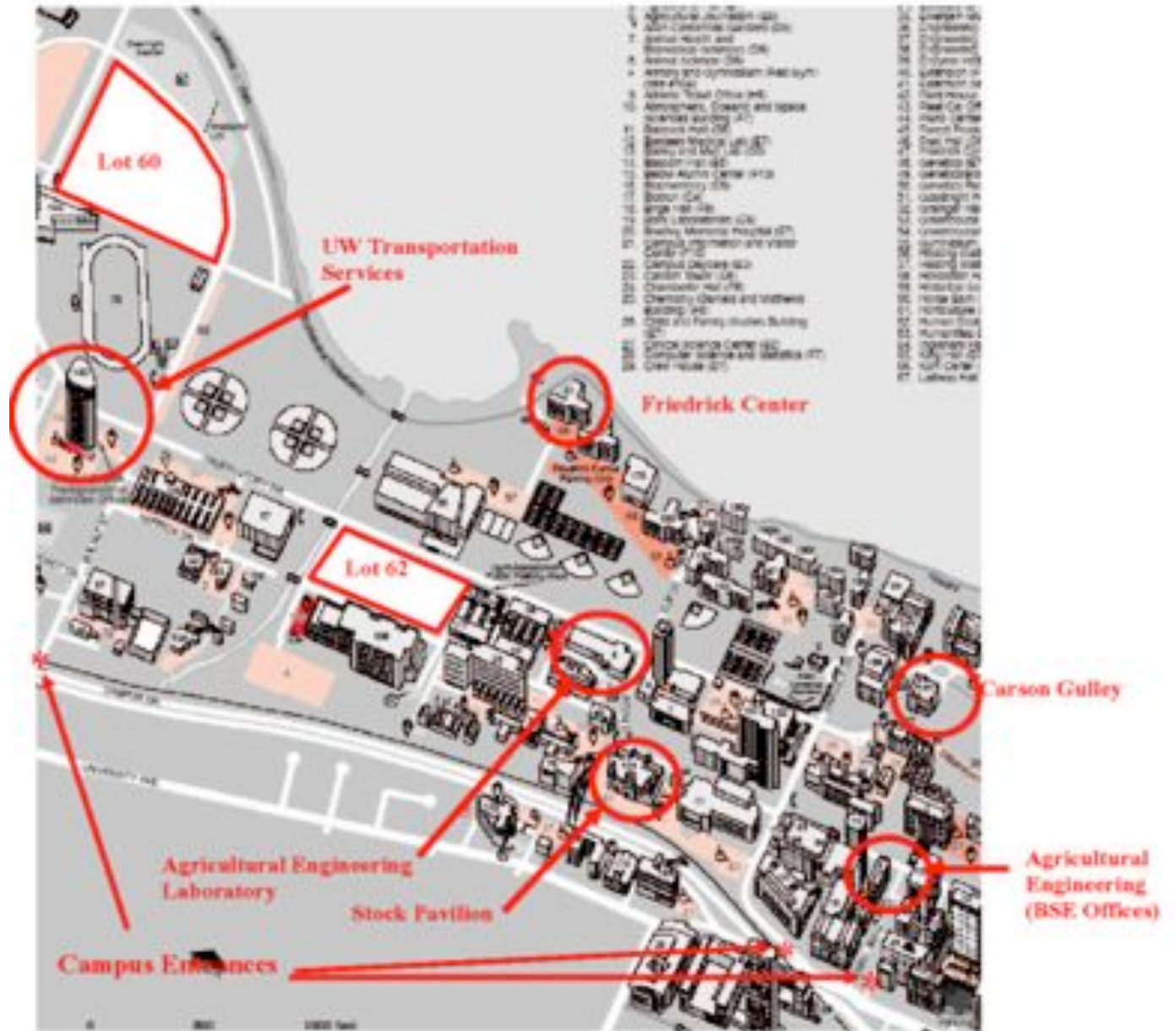
Return completed form and check made out to ASAE Wisconsin Section to:

**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



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<p style="text-align: center;"><b>WALSAA ACTIVITIES</b> <b>September 10-11, 2004</b></p>
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**GOLF OUTING**

This golf outing will provide camaraderie amongst the players and an opportunity to meet Dean Aberle. It also provides an opportunity to help support CALS scholarships. Play will begin with a shotgun start at noon on Friday, September 10, 2004, at the Oaks Golf Course in Sun Prairie. An evening picnic is included in the registration fee.

**FOOTBALL FIRE-UP AND FOOTBALL GAME**

The Football Fire-up meal will begin at 8 A.M. at the Agricultural Research Station-West Madison (Mineral Point Road, west of the Beltline, Highway 12 and 14). You can obtain tickets for only the Fire-up or for both the Fire-up and football game (UW-Madison vs. University of Nevada-Las Vegas). A shuttle bus will operate between ARS-West Madison and campus. For \$5 you can park at ARS-West Madison and ride the bus to campus. The bus will get you to Camp Randall by 10 A.M. It will pick you up at the Stock Pavilion 45 minutes after the game ends and return you to ARS-West Madison to pick up your car. If you want to park on campus, paying for parking, you can shuttle to ARS-West Madison to participate in the Fire-up for the same \$5 fee. That shuttle will leave the Stock Pavilion at 7:30 A.M. Your shuttle bus will deliver you to Camp Randall by 10 A.M. for the 11 AM game start.

**SCHEDULE OF WALSAA EVENTS**

9/10/04 – 12:00(noon) – Golf Outing followed by a Picnic

9/11/04 – 8:00 a.m. – Football Fire-up

11:00 a.m. - Gametime

**REGISTRATION FOR WALSAA EVENTS  
IN CONJUNCTION WITH  
BIOLOGICAL SYSTEMS ENGINEERING CENTENNIAL CELEBRATION**

	Number	\$/each	Total (\$)
Golf outing, Sept. 10, 2004, Noon- shotgun start, Oaks Golf Course, Sun Prairie, Picnic follows the match	_____	70.00	_____
Football Fire-up **, Sept. 11, 2004 8:00 A.M., Agricultural Research Station-West Madison	_____	20.00	_____
Football Fire-up ** <b>and</b> football game tickets, Sept. 11, 2004 Game time 11:00 A.M., Camp Randall	_____	53.00*	_____
*Handling fee for game tickets: 1-4 tickets = \$6; 5-8 tickets = \$10; 9-12 tickets = \$15; > 12 tickets = \$20	_____		_____
** Park and ride shuttle (round trip) Agricultural Research Station-West Madison to Campus (optional)	_____	5.00	_____
		TOTAL***	_____

\*\*\* Make checks payable to **WALSAA** or fill out credit card information.

MasterCard      Name on Card: \_\_\_\_\_  
 Visa              Credit Card No.: \_\_\_\_\_  
    Expiration Date: \_\_\_\_\_

Name(s): \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City/Town: \_\_\_\_\_ State/Zip: \_\_\_\_\_  
 Telephone: (\_\_\_\_) \_\_\_\_\_ FAX: (\_\_\_\_) \_\_\_\_\_  
 e-mail: \_\_\_\_\_

Return this form and check to:  
 Rick Daluge, WALSAA  
 116 Agricultural Hall  
 1450 Linden Drive  
 Madison, WI 53706-1562  
 Phone: 608-262-5784

e-mail: WALSAA@

**“Reflections”**  
**from the UW-Madison outgoing Chair of**  
**Biological Systems Engineering Department**  
**Ronald T. Schuler**

On June 30, 2004, I stepped down as department chair of Biological Systems Engineering at the University of Wisconsin and was asked to share some thoughts about the department with the members of the Wisconsin section of ASAE. My background for sharing includes my ten years as a student dating back to 1958, when my current office was the department shop, and twenty years serving on the BSE department faculty, five years were as chair. In addition I spent fourteen years at three other universities: one was the University of Wisconsin-Platteville.

This is at a time when we are planning the Centennial Celebration of the department and will be reviewing our accomplishments and developing plans for the department's future. The department has a rich history of accomplishments which has resulted in major contributions to agriculture and society by the alumni and faculty. Many of our graduates have held and/or hold key positions in industry, government, and education.

Training students continues to be the dominant goal of the department faculty even though we have gone from three to one undergraduate program and are required to seek more outside funding to maintain our research and extension programs at our current levels and be competitive with other departments. As a result fewer undergraduates are trained but more graduate students are being trained. Members of the faculty gain a great deal of job satisfaction of seeing students entering college and transitioning into graduate engineers and when they receive recognition for their accomplishments. Job advancement and awards received from professional societies and employers are just a few examples where our alumni are recognized for their accomplishments.

The research program continues to address problems faced by the agricultural production systems on Wisconsin farms but has an increased focus on issues beyond the farm gate. Results of department in past years include major contributions to developments such as forage chopper, tree planter, mechanical fruit harvester, animal facilities, irrigation and drainage systems, and erosion control. Research programs have been developed in the food engineering area dealing with such problems as food safety and food rheological properties. Other areas include urban water quality issues instead of just rural issues. A key element of this research is training our graduate students to solve these problems.

Extension/outreach continues to be a major component of the department where research results are made available to the end user. It may be modernizing a dairy facility, selecting and adjusting agricultural machinery or building an erosion control or drainage system.

In the future, training students will continue to be a dominant part of the BSE programs but the biological content will continue to increase as the world faces continued food and water quality issues and energy issues where bio-based energy sources will replace the finite petroleum energy sources as they become more costly. Also the successful biotechnology discoveries will require engineering in order to make them available to the public. The future is bright for our field but we must continue to solve society's problems as graduates, faculty and students applying engineering principles to biological systems.

Over the past five years I have enjoyed serving as department chair and seeing our alumni and others at professional meetings. I look forward to seeing alumni at future professional meetings, especially at our centennial celebration, September 10, 2004 and hearing about their successes.



## “SPOTLIGHT” ASAE MEMBERS IN INDUSTRY

### BAYLAND BUILDINGS, INC

Bayland Buildings, Inc. is a turnkey Design/Build general contractor based in Green Bay, WI with annual sales of 25 million. Construction work is divided among concrete, masonry, steel, wood, and flooring crews. Bayland has a structural steel division for the manufacture of both commercial and agricultural buildings. The engineering department is made up of myself and four drafters. My responsibilities include design calculations, code compliance, sealing and signing of commercial plans, and department manager. For additional information, please visit our website at [www.baylandbuildings.com](http://www.baylandbuildings.com).



- Design Build
- General Contractors
- Construction Managers
- Build to Suit With Lease
- Architectural Engineering Services



-Article was provided by Roger Thiel, P.E., who is a Structural Engineer for Bayland Buildings.

### GEHL COMPANY

Gehl Company (Nasdaq NM: Gehl) offers a complete line of material handling equipment for both the agricultural and construction markets as well as compact equipment attachments through its CEA subsidiary. The agricultural line includes round balers, forage harvesters, disc mowers, grinder mixers, mixer feeders, forage blowers and wagons, and rakes. The Gehl compact construction equipment line includes skid loaders, compact track loaders and all-wheel-steer loaders, compact utility loaders, compact excavators, Dynalift® telescopic handlers and Power Box® Asphalt Pavers used worldwide. Founded in 1859, the company is headquartered in West Bend, WI with manufacturing facilities in West Bend, WI, and Madison and Yankton, SD. The company markets its products under the Gehl and Mustang brand names through a network of over 650 North American dealer outlets, as well as the complete line of EDGE brand attachments. For more information on Gehl Company visit [www.gehl.com](http://www.gehl.com)

-Article was provided by Scott Grahl who is a project engineer on the Gehl Round Baler product line.



# Secretary's Report

## March 17, 2004

### Wisconsin Section ASAE

The spring meeting of the Wisconsin Section American Society of Agricultural Engineers was held on March 17<sup>th</sup>, 2004 in Madison, WI. The meeting was held in conjunction with the Midwest Ag Expo being held at the Alliant Energy Center of Dane County.

Before dinner attendees were able to find out information on the Chronic Wasting Disease (CWD) that has been in the news around the State of Wisconsin. Jamie Nack from the UW-Madison Department of Wildlife Ecology reviewed the characteristics and impact of the CWD disease itself, as well as the ongoing project of tracking CWD with radio telemetry.

Bob Pofahl called the meeting to order at 6:40 p.m.

1. 52 people attended the meeting, which included the guest speaker Jamie Nack and students from UW-Madison & UW-River Falls.
2. Brian Hitt gave a brief secretary's report. As of February 5th, 2004, the Wisconsin Section had a balance of \$6376.62
3. Dave Bohnhoff reported that he is looking for volunteers to help update/fix the Wisconsin Section ASAE web site.
4. The 100<sup>th</sup> anniversary celebration of the UW-Madison BSE Department was discussed. It was proposed to have a late summer celebration sponsored by the WI Section of ASAE. A committee to work on the 100 year anniversary was put together consisting of: Brian Holmes (coordinator), Pat Uhlenhake, Jeff Topel, John Roll & Bob Pofahl.
5. Damion Babler announced the election results for the 2004-2005 slate of officers.

<u>Section Office</u>	<u>Name</u>
Chair	Dave Kammel
Past Chair	Bob Pofahl
Vice Chair-Program	Pat Pritzl
Secretary-Treasurer	Brian Hitt
Vice Chair-Public Relations	Damion Babler
Vice Chair-Awards	Jacob Holl
Vice Chair-Membership	Bob Loehr
Career Development Committee	Jeff Marggi (Chair); Mike Huhmann & Daniel Pederson
Nominating Committee	Scott Grahl &

*\*Note: Due to Brian Hitt recently accepting a position with Polaris Industries he was unable to continue his position as Secretary/Treasurer. Jacob Holl has agreed to fulfill his responsibilities with Patrick Uhlenhake taking over as Vice Chair-Awards for the 2004-2005 year.*

6. Jacob Holl presented the following 2003 Student & Young Engineer awards:
  - Agricultural Engineering Technology Student of the Year: Justin Storlie (UW – River Falls)
  - Agricultural Engineering Undergraduate Student of the Year: Si Akin (UW - Madison)
  - Agricultural Engineering Graduate Student of the Year: Anthony Vandermuss (UW – Madison)
  - Young Engineer Award: Todd England (J-Star Bodco Industries)

The meeting was adjourned at 7:45 p.m.

Respectfully Submitted,

Jacob H. Holl

Wisconsin Section ASAE Secretary 2004-2005

# Treasurer's Report      February 5<sup>th</sup> thru August 2<sup>nd</sup>, 2004

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**Opening Balance – February 5<sup>th</sup>, 2004**      **\$6376.62**

**Revenue:**

<u>Date</u>	<u>From</u>	<u>Memo</u>	<u>Amount</u>
Mar-22-2004	WI Section ASAE	Winter ASAE Meeting	\$693.00
Apr-27-2004	Jack Walters & Sons	Meeting Supplies	\$21.00
May-07-2004	ASAE Nationals	National Dues	\$551.50

**Total: \$1265.50**

**Expenses:**

<u>Date</u>	<u>To</u>	<u>Memo</u>	<u>Check #</u>	<u>Amount</u>
Mar-17-2004	Justin Storlie	Student Award	513	(\$150.00)
Mar-17-2004	Si Akin	Student Award	514	(\$150.00)
Mar-17-2004	Tony Vandermuss	Student Award	515	(\$150.00)
Mar-17-2004	Dave Bohnhoff	Vondra Engraving Plaques	516	(\$73.85)
Mar-17-2004	UW-Madison	Student Award Plaques	517	(\$45.00)
Mar-17-2004	Coliseum Bar	March Meeting Dinner	518	(\$919.87)
May-07-2004	Dave Kammel	ASAE Officer Mtg	519	(\$137.15)

**Total: \$1625.87**

**Closing Balance – August 2<sup>nd</sup>, 2004**      **\$6016.25**

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

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<p style="text-align:center"><b>“AWARDS”</b> <b>LEMELSON-MIT PRIZE</b></p>
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CALL FOR NOMINATIONS

The Lemelson-MIT Program is seeking nominations for its 2005 awards. From their press release:

The Lemelson-MIT Prize – called the “equivalent of the Oscar for inventors” by CNN Headline News – was established in 1994 by the late independent inventor Jerome H Lemelson and his wife, Dorothy. Administered by the Massachusetts Institute of Technology, the Lemelson-MIT Prize (\$500,000) and Lemelson-MIT Lifetime Achievement Award (\$100,000) are presented each year to American inventor-innovators for outstanding inventiveness and creativity. With these awards, the Lemelson-MIT Program seeks to inspire youth to carry on the spirit of ingenuity that underlies this nation’s health, prosperity and leadership.

For nomination information and forms visit the Program’s website at <http://web.mit.edu/invent>. The deadline for nomination submission is **Thursday, October 7, 2004**.