

MISSISSIPPI MINUTES

Mississippi Valley Section



Winter 2002

“News From The Valley”

Winter Meeting Announcement and New On-Line Registration Process!

ANNOUNCING:

SAE/ASAE Joint Winter Meeting,
Tuesday, 29 January 2002,
Holiday Inn
Davenport, IA

3 Technical Sessions starting at 5:00 PM

After dinner speaker: " Battlebots! It's Going to Take a Mom to Clean This
Up! "

For more details concerning the meeting and registration, please use the MVS SAE website:

http://www.sae.org/servlets/sectionEvent?PAGE=getSectionEvents&OBJECT_TYPE=SectionEventAdmin&HEIR_CODE=MS040#76235

As we notified you in the Fall 2001 newsletter, we will only send hard copies of the announcement to those who have specifically requested them.

If you are planning to attend, please pre-register on the SAE website by 22 January 2002. We will have to establish the meal count by that date.

(You will need to use your MySAE login to access the registration sign-up details. If you are login in for the first time, your ID number is your 10-digit member number, found on your membership cards and all SAE snail-mail communications. Your password would be [default all-caps; first-letter of your FirstName then your LastName; without spaces], unless you've already changed either of them.) (e.g. JSMITH for James Smith.)

Chairperson's Corner

By Dan Cowley, MVS Chair

The 2001-2002 section objectives are as follows:

- Make the fullest use of the electronic media for section communications.
- Establish ten (10) new AWIM (A World In Motion) partnerships within the section.
- Generate \$1500 in extra funding from local sources.

By now many of you have received at least one or two updates from your section officers via email. You may expect more email in the future making announcements or requests for assistance for local section events. Please stay informed of section updates. If you are not connected, I would encourage you to subscribe to the MVS listserv by sending an email message to mvs-on@saesections.org. (If you are a member in good standing you should get a reply. Just follow the instructions you received from the return email message.)

The Quad Cities meeting will be the first MVS meeting that will require registrations be made strictly on-line. I would encourage you to sign up for the meeting on the 29th of January. (The deadline for registration has been set to 22 January 2002.) The meeting will have some fine technical sessions and will feature an after-dinner presentation on BATTLE BOTS from one of our own members, Norm Muzzy, and his son Neal.

Since the last newsletter, the section held another successful meeting at the Holiday Inn in Cedar Falls, Iowa. We want to thank Steve Hart and those who assisted him.

There continues to be interest from schools and a need for volunteers in the AWIM activities within the section. Contact Paul Exstrom if you are interested in helping.

We continue to closely monitor income and expenses so we can meet the budget goals for the year.

If you have ideas how the section would better serve your interests, I would invite you to share them with one of the governing board members or send me an e-mail message (CowleyDaniel@JohnDeere.com). We need and welcome your input.

A Special Thank You:

At the last governing board meeting, Dan Cowley donated \$100 to the MVS section. His support is appreciated.

Annual Nominating Committee Meeting

ANC Delegate Jim Bolinger will represent MVS-SAE at the Annual Nominating Committee (ANC) Meeting to be held in Detroit, on 04 March 2002, The ANC meeting is held in conjunction with the "2002 SAE International Conference and Exposition". President and directors will be nominated to lead SAE for 2003-2004. If anyone wishes to discuss candidates contact:

Jim Bolinger @ 515-239-6275 or @ jbolinger@sauer-danfoss.com.

Spring Meeting in Dubuque with Student Paper Competition

Spring meeting (tentative arrangements)

Date: Thursday, 25 April 2002

Location: Dubuque, Iowa

Program:

(Possible) Plant tour

Student paper contest

University of Wisconsin - Platteville

University of Iowa

Iowa State University

Evening meal

After-dinner speaker

NOTE to students and advisors: Start your plans now for the student paper contest.

For more information you may contact

Dr. Greg Luecke @ 515-294-5916

or @ "Dr. Greg R. Luecke" grluecke@iastate.edu

SAE on the World Wide Web

SAE web page.....<http://www.sae.org>

MVS web page.....<http://www.saesections.org/mvs/>

Recent A WORLD IN MOTION activities in the MVS area.

In November a letter was sent to 155 Science Teachers in our Section Area. These letters introduced these teachers to the new A WORLD IN MOTION : The Design Experience, Challenge 1. This Challenge is for the fourth, fifth and sixth grades. We made new contacts because of these letters and others might have sent applications without my knowledge.

Skimmer Challenge (grade 4). Students make paper sailboats propelled by fans across the floor. They test the effects of different sail shapes, sizes and construction on the performance of their skimmers. The goal of this challenge is to design a set of skimmers reliably meeting the specific performance criteria. Friction, forces, and the effect of surface area are some of the physical phenomena students encounter in this challenge.

Jet Toys Challenge (grade 5). Students make balloon-powered toy cars. Their challenge is to design an appealing toy performing in a specific way, such as travels far, carries weight, or goes fast. Students experiment with different chassis designs and nozzle sizes to determine their effect on the JetToy's performance. Jet propulsion, friction and air resistance are the core scientific concepts students explore in this challenge.

Steel Can Rover Challenge (grade 6). Students make rolling toys from coffee cans, powered by rubber bands and weights. The challenge for students is to design a fleet of toy vehicles meeting a range of performance criteria including speed, travel distance and manner of stopping. Students experiment systematically to explore relationships between rubber band thickness, number of wind-up turns, amount of weight and wheel size. Physical concepts embedded in this challenge include inertia, friction and energy transformation.

Math and Science vicechairman, Paul Exstrom

Engineers Week Announcements

Engineers' week is February 17-23, 2002; see <http://www.eweek.org/> for information.

QCESC eweek banquet is February 22, 2002 at the Holiday Inn, Davenport, IA. Keep checking <http://www.qcesc.org/eweek.htm> and <http://www.saesections.org/mvs/> for more information as it becomes available.

42V Seminar at ISU

The SAE 42 V automotive electrical system Web-cast seminar will be presented in Howe Hall at Iowa State University on Friday, March 22, 2002 at 10:30 - 12:00 AM.

Questions? Call Max Gassman, Continuing Ed Chair, (515) 294-4587

SAE's Groundbreaking News!

SAE International Off-Highway Congress co-locates with CONEXPO-CON/AGG in 2002!

March 19-23, 2002

Las Vegas, Nevada, USA

The industry's number one resource for the latest advances in Off-Highway technology digs in with CONEXPO-CON/AGG to provide you with one location to meet all of your industry needs!

We're Live in Vegas!!

SAE's Off-Highway technical papers and presentations in the CONEXPO-CON/AGG show will be an exciting venue for off-highway engineers! Attend Off-Highway Congress and be exposed to an entirely new networking experience with more than 135,000 industry colleagues and more than 2,300 exhibiting companies from around the world!

Click and go: **REGISTER by February 15, 2002 and Save \$30!** :

www.sae.org/offhighway

At the site, you'll automatically be linked to the registration area where you can register in advance, make hotel accommodations and all your travel plans directly on-line!

Catch a glimpse of the Technical Conference Session matrix:

www.sae.org/offhighway/matrix

More than 40 technical sessions and panel discussions will be held at this year's Congress focusing in the following areas:

- *42 Volt Technology*
- *Drivetrain Technology*
- *Advanced Technologies*
- **Surface Metallurgy: (Special Focus Area: More than 7 featured sessions!!)**
- **Emerging Powertrain Technologies Panel**
- **Injury Biomechanics**
- **Brakes, Clutches, Friction Materials**
- **New Vehicle Introduction Panel**
- **DOE Argonne Laboratory Panel**
- **SAE teams up with IFPE to hold joint technical sessions in fluid power and hydraulics technology.)**

Showcase - SAE Off-Highway!

Stop by the **SAE Exhibit Pavilion, 2nd level, booth #S15121**, and find out what SAE offers the Off-Highway industry! SAE members who register through our website will receive a free gift just for stopping by!

For questions or more information, contact SAE at: 724-772-7131 or e-mail us at:

meetings@sae.org

Your Company Representative

Contact the person listed in your company to sign up for meetings. Obtain SAE materials, or get more information. If you live near one of these companies, feel free to contact those listed for ride sharing or other SAE needs. If your company has three or more SAE members and isn't listed here, you may want to consider becoming your own company's representative. Contact Matt Oliver for more information.

Sauer-Danfoss, Ames

Jim Sheets.....(515) 239-6584
Fax (515) 239-5584
Email: jsheets@sauer-danfoss.com

John Deere Harvester-Cyl. Div., E. Moline

Larry Adams.....(309) 765-7482
Fax (309) 765-7379
Email: he00316@deere.com

J. I. Case, Burlington

Roger Mickelson.....(319) 754-3266
Fax (319) 754-3105
Email: rmickelson@casecorp.com

Koehring Cranes & Mark Ind., Waverly

Lee Linderkamp.....(319) 352-9364
Fax (319) 352-5727

John Deere Tech. Center, Moline

Jeff Giordano.....(309) 765-3890
Fax (309) 765-3807
Email: jg29005@deere.com

John Deere IE PEC, Dubuque

Steve Whiteman.....(563) 589-6670
Fax (563) 589-5464
Email: WhitemanSteve@dubuque.deere.com

John Deere DSM Works, Des Moines

Jeff Postal.....(515) 289-3153
Fax (515) 289-3178
Email: PostalJeff@JohnDeere.com

John Deere PEC, Waterloo

Matt Oliver (319) 292-8219
Fax (319) 292-8462
Email: OliverMatthewR@JohnDeere.com

Case Corp, Davenport

James Schmidt (319) 285-1043
Fax (319) 285-1197
Email: jschmidt@casecorp.com

John Deere Harvester Prod. Dev., E. Moline

Gene Beckman (309) 748-6705
Email: ag05179@deere.com

Rockwell Collins Inc., Cedar Rapids

Charles Miksch

(319) 295-8232

Fax (319) 295-7260

Email: clmiks@collins.rockwell.com

Deere & Co. Eng. Stds. Moline

James Miller

(309) 765-4918

Fax (309) 765-9860

Email: jm46584@deere.com

Tri/Mark Corp., New Hampton

Marvin Larsen

(515) 394-3188

Fax (515) 394-2392

Email: Marvin.Larsen@trimarkhardware.com

Winnebago Industries, Forest City

Steve Futrell

(515) 582-3535

Fax (515) 582-6714

Email: futrell@netins.net

Iowa State University, Ames

Greg Luecke

(515) 294-5916

Fax (515) 294-3261

Email: grluecke@iastate.edu

Deere Tech. Services, Moline

Kevin Kebler

(309) 765-4148

Fax (309) 765-5769

Email: ty37417@deere.com

Vermeer Mfg., Pella

Shane Bollinger

(641) 621-7926

Fax (641) 628-7739

Email: sbollinger@vermeermfg.com

University of Iowa, Iowa City

(Open)

McLaughlin Body Co., Moline

Bill Johnson

(309) 762-7755 ext. 6028

Fax (309) 762-2823

Email: bjohnson@mclbody.com

Parr Mfg., Des Moines

Bill Luther

(515) 285-8681 ext. 40

Fax (515) 287-6800

Email: bill_luther@parmfg.com

Newsletter Articles Wanted!

Email any articles you would like to see published or corrections that need to be made to the MVS Newsletter Editor:

Steve Hart HartStephenJ@JohnDeere.com