

MISSISSIPPI MINUTES

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space®
INTERNATIONAL



Fall 2001

“News from the Valley”

MVS enters the Age of Electronic Mail — PLEASE TAKE NOTICE !!!

THIS IS THE LAST TIME YOU WILL RECEIVE THE MVS Newsletter in the US Mail — UNLESS you tell us you cannot or feel strongly about receiving email delivery of the newsletter in the future, the next newsletter will be emailed to all MVS members whose email addresses are known to SAE.

If you do not receive your next issue of the MVS newsletter by email in December 2001, you will need to send an email to mvs-on@saesections.org and then follow the instructions you receive via email.

There will be two ways to receive/view the newsletter — electronically:

1. If you subscribe to the listserv, you will receive it at your email address when the newsletter is published.
2. Everyone may log on to the MVS Website and it will be available there after publication.

AGAIN — IF circumstance are such that you want or must continue to receive the newsletter by US Mail, please notify us immediately by sending a note to Steve at the following address:

Steve Hart
John Deere Waterloo PEC
PO Box 8000, 82-K
Waterloo, IA 50704

OR

Email: HartStephenJ@JohnDeere.com

Thanks for helping MVS to save publication expenses and improve publication response time!

Upcoming Events	
Dec. 18, 2001	Governing Board Meeting
Jan. 7, 2002	Spring Newsletter articles due
Jan. 29, 2002	Quad Cities Winter Joint Meeting with ASAE

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Chairperson's Corner

By Dan Cowley, MVS Section Chair

As I address you for the first time, we are already at least 4 months into the fiscal year. Your Governing Board and various committee chairs are hard at work making things happen for the section membership.

I want to recognize Jim Miller for his extraordinary work while coordinating the visit of Max Rumbaugh and Brian Taylor from SAE International Headquarters. On September 6th, Jim arranged both breakfast and lunch focus groups with younger and potential members to the MVS. There was some very positive feedback from this activity. One of the participants wrote the following note:

"Thanks for inviting us! You should know that you [Jim Miller] and Max Rumbaugh converted four skeptical electrical engineers into four SAE members. We returned to the office on Thursday and submitted our applications!"

If a conclusion could be drawn from the focus groups, we need to start including more "electrically/electronically" oriented sessions in our planning. There are major activities afoot around electronic standardization in the mobility industry; therefore there are plenty of opportunities to become involved or better yet to lead the way. At the

September 25th Section Board Meeting, the Governing Board confirmed the objectives for the coming year. They are as follows:

1. Make the fullest use of the electronic media for section communications. (The section needs to make a significant dent in printing and postage expenses. Approximately \$7400 was spent on printing & postage last fiscal year.)
2. Establish ten (10) new AWIM (A World In Motion) partnerships within the section.
3. Generate \$1500 in extra funding, earmarked for special speaker expenses.

I would ask each of you to give some thought how we might realize these objectives. If you have some ideas 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. Jim Bolinger was our meeting's chair for the Fall Meeting held in Ames, Iowa. Jim and Max Gassman teamed up to organize and implement a joint meeting of the MVS SAE and the ASME. The meeting was held Thursday evening, September 27th on the campus of Iowa State

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YOUR GOVERNING BOARD	
Chairman	Dan Cowley, (309) 765-5072
Vice Chairman	Open
Treasurer	Justin Sample (515) 264-1650
Secretary	Open
Past Chair	John Byers (309) 793-1144
Recognition	Jim Schmidt (319) 285-1043
Meeting Chairs	
Ames (Fall)	Co-Chairs Lee Randall, Greg Luecke & Max Gassman
Waterloo (Late Fall)	Meeting Chair Stephen Hart
Quad Cities (Winter)	Jennifer Binzley
IC/Dubuque(Spring)	Steve Whiteman
Cedar Rapids (AMC)	Edwin Eisele
Student Activities/Scholarships	Greg Luecke (515) 294-5916
Continuing Education	Max Gassman (515) 294-4587
Planning	Open
Membership	Steve Whiteman (319) 589-6670
Math & Science K-12	Paul Exstrom (319) 582-7173
Company Reps.	Matt Oliver (319) 292-8219
Financial Audit Committee	Justin Sample (515) 264-1650
National Delegate	Jim Bolinger (515) 239-6275
Section Relations Bd.	John Casker (742) 772-7135
Field Services Rep	Kevin Mahler (724) 776-4084
Newsletter	Stephen Hart (319) 292-9738

MISSISSIPPI MINUTES

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c/o Jeremie Peterson
P.O. Box 8000
Waterloo, IA 50704

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WANTED

Newsletter articles - if you have any material you would like to submit, please email or US mail to me, your *NEW* newsletter chair:

Steve Hart
HartStephenJ@JohnDeere.com
John Deere PEC, 82K
PO Box 8000
Waterloo, IA 50704-8000
Phone 319-292-8738
FAX 319-292-8028

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University. Six (6) university labs were open for tour on campus. There was also a display of the SAE student built Baja and Formula cars. Professor Charles Mischke presented a technical seminar on "Avoiding Psychological Set in Design". The main speaker of the evening was Professor Ted Okiishi. He discussed the Technology for Iowa's Future. There are several agencies working together to forge more industry that will retain knowledge workers in the State of Iowa. But there is still room for new ideas and a need to work with government officials to better address the migration of knowledge workers from the state upon graduation from college. There were a total of six (6) SAE students and seven (7) SAE members in attendance at the meeting. I would like to thank both Jim and Max for making all the arrangements for this successful event.

Through unfortunate circumstances, "volunteering" is again becoming a more familiar term in American vocabulary. Within the MVS of SAE, members are keenly aware there is no one else who can serve the section than the assistance given by local volunteers. Perhaps you are looking for opportunities to serve the MVS membership and don't know who to contact or what openings there are. Let me recap some of the areas we are looking for assistance and whom to contact:

- If you know someone in your company who would like to sponsor the social time at one of your section meetings. The sponsorship amount is \$50 and is used for the hors d'oeuvres at the social, not for alcohol, so they are not exposing themselves to any liability. In return for the sponsorship, we post a thank you sign for the sponsors at the social, thank them from the podium at the meeting, post their names on the registration website, and post their names in the meeting flyer that is sent to all the membership of all 4 societies. They receive 4 separate pieces of advertising to a targeted audience of engineers for only \$50, so we think it is a bargain. Please contact Steve Hart (HartStephenJ@JohnDeere.com).

- There are currently several openings on the board. If you are interested in serving the section as a board member, please contact Jim Sheets (jsheets@sauer-danfoss.com) or Jim Houch (JLHRPCPE@aol.com).
- A Spring 2002 Dubuque local meeting's chair and those who can assist with meeting arrangements are needed. Please contact Tony Ferraro (tony.ferraro@lord.com).
- Ten (10) new volunteers to work with local AWIM partnerships are needed. The program requires an engineer team up with a local educator to provide some support or assistance with hands-on projects for students starting in the 4th grade. SAE has refined the curriculum to make it more fun and possible to introduce young people to the possibilities within the field of engineering. Contact Paul Exstrom (exstrompaul@mwci.net).
- The Section Relations Division of the SAE International has recently announced the Future Technology Input Program ('Future TIP'). This is a brand new partnership program with an affiliate organization, the Service Technician Society (STS). With so much new going on in the electronics arena, there is undoubtedly some common interest in this topic within the service industry. We are looking for someone who would be willing to champion the effort by raising awareness and contributions from the both mobility equipment manufacturers and the service industry to sponsor the appropriate speakers for joint meetings with local section of STS. If you would be interested in helping, we would welcome your participation in this groundbreaking endeavor. Please contact Dan Cowley (CowleyDaniel@JohnDeere.com).

I will do my best to keep you updated in future newsletters!

Dan Cowley
2001-2002 Chairperson

A World In Motion at St Patrick School

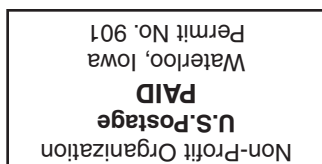
For the fifth year now, a number of volunteer instructors from John Deere will be spending some of their time working with the Faculty at St Patrick School in Cedar Falls, Iowa instructing the A World In Motion (WIM II) program. For many of these instructors it'll be their fifth year and WIM II is something that they very much look forward to. The program, developed by the SAE Foundation and the National Science Foundation, does an outstanding job of integrating students daily course work with volunteer instructors practical experience and provides the students tremendous positive motivation. It provides St Pat's students with insight to the roll academic staples such as Science, Mathematics and Language Arts play in everyday affairs. In addition to students learning individual skills, many learned to improve team performance by recognizing and capitalizing on other team members' strengths and by appropriate task assignment and delegation and simultaneous performance of assigned tasks.

WIM II also fits St Pat's 7th and 8th grade curriculum like a glove; class sizes and meeting times mesh very well with the WIM II instruction plan. Faculty and students (and parents) all appreciate how truly advanced this program is and recognize that many students in other schools may well never experience such a well integrated, rigorous program. In fact, the program has become somewhat of a right of passage at St Pat's with students asking about the program from the start of the school year.

Any doubts about the program, the volunteer instructors or student reception quickly vanished the very first year. Simply witnessing the young people in our program discovering that they are capable of doing things that they would've otherwise not thought possible makes the whole program worthwhile. Periodically the volunteer instructors and Faculty meet to discuss the program and potential improvements and, as a result, the St Pat's program improves a little every year.

I truly enjoy my role in the WIM II program, as do all of the other volunteers, and we're all looking forward to presenting an even better WIM II program again in the 2001-2002 school year. SAE has certainly earned our respect and appreciation for producing such a fine program.

John Demmer
(319) 266-2800




 The Engineering Society
 For Advancing Mobility
 Land Sea Air and Space®
 MISSISSIPPI VALLEY SECTION
 1103 Barnett Drive
 Cedar Falls, IA 50613-6626

Fall Combined Engineering Society Meeting

Theme: “Emerging Technologies in the Mobility Industry”

Participants: ASAE, SME, ASME, and SAE

Date: Thursday, November 8, 2001

Location: Cedar Falls Holiday Inn.

Costs:

\$18/member

\$20/non-member

\$6/student.

Schedule:

Registration begins at 4:00

Technical sessions at 5:00

Social at 6:00

Dinner at 6:45

Main speaker at 7:30

Business at 8:30

Adjournment at 9:00

Technical Session Presenters:

Gene Hunck

Hydraulic Engineer

UNI-ABIL Research, Waverly

“Cutting And Tapping Fluids Derived From Soy Bean”

Jon VanGerpen, PhD

Associate Professor, Mechanical Engineering

Iowa State University, Ames

“Bio-diesel As An Alternative Fuel”

Dennis A. Bowman

Senior Staff Engineer

John Deere PEC, Waterloo

“Ag Tractor Suspension System Review”

Mark Harrison

Sales Consultant

Community Motors, Waterloo

“Honda Insight Gas/Electric Hybrid Vehicle”

Meal Menu:

A buffet comprised of:

Salad bar

Dinner rolls and butter

Parsley potatoes

Roast beef

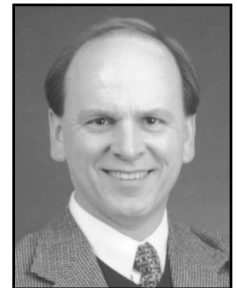
Ham

Green beans w/almonds

Cheese cake w/cherries

Coffee and tea

Main Speaker: John Reid, PhD
John F. Reid is Manager, Technology Development at the John Deere Technology Center-Moline. Prior to coming to Deere & Company in 2001, he was a Professor and Section Leader of Off-road Equipment Engineering in the Agricultural Engineering Department at the University of Illinois. Reid’s research for the last 18 years has focused on the application of vehicle automation for off-road equipment.



Title: “Automated and Autonomous Systems for Off-road Equipment”.

Abstract: Many of the technological barriers for automation of agricultural production system have been eliminated by advancements in sensors, computers, and vehicle systems. Still a number of developments are required to assure safety, simplicity of operation, and affordable cost. The progress of automation is affected by the ability of technology to enhance productivity, quality of life, or other factors linked to societal benefit. Drawing on examples from recent experiences in vehicle navigation, this presentation will review the status of a automation technology as related to its implementation into agricultural production.

Registration: Online at

<http://chapters.sme.org/186/nov01/register.stm>

* Note that the registrants will be able to select which tech session they wish to attend when they register.

**The vehicle will also be available
for viewing during the social period.**





SAE on the World Wide Web

Society of Automotive Engineers web page is at:	http://www.sae.org
Mississippi Valley Section web page is at:	http://www.saesections.org/mvs/
The Iowa State University web page is at:	http://www.public.iastate.edu/~isusae
The University of Iowa web page is at:	http://www.icaen.uiowa.edu/~uisae/
The University of Wisconsin-Platteville web page is at:	http://www.uwplatt.edu/~sae/

DO YOU KNOW YOUR COMPANY REP?

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 3 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 515-239-6618
 e-mail: jsheets@sauer.com

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

Larry Adams.....309-765-7482
 Fax 309-765-7379
 e-mail: he00316@deere.com

J. I. Case - Burlington

Roger Mickelson.....319-754-3266
 Fax 319-754-3105
 e-mail: rmickelson@casecorp.com

Koehring Cranes & Mark Ind. - Waverly

Lee Linderkamp.....319-352-9364
 Fax 319-352-5727
 e-mail: none

John Deere Tech Center - Moline

Jeff Giordano.....309-765-3890
 Fax 309-765-3807
 e-mail: jg29005@deere.com

John Deere IE PEC - Dubuque

Steve Whiteman.....319-589-6670
 Fax 319-589-5464
 e-mail: WhitemanSteve@dubuque.deere.com

John Deere DSM Wks - Des Moines

Jeff Postal.....515-289-3153
 Fax 515-289-3178
 e-mail: PostalJeff@JohnDeere.com

John Deere PEC - Waterloo

Matt Oliver.....319-292-8219
 Fax 319-292-8462
 e-mail: OliverMatthewR@JohnDeere.com

Case Corp - Davenport

James Schmidt.....319-285-1043
 Fax 319-285-1197
 e-mail: jschmidt@casecorp.com

Rockwell Collins Inc - Cedar Rapids

Charles Miksch.....319-295-8232
 Fax 319-295-7260
 e-mail: clmiks@collins.rockwell.com

Deere & Co. -Engg. Stds. - Moline

James Miller.....309-765-4918
 Fax 309-765-9860
 e-mail: jm46584@deere.com

Tri/Mark Corp. - New Hampton

Marvin Larsen.....515-394-3188
 Fax 515-394-2392
 e-mail: Marvin.Larsen@trimarkhardware.com

John Deere Harvester-Prod. Dev. - E. Moline

Gene Beckman.....309-748-6705
 e-mail: ag05179@deere.com

Winnebago Industries - Forest City

Steve Futrell.....515-582-3535
 Fax 515-582-6714
 e-mail: futrell@netins.net

Iowa State University - Ames

Greg Luecke.....515-294-5916
 Fax 515-294-3261
 e-mail: grluecke@iastate.edu

Deere Tech Services - Moline

Kevin Kebler.....309-765-4148
 Fax 309-765-5769
 e-mail: ty37417@deere.com

Vermeer Mfg. - Pella

Shane Bollinger.....515-621-7926
 Fax 515-628-7739
 e-mail: sbollinger@vermeerimg.com

University of Iowa - Iowa City (TBD)

McLaughlin Body Co - Moline

Bill Johnson.....309-762-7755 ext 6028
 Fax 309-762-2823
 e-mail: bjohnson@mclbody.com

Parr Mfg. - Des Moines

Bill Luther.....515-285-8681 ext 40
 Fax 515-287-6800
 e-mail: bill_luther@parrmfg.com