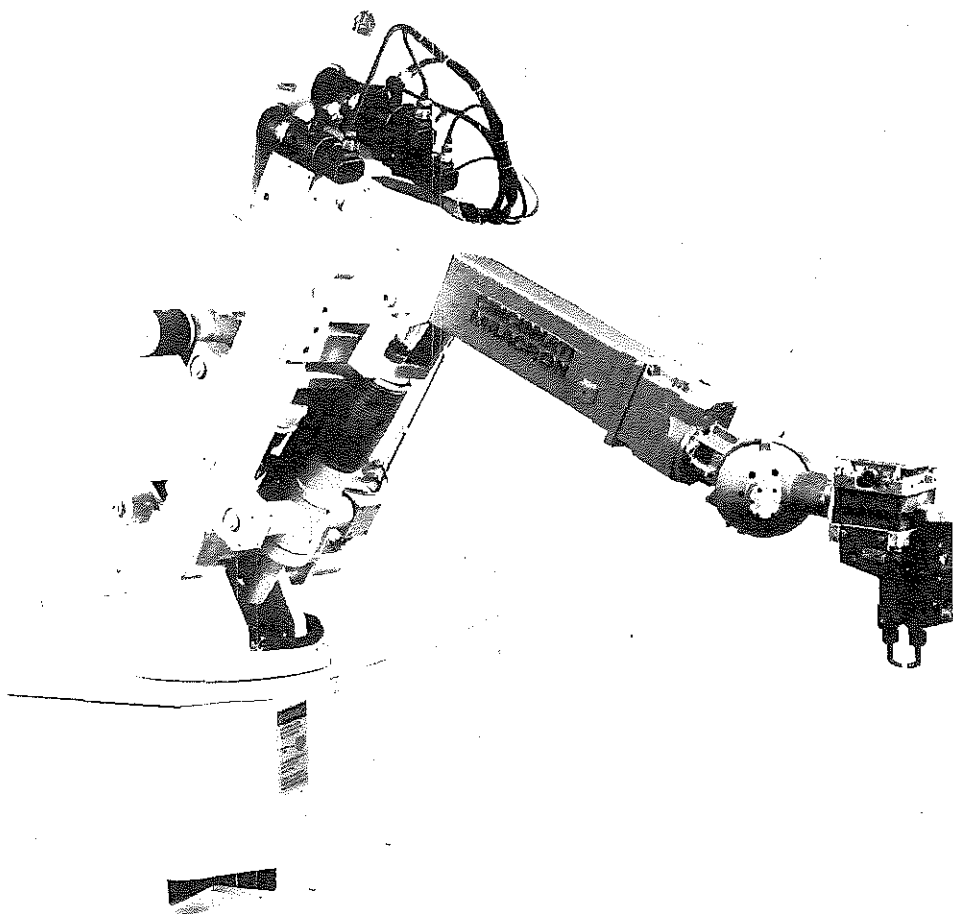


# **SAE** CHICAGO **NEWS** SECTION

VOL. 53

NO. 2

FEBRUARY, 1985



**ROBOTICS IN GENERAL MOTORS  
A LOOK AT THE FUTURE**



# CHICAGO SECTION

# NEWS

Published by CHICAGO SECTION, SOCIETY OF AUTOMOTIVE ENGINEERS

Address all Correspondence to S.A.E. Chicago Section office.

330 E. Roosevelt Road, Lombard, Ill. 60148

PHONE: (312) 629-6363

## EDITORIAL BOARD

R. F. Mayer ..... Editor

## ADVERTISING

Frank Egberts

## Photographer

A. E. Kluge

**VOL. 53**

**FEBRUARY, 1985**

**NO. 2**

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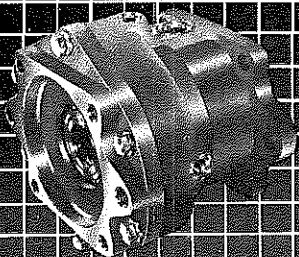
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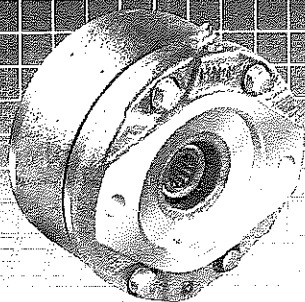
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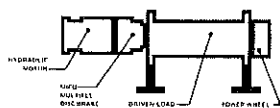
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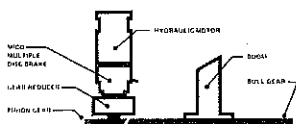
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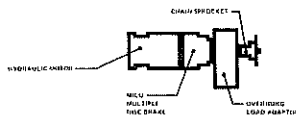
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## **SAE ACTIVITIES**

### **CHICAGO SECTION—OCTOBER 9, 1984**



**Dr. Gordon Millar**, SAE National President, addresses the Chicago Section and brings them up-to-date on the progress and advancements that SAE is making on the national and international level.



**Tom Kowaleski**, Renault/Jeep Sport, talks about the exciting world of sports club racing.

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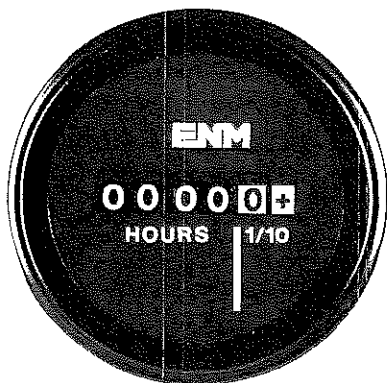
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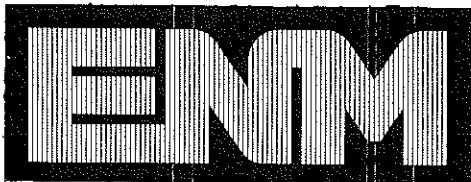
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**SPEAKER**



**ROBERT F. WELCH**

**CHAIRMAN**



**WILLIAM FARRELL**

**ROBOTICS IN GENERAL**  
**A LOOK AT THE FU**  
**BY**  
**ROBERT F. WELCH**

General Motors effort to be in the change and to effectively compete o  
ket will be discussed. GM products  
down sized using new materials for lig  
power plants for more efficient gasolin  
ments in manufacturing technology  
automatic systems such as inspectio  
will be covered as well as how basic  
these new concepts.

**ROBERT F. WELCH**, Chicago Fish  
Engineer, joined the division in Octo  
to Chicago as Supervisor of Tool and  
of 1954. Mr. Welch attended school  
Applied Science. He spent two years  
U.S. Navy during World War II in th  
of war.

**WILLIAM FARRELL** is a Sales Eng  
hide Manufacturing Company, OE D  
degree from Illinois State University

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**SAE -CHICAGO SECTION**

**Saturday, March 23, 1985**

**LADIES NIGHT**

**AT**

# **Marriott's<sup>®</sup> Lincolnshire Resort**



**COCKTAILS – 6:00 P.M.**

**DINNER – 7: 30 P.M.**

**THEATRE – 9:30 P.M.**

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AND JOY ALL COME TOGETHER IN  
“JOSEPH”**

**SAE -CHICAGO SECTION**  
**Saturday, March 23, 1985**  
**LADIES NITE**  
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**RESERVATION REQUIREMENTS**

Limited accommodations require the following procedure:

- (1) Advance ticket purchase.
- (2) Reservations by mail or phone on first come, first served basis. **Check must accompany reservation. NO refunds.**
- (3) Self-addressed, stamped envelope must be included in ticket application.
- (4) Ticket application must be mailed to:

**RICHARD W. PELC**  
**International Harvester**  
**600 Woodfield Drive**  
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**Phone: (312) 884-3520**

Fill out form below for mailing application. Tear out entire sheet and mail to above address.

- (5) Cash bar.
- (6) Price: \$40.00 per ticket.
- (7) **Reservations must be received by February 27, 1985.**

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CITY & STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_



**CTION**

**Y 12, 1985**

**. MOTORS  
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on active duty with the  
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neer for Chicago Raw-  
vision. He holds a MS

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**AND**

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**"ATTITUDE ADJUSTMENT HOUR"**

**6:00 P.M. Dinner**

**7:00 P.M. Technical Session**

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**TICKET PRICES**

Members	\$11.00 each
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Students	\$ 6.00 each

**Dinner Reservations Required**

**Single Table Reservations Restricted to 8 people.**

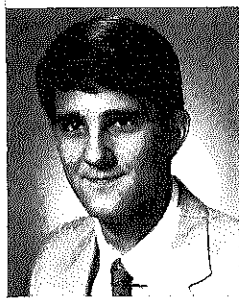
**Contact your plant representative**

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(312) 629-6363**

**FOX VALLEY DIVISION**  
**SAE Chicago Section**  
**TUESDAY, FEBRUARY 19, 1985**

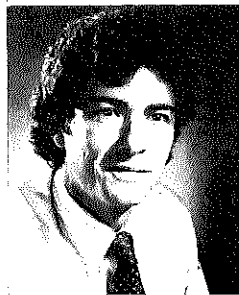
**Amoco Research Center**  
**For Location:**  
**See map on opposite page**

**SPEAKER**



**GERALD K. SCHMIDT**

**CHAIRMAN**



**SAM D. VALLAS**

**ACCELERATING THE PHASEDOWN OF  
LEAD IN GASOLINE**

**BY**  
**GERALD K. SCHMIDT**

In August of 1984 the Environmental Protection Agency issued a regulatory proposal that would reduce the permitted level of lead in gasoline from the present 1.1 grams per gallon to 0.1 by January 1, 1986, a 90% reduction. Can the Petroleum Industry meet EPA's deadline? What will be the impact on the refining and marketing segments? What options for lead replacement are available to refiners?

**GERALD K. SCHMIDT** is a Research Engineer involved in gasoline blending and fuel additive testing at Amoco Oil Co. Gerald is coauthor of a recently published SAE Paper entitled "Modern Refining for Today's Fuels and Lubricants." He holds a BSME degree from Iowa State University.

**SAM D. VALLAS** has been a research technician in the Automotive Laboratory at Amoco for over seven years. His responsibilities include vehicle testing and facility maintenance in the Amoco "All Weather Chassis Dynamometer" complex, and he has participated in field studies for marketing and advertising. He came to Amoco from Sun Electric Corp. where he sold, serviced, and conducted training sessions on engine diagnostic equipment.

**5:30 P.M. Social Half Hour**  
**6:00 P.M. Dinner**  
**7:00 P.M. Tech. Session**

**Meeting Sponsors**

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**Amoco Petroleum Additives Co.**

**For reservations contact your  
SAE Plant Representative**

**or**

**Mrs. Jo Ann Hill**  
**(312) 859-5116**  
**Give Name and Company**

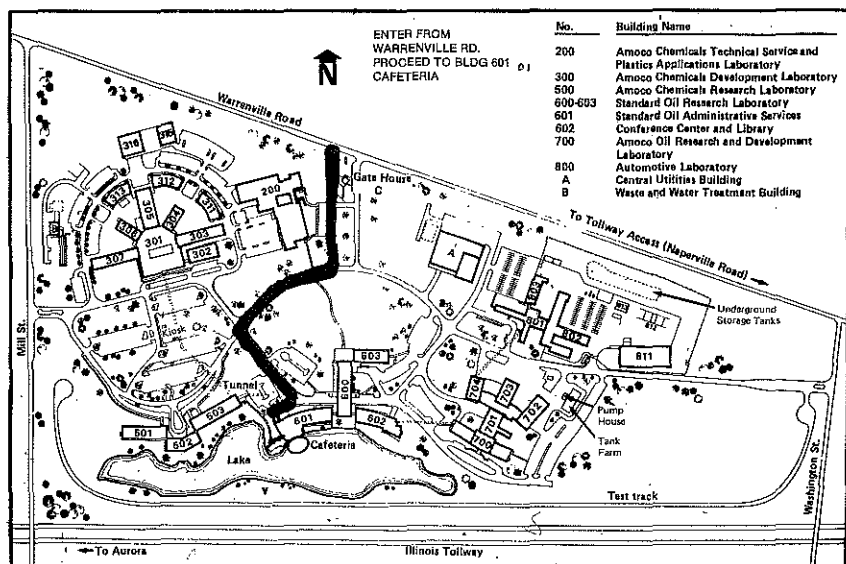
**DEADLINE: February 14, 1985**

**MEAL PRICE**

**\$11.00 MEMBERS**  
**\$13.00 NON-MEMBERS**  
**\$ 6.00 STUDENTS WITH SCHOOL I.D.**

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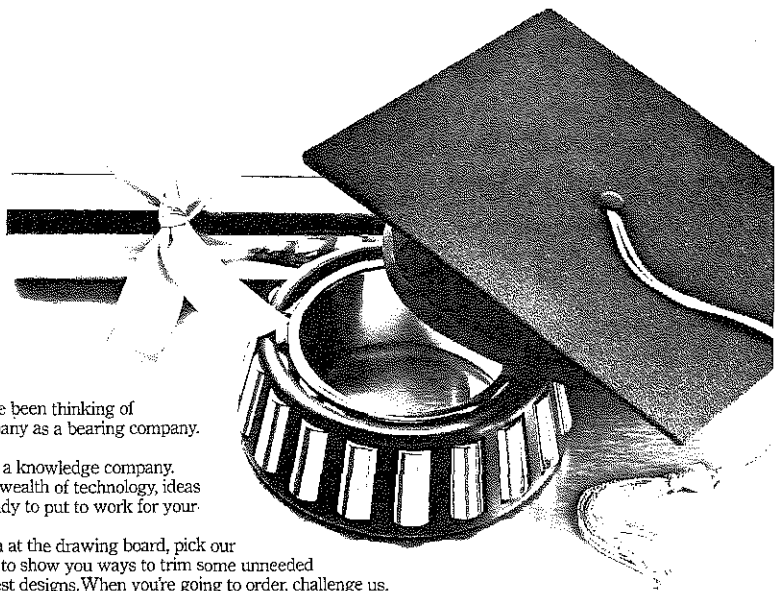
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## CHICAGO AUTO SHOW

Don't miss "the World's Greatest!"

Pontiac's all-new GRAND AM for 1985 will be featured in their display at the 77th Annual Chicago Auto Show. This high-styled, sophisticated, five-passenger sporty coupe is right in tune with the expanding new car market.

Chicago Auto Show officials report that the upcoming show opening Saturday, February 9th at McCormick Place has all the indications of being one of the most exciting ever.

Members of the S.A.E. Chicago Section each receive two show tickets (enclosed with this issue of the "News") courtesy of the Chicago Automobile Trade Association, provided we receive complimentary tickets prior to mailing. Otherwise, pick up your tickets at S.A.E. office.

## **SAE ACTIVITIES**

### **FOX VALLEY DIVISION—OCTOBER 17, 1984**



**Bill Lindsey**, Chairman, Fox Valley Division, opens the meeting and welcomes the group to the first meeting opening the 1984-1985 season.



**Hiroshi Yano**, Tech Chairman presides at the meeting, and welcomes **Doran K. Samples** who described the engineering design and development of Chrysler's Laser and Dodge Daytona automobiles.

# SAE — Chicago Section

## 1984-1985 Meeting Dates

Date	Group	Subject
<b>1984</b>		
10-9	Chicago	SA Student Activities—AMC Racing (Jeeps/Renaults)
10-17	Fox Valley	Chrysler Laser Car
10-23	Michiana	Robots
<hr/>		
11-8	Fox Valley	Experimental Stress Analysis in the '80's . . . and beyond
11-13	Chicago	Mack Truck—16.4 Litre V-8 Engine
11-27	Michiana	Ford Aerostar
<hr/>		
12-6	Fox Valley	Caterpillar 3500 Series Engine
12-11	Chicago	Fisher Body Plant Tour; Meeting at Willowbrook
<hr/>		
<b>1985</b>		
1-8	Chicago	Mini-Seminar on Bearings
<hr/>		
2-12	Chicago	Robotics at General Motors; A Look at the Future
2-19	Fox Valley	Phasedown of Lead in Gasoline
<hr/>		
3-12	Chicago	Engine Oil Classification System
3-19	Fox Valley	Caterpillar 936 Wheel Loader
3-26	Michiana	Miles Laboratory
<hr/>		
4-9	Chicago	Advanced Technology, Plastic Engine
4-23	Fox Valley	International 6.9 Litre Engine
4-23	Michiana	Ethanol Plant
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5-14	Chicago	Transportation Equipment

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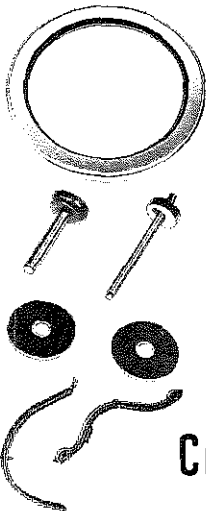
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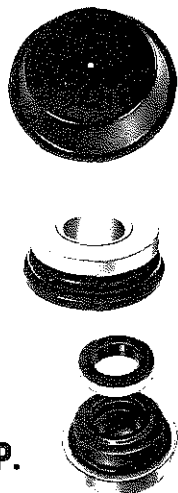
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