May 10, 1994 Tour & Meeting at AMOCO
AMOCO Clean Fuels
Government Regulations
Summer Safety

Michiana Division Tour of
Allied Signal Proving Grounds on
Dinner meeting at Heston’s Bar
With this issue of the News, another section year is drawing to a close. I'm pleased to have served as chairman of the Chicago Section this year. It's been a very rewarding experience for me, and I've enjoyed working with the governing board and section members. Thanks to all our section officers, we've had a year of excellent technical programs and good fellowship. I appreciate everyone's hard work and dedication, and I look forward to another year of SAE activities.

The slate of nominees for the 1994-95 governing board is listed in this issue. Anyone who wishes to become more active in the section may attend the monthly board meetings or contact a board member and let them know of your interest. There is plenty of opportunity to be involved.

The last annual event of this section year is the Junior Solar Sprint, scheduled to take place the morning of Saturday, May 7, at JI Case in Hinsdale. This solar car competition for junior high school students in the Chicagoland area is sponsored by Argonne National Lab and SAE. It's exciting to see all the enthusiasm of these young people and a fun way to spend a Saturday morning. Volunteers to help as judges are always appreciated. For more information, contact Brian Gutkowski at JI Case, (708) 887-2071.

Clean Fuels is the topic for our final technical meeting of this season on Tuesday, May 10. This meeting will be held at the Amoco Research Center, Naperville, and will be preceded by a tour of the facility. See the center pages for details. I look forward to seeing all of you at our last meeting of the season!
Chicago Section members participated in the 10th annual DuPage Engineers Week at IIT Rice Campus Open House for schools, teachers and parents.

Section members Ray Heller, Margaret Bain and Rodica Baranescu.

Appointed Standing Committee Chairs who are busy weeks before each month’s meeting nine months a season:

- **Advertising**
  - Jack Shultz

- **Meetings/Programs**
  - Dave Morris

- **Magazine Editor**
  - Charles Cervenka

- **Arrangements**
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ATTENTION GOLFERS

The annual SAE PLAY DAY will again be held at St. Andrews on Thursday, September 8, 1994. Ticket price will remain the same as last year. The number of players will be limited to 350. To avoid being left out reply as soon as you receive the detailed flyer in July.

The Shock and Vibration Digest is intended for the Vibration Engineer. It contains abstracts concerning vibration of machines and structures from over 150 journals, technical magazines, proceedings, and reports. Online data base searches are included at no extra cost.

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SEASON 1994-1995

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MATH & SCIENCES /K-12
RAYMOND E. HELLER
CONSULTANT

FOR MEMBERSHIP
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STUDENT ACTIVITIES
CARSON L. EDDY
AETNA BEARING COMPANY

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NATIONAL NOMINATING COMMITTEE
JAMES P. KING
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SEASON 1994-1995
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WILLIAM F. LINDSEY
ROBERT J. HAWKEN
Due to concerns with the U.S. dependence on foreign oil and with air pollution from vehicle exhaust, increased attention is being focused on alternative transportation fuels which have some potential to help, but not solve either concern. Thus, both the vehicle and fuel manufacturers are challenged to better understand the advantages and disadvantages of each fuel so government leaders can make good choices of how to encourage their expanded use. Unfortunately, recent trends in our government have been to take the simpler road and just mandate alternative fuel use without careful consideration of their merits. In the long run, government mandates are likely to do more harm than good for alternative fuels. Dr. Bush's presentation will provide one perspective on the more promising future transportation fuels with comments on the government role for expanding their use.

Dr. Bush is responsible for developing business plans for Amoco Oil. Recent work has involved studies of automotive fuels and how they affect vehicle emissions, plus energy and environmental regulations that affect the industry. He actively participates in industry technical committees of the American Petroleum Institute.

COFFEE TALK

by

TRAFFIC OFFICER

Officer McQueen is a sixteen-year veteran of the Naperville Police Department. He is a State Certified Accident Reconstruction Specialist and was one of the first two hundred officers nationwide to be recognized.

TECH CHAIRMAN
(API), the Society of Automotive Engineers (SAE), and the Coordinating Research Council (CRC). A native of Buffalo, New York, Dr. Bush holds chemistry degrees from the College of Emporia, Kansas (B.S.) and Oklahoma State University (Ph.D.).

THOMAS McQUEEN

in this field.

The topics for discussion will include Accident Reconstruction, the Chad Program, Buckle-up Baby, and new laws that will affect mobility engineering today and in the future.

Les Asher

TOUR • DINNER • MEETING
AMOCO RESEARCH CENTER
801 BUILDING
TIME: 4:15 P.M. AT AMOCO
TOUR ONE HOUR
LIMIT: 100 PEOPLE
Directions: I-88 West to Naperville Road
North 1 Block to Warrenville Road
West 1 Mile to Amoco Gate on
Warrenville Road at Stoplight.

5:30 P.M. Social Period
6:00 P.M. Dinner
7:00 P.M. Meeting

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Please make reservations by Friday, May 6, 1994

For Reservations and Information contact Section Office
(708)663-0010
**Amoco Oil company Research and Development**

Amoco Oil R&D efforts focus on developing new and improved products and processes including alternative sources for energy. In our relatively flat organization with just two levels of management between the Engineer/Scientist and the Vice President of research, each individual knows where the company is headed, as well as his or her role in getting there. We encourage mobility among our staff, and many Amoco Oil R&D alumni have advanced to senior management, including the CEO of Amoco Corporation.

The Facilities and Resources of Amoco Oil R&D feature the most-advanced technology. Extensive state-of-the-art laboratory facilities are used for conducting bench, engine, and vehicle tests of Amoco products. Our Innovation Laboratory provides the funds and facilities to test ideas that are not part of the mainstream research program. A high ratio of skilled technicians to engineers/scientists enables researchers to best utilize their planning, technical, and management skills.

Amoco is deeply committed to the environment, as evidenced by the growth of our Environmental Research group. R&D efforts have led to the introduction of the most comprehensive set of environmental alternatives ever offered by one company in a single market:

1) Reduced emissions gasolines.
2) A proprietary vapor recovery nozzle.
3) Used oil collection facilities.
4) Compressed Natural Gas alternative fuel for vehicles.

In a first-of-a-kind project we have joined forces with the EPA to define pollution-prevention opportunities at Amoco Oil's Yorktown Refinery. On the safety front, AOC R&D passed the three million man-hour mark without one lost workday injury.

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SAE MICHIANA DIVISION
TUESDAY, MAY 17, 1994
ALLIED SIGNAL PROVING GROUNDS TOUR
ANTI-LOCK BRAKING SYSTEMS (ABS)
HOW IT WORKS AND FUTURE CHANGES
by
MICHAEL GATT

Michael Gatt is a Director of Engineering with Allied Signal Incorporated in their adaptive braking and control systems. Mike has a B.S. degree in Mechanical Engineering from the University of Michigan and a Masters Degree in Business Administration from Indiana University. He has been with Allied Signal for 21 years and is currently in charge of the design and development of the anti-lock braking systems (ABS). This also includes the traction control systems in passenger cars, light trucks and material handling equipment.

Tech Chairman Rick Stran is a sales engineer with Allied Signal Automotive at their Proving Grounds Division. He has been with Allied Signal for 3-1/2 years. Rick was a brake systems test and development engineer with American Motors and Bendix Corporation for 6 years, prior to his current position.

Rick has completed a B.S. degree in mechanical engineering from Marquette University. He will be the representative of the Allied Signal Proving Grounds tour and Vehicle Dynamics Testing Facility.
HESTON BAR RESTAURANT
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SEE MAP ON THE NEXT PAGE

5:00 to 6:30 P.M. - ALLIED SIGNAL PROVING GROUNDS TOUR

6:30 to 7:00 P.M. - Travel from Proving Grounds to Restaurant

CASH BAR SOCIAL HALF HOUR

7:00 to 8:00 P.M. - DINNER

7:45 P.M. - ENGINEERING MEETING

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