HAPPY NEW YEAR! I hope all of you have enjoyed the Holidays and had a chance to recharge for the coming year's activities. This is always an exciting time of year -- a chance for us to make new beginnings or fine tune the way we approach life. It's a chance to think about our personal goals and how we go about reaching them.

SAE offers many ways to further our technical and management careers. If you have thought about becoming more involved in SAE, this is an excellent time for you to resolve to become more active in the Chicago Section. A nominating committee is being formed to put together the 1994-95 Governing Board slate of officers. If you're interested in being a part of the board, please contact any member of the Executive Committee and let them know about your interest right away. There are many diverse opportunities for involvement and personal development within our Section.

We'll begin the new year on Tuesday, Jan. 11, with a presentation on the new Caterpillar 990 Wheel Loader. We welcome members of the SAE Rockford Section who will join us for this meeting.

Please help us to plan better for our dinner meetings by making sure someone has called in your reservation. This will save us the last-minute flurry of setting up extra tables.

The meeting topic for Feb. 8 has changed. We will have a presentation on the Cadillac Northstar V8 system. We look forward to seeing all of you there.

Chuck Cornell
Chicago Section Chairman
Dear Reader,

To make the Chicago Section News more interesting and more informative requires input from the membership. We have about 2,500 members in our Section but very little input from our members. We need your ideas, suggestions, and comments—favorable or otherwise. I am sure you and your colleagues have someone in your group who deserves recognition for accomplishments. Maybe you would like to share a new technique or newly developed product. You may have a picture of someone or a group picture of a celebration or outing that you would like to have in the Section News.

All you have to do is send the material to our secretarial office,

SAE Chicago Section
2460 Wisconsin Avenue
Downers Grove, IL 60515
to the attention of Charles Cervenka.

When submitting material for publication, remember it must be received no later than six weeks prior to the meeting date. Our meetings are generally the second Tuesday of the month.
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August H. "Jake" Bertram

passed away on October 7, 1993.

Almost everyone who knew Mr. Bertram addressed him as "Jake". Those of us who have been involved in SAE for many years remember Jake's involvement in the Chicago Section's Fox Valley Division and then the Chicago Section Governing Board. He became chairman of the Division and then of the Chicago Section.

It has been said many times "if you want something done, give it to a busy person". Jake was that kind of person. This was best illustrated in part of Jake's obituary, which reads as follows:

Mr. Bertram was born in Parkston, SD. He was retired from Caterpillar as general supervising engineer; member of Woodland Chapel Presbyterian Church (also deacon, elder and skipper of Mariners Club); Society of Automotive Engineers and Illinois Society of Professional Engineers; Decatur Audubon Society; 30-year member of Boy Scouts of America; leader of Cubs, Scouts and Explorers; attended National Jamboree; awarded National Silver Beaver Award; received District Award for KE-DE-KA District of Aurora, and Vigil Order of the Arrow; past president of Macon County Historical Society; three year show chairman of Central Illinois Gem and Mineral Club; worked on set construction for Theatre 7; U.S. Navy Veteran of WWII. The loss is great not only to the surviving family but also to the many organizations to which he devoted much of his time during his life.
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An important part of a complete engineering education is having an opportunity to see first hand how all of that classroom knowledge is put into practice out there in the "real world". One good way to do this is by occasionally visiting manufacturing plants to see real products being made for real customers.

Several of our SAE Chicago Section Student Branches have expressed great interest in touring area manufacturing facilities to augment their on-campus activities. There must be many companies in the Chicago area which would be willing to receive a group of students once in a while. However, the Student Branches have had difficulty in setting up such visits because of a lack of contacts.

To solve this problem, the Chicago Section would like to generate a list of contact persons for potential plant tours by groups of students. This list would then be circulated to the eight Student Branches and Clubs. If you or one of your colleagues would be willing and able to host an occasional student visit, we would like to know who you are.

Please contact:

Carson Eddy,
Vice Chairman - Student Activities
phone 312-227-2410
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THE 990 WHEEL LOADER; TRADITION MEETS TECHNOLOGY
by
Kevin W. Ingall

Caterpillar Inc. has recently introduced the 990 wheel loader. This machine is designed and built for high production in the Quarry Industry. The 990 incorporates the tradition of Caterpillar wheel loaders with advanced technology to increase productivity through machine and operator efficiency. The 990 tradition is based upon proven 992 components such as the 3412 DITA Diesel engine and the 21" planetary transmission. This tradition, combined with the latest wheel loader technology of the impeller clutch torque converter, axle shaft brakes, and a state of the art operator's station provide the lowest cost per ton loader in the 10-11 cubic yard size class.

The 990 is part of a "total" mining system. The machine takes three and four passes to load the 50-ton CAT 773 and the 65-ton CAT 775 trucks, respectively. The 990 is also an excellent match for a crusher with the capacity of 900-1300 tons per hour.

Combining Tradition and Technology to meet and exceed customer requirements is the 990 wheel loader.

Kevin W. Ingall is a Marketing Representative, Large Wheel Loaders, Caterpillar Inc. He began his career at Caterpillar in 1986 as a design engineer. His background includes two years at General Electric as an engineer. Mr. Ingall holds a BS degree from the University of Missouri, College of Engineering, and an MBA degree from the University of Michigan, College of Business Administration.
previous work experience at General Motors as a project engineer.
He holds a BSME from Purdue and an MBA from Northern Illinois University.

**TALK:**
**PRESIDENTS**
by Gene Bender

Gene Bender is a Marketing Representative, Large Wheel Loaders, Caterpillar Inc. He joined Caterpillar in 1987 as a co-op engineer. Mr. Bender graduated from the University of Missouri-Rolla with a BS in Engineering.

**CHAIRPERSON**
Linda M. Gogola is a Design Engineer, Large Wheel Loaders, Caterpillar Inc. She graduated from the University of Illinois at Champaign with a BS in General Engineering.

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September meeting Tech Chairman Bob Larsen presenting Dr. Alan R. Dohner, President, DAI Technologies, Inc., with a plaque for being one of the meeting sponsors.

Chuck Cornell, the Chicago Section 1993-1994 Chairman, welcomes members, students and guests at the well attended September meeting.
Three of the over 200 students who were involved in design and construction of the Uofl entry in the 1993 Hybrid Electric Vehicle. They did an excellent job in the talk presentation and question and answer session.

Chicago Section Student Activity Vice Chairman Carson Eddy presenting Dr. Francisco Ruiz with a plaque. He is accompanied by two IIT students who presented their design approach to convert a Saturn vehicle to a HEV.
The University of Illinois-Urbana HEV Challenge Vehicle, “The Chief.”
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