

NEWSLETTER

Department of Metallurgy and Mining Engineering

University of Illinois at Urbana-Champaign

January 1983

ALUMNI MEET IN ST. LOUIS

Seventy alumni, from Clyde Smith '33 to members of the class of '83, enjoyed a social reception in St. Louis last October during the joint ASM-AIME Fall meetings.

Three alumni received distinguished merit awards for professional success and service to the department: Dick Van Pelt '43, Richard Gaydos '57, and George Sinclair '48. These awards were instituted this year by the M & M Alumni Association. Van Pelt is manager of metallurgical research at Caterpillar, Gaydos is manager of metallurgical services for Republic Steel, and Sinclair is professor of TAM at Urbana, and widely known for his contributions to the understanding of fatigue and fracture.

The U of I Alumni Association was represented by Lou Liay, vice president, who congratulated the group on its enthusiasm and concern for their alma mater, and presented Loyalty Awards to Stan Paprocki '47, president of Material Concepts, Inc., Columbus, and Bob Bohl '46.

Bohl, who is making a long drawn-out affair of retiring, was presented with a folio of testimonial letters from students recalling their memories of days in Bob's classes. Suffering from a headcold, flu, and high martini blood content, Bob's attempt to respond was cleverly cut short by presiding MMAA president Glen Wensch. According to sources close to Bohl, had he been given the opportunity to speak, he would have said how much he had enjoyed teaching and feeling a part of the careers of our graduates. He would have said any teaching success he may have had was achieved by copying the style of Earl Eckel. Again stealing Eckel's material, he

MMAA PERSPECTIVES

—Glen Wensch, President

This second year of the Metallurgy & Mining Alumni Association (MMAA) has been a memorable one:

1. The recession had a severe impact on higher education. We met with UI President Ikenberry and other officials on April 17 to learn the details of budget reductions. Some of the issues at that time were: a) higher education's budget was cut \$18M while other State agencies increased \$164.2M; b) higher education's share of State Revenue Funds decreased from 19.9% in FY70 to a proposed 12.2% in FY83; c) support per student declined 29% in real dollars in the past decade; d) we are losing faculty due to low salaries, overcrowded classrooms and obsolete equipment; e) admissions have been decreased in the face of increased demand by qualified students, so that admission standards are unreasonably high.

I met on May 17 with officers of other engineering college alumni groups and Dean Drucker to discuss how the constitution-

could help in this situation. A successful action was a request to AA members throughout Illinois to write legislators to support a relief appropriation. The bill passed, netting \$4.7M to the Urbana campus.

Unfortunately Gov. Thompson, after reelection, found the State coffers empty and the situation is now even worse. Tuition will increase \$100 this semester, faculty raises withheld, and the funding of the retirement system is far below legal requirements. Throughout these efforts, Pres. Ikenberry has given the College outstanding support; he believes in top quality engineering education and the value of high technology and is fighting for us.

2. We have agreed to strengthen our awards program. This decision was implemented last Fall, when five awards were made to outstanding alumni.

3. A constitution and Bylaws has been developed with the help of many individuals, and was approved at the Directors' meeting October 26, 1982. Copies are available on request.

4. It is disappointing that more of our graduates are not members of Uof I Alumni Association; less than 25% are members. Considering the closeness of student associations and the effort of the department to maintain close contact with graduates, we should lead the University. Remember, membership dues are tax-deductible, and the department receives \$2.25 of the annual \$11.00 dues.

5. The next Board of Directors meeting will be held in Urbana April 22-23. The next general MMAA meeting, with awards and honors for alumni, will be held in Philadelphia during the 1983 Fall meetings of ASM/AIME. Plan to be there!!

OPEN HOUSE MARCH 4-5

The theme of this year's annual Engineering College Open House, March 4/5, 1983, will be "Responding to Reality." An "alumnus only" program is featured this year, with a hospitality room, shuttle bus service, and special tours. This is an excellent opportunity to bring a group of young people to the campus—your kids, scouts, high school science students, etc. If you let us know, we can arrange a visit by a prospective metallurgy student with a faculty member.

would have claimed that any doubts regarding choice of career paths were clearly erased by the testimonies received by the students.

DEPARTMENT NOTES

Concern for the future of higher education in Illinois, especially engineering education, dominates our thoughts these days. Almost a decade of increasing engineering enrollments have been matched against a decline in real dollars of State support. Faculty members faced with greater teaching loads, less opportunity for research, and non-competitive salary increases are leaving for better opportunities elsewhere and it is becoming more difficult to attract new faculty. For example, last year the EE department made 20 offers to fill vacancies and all were declined. The effort to find dollars for modest salary increases has cut other expenditures to the bone, so library acquisitions, laboratory facilities, and other essentials suffer. This year's State budget allowed a 3% salary increase, but was not scheduled to begin until midyear. Now the governor has just ordered a further 3-month delay, so that the effective annual raise is less than 1%. The position of the College as one of the best in the nation is in real jeopardy.

One response forced on the College has been to further limit enrollment. Admission standards for new freshmen continue to climb. The median freshman admitted last Fall has a high school class rank of over 97% and an ACT score of 29. The number of new freshmen is 12% lower than last year. Transfers to the College have also been greatly limited. Compared to last year, 50% fewer transfers were accepted from other campus colleges, 25% fewer from junior colleges, and 60% fewer readmissions. Overall, the total input of new students was down 25%.

Our effort to increase metallurgy enrollment has been hard hit; we dropped this year to 88, a decline of 16%. It is truly sad to turn away so many highly qualified students. We will increase our efforts to maintain a program of viable size. One favorable note is that our graduate enrollment has been maintained at the level

of about 90 students.

Alumni might help this situation in several ways. Higher education's political base is weak and traditionally suffers disproportionately when budget cuts are made. Letters to the governor and legislature voicing the concern of citizens regarding the deterioration of higher education can be very effective. Corporate support is also playing an important role in providing funds for education. Industrial gifts, in spite of hard times, is increasing and is a factor in helping us buy equipment for undergraduate laboratories. Individual giving is also crucial. No doubt you have received announcements of the Annual Fund of the College of Engineering. Individual contributions made to the U of I Foundation may be designated to departments of the donors' choice and are used to upgrade the quality of undergraduate education. Typical uses are laboratory equipment, support of undergraduate student projects, reference books, student society activities, and plant trips. Those gifts which are matched by the company are doubly effective. Last year, this department received about \$4000 from individual alumni and corporate matching. The availability of these unrestricted grants is exceedingly important to us, and we urge you to consider this program.

Ron Yeske left Westinghouse last May and is now in Appleton, Wisconsin as a member of the Institute of Paper Chemistry. Ron was a superb teacher here, and is pleased to return to a position that offers teaching and research. The Institute is a degree-granting entity, with about 120 graduate students, and operates in an academic mode except that its funding comes from the paper industry. Ron's work involves both on-site visits to plants in the paper industry as well as projects at the laboratory. We enthusiastically wish Ron, Maril, and daughter Kathy success in the new position.

C. T. Wei has been selected

to receive the College of Engineering Alumni Honor Award for Distinguished Service in Engineering. This honor will be conferred during the College's Honors Convocation next April. Dr. Wei, who received his doctorate here in 1959, is now vice-president of China Steel Corporation in Taiwan. We enjoyed visiting with C-T when he was in St. Louis last Fall at the ASM/AIME meetings. C-T is now the fourth departmental alumnus to receive this honor in its 20-year history. Previous awardees were Harry Czyzewski, Hjalmar Johnson, and Paul Shewmon.

Marvin Wayman spent a month in Japan last Fall as guest of the Japanese Government and as a Fellow of the Japan Society for the Promotion of Science. Marv visited and lectured at several companies in an information exchange on applications of memory metals. He also gave an invited lecture to the Japan Institute of Metals and colloquium talks at Osaka, Kansai, and Tsukuba Universities.

Ted Rowland is spending half-time this year as a "revolving dean" in the Associate Dean's Office. Each year, a faculty member from a different department is chosen for this position. The program is intended to better acquaint faculty with the operation of the Dean's Office and to take this experience back to the department to improve the effectiveness of advising. Similarly, the revolving dean carries the academic perspective to the programs and decisions of the Dean's Office.

To further interaction between industry and the College a UI-Industry consortium has been organized to do research in the area of materials processing. Involved in this effort are Fred Lawrence, Hamish Fraser, and Mike Rigsbee, together with faculty from the ME and EE departments. Areas of research to be covered in the program include laser processing; erosion, corrosion and wear protection; rapid solidification technology; and fa-

Kali Mukherjee PhD '63 has been named a fellow of ASM in recognition of his outstanding contributions to the understanding of transformations and leadership in metallurgical education. Kali is professor of metallurgy at Michigan State.

Ken Boris '64 who spent many years with Anaconda, has struck off on his own, and has started a firm, TeleCreations, making novelty and decorator telephones. Ken's address is 701 W. Hampden, Englewood, CO 80154. Ken reports being a true western—horses, barn, pickup, trailer, smelly boots and all.

Alan Krug '64 has been named manager, model and analysis for Rockwell Hanford's Basalt Waste Isolation Project, dealing with radioactive materials storage.

Norris Dahlstrom '66 PhD '70 has been named senior staff engineer at Armco's Research & Technology Lab in Middletown, Ohio.

Les Kramer '66 was the 1982 recipient of the ASME George Westinghouse Silver Medal in Recognition of his achievements in promoting the understanding and prevention of corrosion-assisted failures in steam turbines. Les has his PhD from Penn State, and is responsible for the management of corporate metallurgical projects for Westinghouse dealing with materials and processes for large steam turbines.

Ken Carlson '70 PhD '78 is now senior engineer, Laser Center, for Westinghouse in Sunnysvale, CA. His job entails both R & D and manufacturing. Prior to this move, Ken was at Westinghouse's Hanford operation. His address is 15965 Oakridge Rd., Morgan Hill, CA 95037.

Chuck Rosenberg '70 MS '72 after 8 years with United Nuclear and Yankee Atomic Power and picking up an MBA in 1977, returned to the classroom and will graduate this June from John Marshall to add a J.D. to his string of degrees. Chuck was president of the Gavel Society, a leadership and honor society.

Bob Large MS '70 is now Director of Engineering at Anaconda Industries Tech center in

Schaumburg, IL. Bob previously had been with Wells Manufacturing in Skokie.

Dhruba Chakrabarti PhD '70 and Hiroshi Okamoto PhD '71 have joined the Dept. of Metallurgical Engineering and Materials Science of Carnegie-Mellon Univ. in Pittsburgh to work on the ASM alloy phase diagram project.

Michael Muntner '71 finished his MS at Connecticut (working with John Morral formerly on the staff here) and is now general supervisor of the materials and processing lab at Avco-Lycoming in Stratford, CT.

Sanak Mishra PhD '73 has returned to the Steel Authority of India R & D Center, Ranchi, where he is in charge of flat products. Sanak received a Humboldt Foundation Fellowship and spent two years at Aachen, Germany. Sanak also edits STEEL INDIA, and is an editor for the Trans. Magnetics Society of India. Chuck Chakravorty PhD '75 is a colleague at Ranchi.

John Beavers '73 PhD '77 lost his membership in the eligible bachelor's club last Oct. 2. John was backed up by Jerry Koch PhD '76 as best man and Larry Nelson PhD '76 ushering, with Neville Pugh heading the guest list. John and his bride, Cheryl, are now living at 3379 Polley Rd., Columbus, OH 43221.

R. W. Tustison PhD '76 has returned to the Research Laboratories of Raytheon in Boston.

Patricia (Birnbaum) Labrun MS '76 has been awarded a NATO Postdoctoral Fellowship. Pat has completed her PhD at Case-Western and will take her postdoc at Oxford. She was one of just twenty recipients in the physical sciences and math area.

Rich Skolly '78 began a new job last December for National Steel in their new Development Lab in Detroit. Congratulations on this significant promotion!

Al Stone '78 finished his MBA before leaving the campus to join the family heat treating business. That business has now been sold and after a period with US Testing Company, Al has formed his own company, Aston Metallurgical Services, 4201 No. Ravenswood, Chicago 60613. Aston will offer metal-

lurgical testing and consulting services.

David McDevitt '79 left Olin for graduate studies at the Univ. of Florida, and has now rejoined Olin's metallurgy staff at East Alton.

Nestor Zaluzec PhD '79 has been awarded the Burton Medr of the Electron Microscope Society, given in recognition of extensive research contributions by a young investigator. Nestor is at Argonne National Lab, and recently visited us and presented a colloquium talk.

Andrew Kohler '79 is now at Western Electric's Indianapolis Works as a planning engineer. Andy's address is 6062 Lural Hall Dr., #5, Indianapolis, IN 46226.

Greg Holloway '79 was married to Jasmine Babol last May in a ceremony with a true Illini flavor. Richard Zook and Dale Erickson, Greg's classmates, were best man and groomsman, and the congregation could have been mistaken for an Illini Club meeting. Greg and Mimi are at home at 1603 W. Margaret, Peoria, IL 61604.

Mike Kaufman '79 returned to Urbana for graduate study after a year with United Technology in Hartford. Mike has won the \$500 national AIME Student Paper Award for graduate students. Mike's paper, based on his doctoral research, is concerned with metastable phases formed during in-situ rapid solidification of Al-Ge alloys, and will be presented at the Atlanta meeting.

Mike Hahn MS '81 finished his PhD at Lehigh and has begun a postdoctoral appointment at Max Planck Institute for Iron Research in Dusseldorf. Mike plans to work on the effect phosphorous on SCC.

Jerry Elliott '82 who worked in Houston as a materials consultant at Exxon's national headquarters, has left Oil City for Michigan's Law School in Ann Arbor, and is now a student again.

Toni Grobstein '82 has resigned her position at Midwest Steel and is now a graduate student at Case-Western University.