

NEWSLETTER

Department of Metallurgy and Mining Engineering

University of Illinois at Urbana-Champaign

February 1984

ACTIVE YEAR FOR ALUMNI DIRECTORS

MMAA has continued to gain momentum during this third year due to the strong interest of our Directors, faculty and alumni. Some achievements include establishing committees to vitalize our efforts in granting awards to distinguished alumni; fostering enrollment, career and curriculum development (some of our suggestions will see changes); and obtaining funds and contributions from alumni and corporations, as demonstrated by the letter enclosed.

Your contacts with State legislators have helped fend off the Doomsday Budget some felt was imminent. You should know that Pres Ikenberry and Dean Drucker fought gallantly for engineering funding.

We plan to work with the Junior Academy of Science to offer cash prizes for projects dealing with metallurgy that are submitted to the annual science fair.

We urge you to join the UI Alumni Association. Our department has a relatively low proportion of members, which is surprising in view of the warm feelings and close spirit we associate with the department (and dues are tax-deductible!). Our next membership meeting will be in Detroit in mid-September—plan to be there!

—Glen Wensch

MAIL CONTACTS

Although the job market has picked up recently, there are still a number of companies whose needs do not justify sending a representative for campus interviews. The College Placement Office has initiated a new service in which weekly bulletins are published listing "Mail Contacts." Graduating seniors (or recent grads still looking for placement) can review these listings and send a letter and resume if interested. If you or your company would like to list opportunities for such mail contacts, write R.J. Mosborg, 109 Engineering Hall, 1308 W. Green, 61801.

CHARLIE WERT ANNOUNCES RESIGNATION OF HEADSHIP

Charles Wert recently informed the Dean and the faculty that he plans to resign as Department Head next December. This early announcement will allow time for a search committee to be formed and look for a successor at a careful and deliberate pace. Charlie joined our faculty in 1950, and became Head in 1966. His tenure as head is the longest in the department's history.

ENROLLMENT IS DOWN SLIGHTLY

Our undergraduate enrollment held fairly steady this year at 82, compared to 84 last year, but considerably down from the 106 of two years ago. The decrease can be partly attributed to a planned decrease in College enrollment of 300 in response to austerity budgets. Another factor is the great interest entering students have in computer science and engineering, which has drained students away from other curricula. So, while some curricula have suffered significant losses, (e.g., CE has dropped over 35%), computer science is swamped.

For the first time, the College has utilized a preferential admission plan to help balance enrollment according to the capacity of the departments. Last year, junior college transfers applying to under-enrolled curricula were accepted with slightly lower grades. A better distribution of freshmen is now under consideration, perhaps through more thorough counseling, a return to a true common freshman program, or (reluctantly) differential admission.

Even though our numbers have decreased, the quality of our students is amazingly high. The median new freshman came from the 98th percentile of the high school class. In the semester just completed, our median freshman's GPA was 4.5.

These statistics point out that our publicity and recruiting efforts must be continued and intensified; an effort that is extremely dependent on the important role played by the many companies that support our financial aid grants to

Charlie will continue as a professor in the department. At age 65, he feels he deserves a rest from administrative duties, and would like a few more years of teaching and continuing his research program in the "metallurgy of coal." The staff is grateful for Charlie's thoughtful and productive leadership over the years, and appreciate that he will still be with us in the years ahead.

ALUMNI MEET IN PHILADELPHIA

About 40 M&M alumni met last October in Philadelphia during the Joint ASM-AIME Fall meetings. Charlie Wert brought the group up-to-date on the status of the department. Glen Wensch MMAA President reviewed programs of the MMAA Directors, especially in areas of advice to the department on curriculum, fund-raising, procurement of equipment, and long-range planning. Wensch presented the Department's Distinguished Merit Awards to these outstanding alumni: Jim Bechtold, '47, MS '49; Keith Lampson, '49; Joseph Lane, '43; Mike Nevitt, '44, PhD '54; and Charles Squarcy, '36. Glen also presented the University's Loyalty Award to Lowell Hoffman, '63, in recognition of his dedication and service to the department and the University. Wert then surprised Glen by reviewing his many efforts on behalf of the MMAA and the department and presenting him the Loyalty Award. Next year's meeting will be in Detroit in early September. We hope this more mid-western location will allow a larger number of our graduates to gather and enjoy each other's company and recall their campus days.

prospective students.

At the graduate level, we have maintained an enrollment of about 80, slightly down from the peak of 93 three years ago. We seem to be able to attract many of our own best graduates in addition to top students from many schools across the country.

ALUMNI NOTES

Richard Reynolds and his wife visited last year. Dick has retired, learning to use computers, and doing consulting as Reynolds Engineering, 17306 Bryant Lane, Hazelcrest, IL 60429.

Harry Czyzewski '42 MS '49 has retired from MEI-Charlton, the consulting and analytical firm he founded 35 years ago, and transferred ownership to three board members. One of these is D. G. Chakrapani, PhD '75, who also serves as vice president and treasurer. Harry recently became a Life Member of ASM.

George Doremus '41 retired two years ago after a long career with Anaconda.

Howard Mendenhall '42 received the Copper Club Award by the ASTM B-5 Committee, Copper and Copper Cathodes, in recognition of his long and distinguished service. Howard is technical associate for marketing at Olin's Brass Group at E. Alton.

In spite of last year's declaration that Joe Lane '43 had retired from the National Research Council, Joe is still on the job and working harder than ever. He was recently involved in reviewing proposals for funding Centers for Advance Technology by New York State, which tested his knowledge of such fields as biotechnology, telecommunications and medical diagnosis. Joe still maintains his hobby of playing and restoring violins.

Gustavis Simpson '43 is a member of a newly-formed electronics department established at Battelle's Columbus Lab to consolidate expanding programs in electronics and related technologies.

Sam Leber '48 MS '49 has been elected president of the Micromineral Society affiliated with the Natural History Museum in Cleveland, which has earned him the appellation "Rockhead" among his intimates. Sam is now manager of the materials characterization lab at GE's Tungsten plant in Cleveland.

Bob Bertossa '49 has retired from Bechtel and spends most of his time hunting and fishing in various parts of the world, some consulting, and traveling with his wife, Irene. At this moment they should be cruising the So Pacific on a freighter. Bob reports that his brother Don '50 was elected vice president of

the American Welding Society, and has been very active in professional societies. Don left Chicago Bridge twelve years ago and is now with GE's Nuclear Energy Div in San Jose where his activities center on welding metallurgy.

Tom Noggle '48 PhD '55 is spending the year at Julich, Germany, with Alice and other family visiting him as their schedules permit.

Lester Kuhnenn '50 retired a year ago as manager, mining affiliates, for Bethlehem. Les was with Bethlehem for 32 years, 16 of which were at Bethlehem's mines in Chile. His latest position involved the design and engineering of an iron mine in China.

Stan Channon, PhD '51, has brought us up-to-date. He took advantage of early retirement from Aerospace in 1979, and went to Washington with the Institute for Defense Analysis dealing with export control of technology and on strategic analysis of composite materials. Now back in California, Stan continues to consult for DoD, which involves much travel to Europe and the Far East.

Robert Anderson '51, president of Anderson & Associates in Houston has semi-retired and turned the business over to his two sons. Bob is writing technical books for ASM.

Jim Stanley '52 PhD '59 is in the midst of a year's sabbatical from Arizona State. The first six months were spent at Los Alamos working on amorphous metals. The last six months will be at Grenoble, France where he will study kinetics of short range ordering and amorphous metals.

Paul Shewmon '52, head of metallurgy at Ohio State, was among those recently elected a Fellow of the Am Assoc for the Advancement of Science. Paul has also been awarded the Humboldt Fellowship, which will permit him to spend six months at the Max Planck Institute in Stuttgart beginning in February.

Roy Batista '56 was here last Fall for the first time since graduation to recruit Illini metallurgists for TRW in Redondo Beach, CA.

Jack Sayles '56 MS '58 has strayed from metallurgy, but picked a great place to defect; his address is 4181-2 Keanue, Honolulu, HI 96816. Jack does sales engineering for a

telecommunications company; island hopping is easy and fun now that he has his pilot's license.

John Koucky '57 has been elected vice president-engineering of Wagner Castings in Decatur, IL. A reorganization of Wagner involved sale of company stock to officers and managers. John has been with Wagner since 1968, except for a period which he spent as v-p/general manager at Pennsylvania Malleable Div of G&W at Lancaster, PA.

G. Ron Morris '59 is now president and CEO of P T Components Inc in Indianapolis.

Chuan-Tseng Wei PhD '59 received the College's Alumni Award for Distinguished Service in honors ceremonies here last April. C-T was on the faculty at Michigan State until 1976 when he became vice president of technology and chief metallurgist, China Steel Corp, Taiwan. Dr. Wei was on the campus several days and presented a number of lectures in addition to visiting old friends. Wei was cited as educator, researcher, engineer and industrialist, for the successful application of scientific principles to engineering operations.

Jim Perrin MS '61 has a new address and position: Fracture Control Corp-Columbus Office, 2014 Willowick Dr, Columbus, OH 43229.

John Ewing '62 was recently named general manager-technology at US Steel's Gary Works.

Bill Radecke '62 is now supervisor-process metallurgy at Cabot's Wrought Products Division in Kokomo, IN.

Myron Paul Gray '62 is now a captain in the US Navy. His current address is 2 Robin Hood Dr, Gales Ferry, CT 06335.

Pat (Bunn) Shamamy MS '63 has been elected president of the Detroit Section of the Society of Women Engineers. She received an award for her contributions to engineering education at the 1983 Gold Awards banquet of SWE. Pat is an Asst Prof at Lawrence Tech in Southfield, MI.

Stewart Veeck '63 is now manager-process development for Howmet's Technical Center in Whitehall, MI. We see Stewart on frequent occasions when he visits us on recruiting trips.

DEPARTMENT NOTES

ENGINEERING REVITALIZATION

For the first time in a number of years, State appropriations to the College have begun to reverse the underfunding that had become such a serious problem. In addition to modest campus-wide increases, a special appropriation, as part of a long range plan, earmarked for "engineering revitalization" was received. This amounted to \$3.0 million, or about 15% of the college's State budget. These funds have permitted more competitive salary increases (hoping to stem the tide of faculty leaving for better paying positions), staff additions to relieve classroom overcrowding, and purchase of equipment to combat obsolescence in many of our labs.

This increased funding for education was made possible as part of an increased State tax package. Many of our alumni especially our MMAA Directors, lobbied extensively for this package. We are deeply gratified for their successful efforts, so necessary if we are to maintain our reputation for quality.

STUDENT AWARD WINNERS

David Van Aken and Michael Kaufman, both graduate students under Hamish Fraser's direction, were awarded prestigious ONR Fellowships in national competition. Brian Booth and Marilyn Johnson, undergrads, were named ASM Scholars, and received cash awards from ASM. Bethlehem Steel sent a check for \$2750 to the University in recognition of Peter Hollingsworth's

Ron Gibala PhD '65 was named a Fellow of ASM in recognition of his achievements in education, research, consulting, and professional societies.

Don W. Genty '65 has been appointed to a newly-created position, Dean of Undergraduate Studies at Colorado School of Mines. Don took his MS in mining at Nevada and PhD at Arizona before going to Colorado in 1972.

Sid Diamond PhD '65 is now a research leader at Battelle-Columbus. Sid previously held positions at US Steel Research Lab and Westinghouse Advance Reaction Div. At Battelle, Sid's principal interest is rapid solidification technology.

participation in their Loop Course training program during the past two years.

ALUMNI AT CAREERS NIGHT

The undergraduates held their annual "Careers Night" last Spring and among the speakers advising students on careers in the outside world were Julia (Schmidt) Coffman '78 (Caterpillar), Tracy Hann '80 (USI Chemical), Pete Hollingsworth '81 (Bethlehem Steel), and Jake Zindel '80 (graduate student formerly with United Technologies).

ALUMNI GIVE COLLOQUIA

Several alumni were invited back to the campus during the past year to present colloquium talks. It was a pleasure to see and hear: Jai Sekar PhD '82 (who has returned to India after a short stay at Howmet), Dean Biehler '57 (Caterpillar), Dick Polizotti PhD '74 Exxon, Bob Lauf PhD '78 (Oak Ridge), Nestor Zaluzec PhD '79 (now at Argonne following a number of years at Oak Ridge.) Jai has set up a rapid solidification processing group at Defence Met Research Lab in Hyderabad.

WAYMAN UPDATE

Last July, Marvin Wayman became chief consultant to Memory Metals, Inc, Stamford, CT, manufacturers of devices from shape memory alloys, such as thermostatic valves, automatic window openers, and various actuators. During

John Sturgul PhD '67 is Professor and Head, Mining Engineering, So Australia Inst of Technology in Adelaide.

Lou Katz '70 has been transferred to Babcock & Wilcox's subsidiary, Diamond Power Specialty in Lancaster, OH. Lou is manager, Home Office Sales.

Krishnan Chawla PhD '71 is co-author of a new Prentice-Hall text: "Mechanical Metallurgy-Principles and Applications."

Charles Rosenberg '71 MS '72 has been working at the US Patent & Trademark Office in Arlington, VA since last August. After working in the nuclear industry in New England, Chuck spent the last three

years, he completed a book chapter on nondiffusive phase transformations which will appear in the text "Physical Metallurgy," edited by R.W. Cahn and P Haasen: No Holland Publishing. Marv will be the only non-Chinese to attend the first nationwide Conference on Martensitic Transformations, next Spring in Shanghai. The meeting is sponsored by the Shanghai Heat Treatment Assoc and the Shanghai Jiao Tong University. Also on Marv's busy schedule, he became Assoc Editor of *Materials Letters*.

SIGMA XI AWARD

Chande Tushar, a graduate student, won the Illinois Chapter Sigma Xi student paper contest for his paper on Laser Surface Alloying Low Carbon Steel.

BUSY BIRNBAUM

Howard Birnbaum has completed another typically busy year of service to the profession. Among his contributions are: DoE Materials Review Board (sets standards for nuclear waste disposal systems), DoE Basic Energy Sciences Advisory Board, Gordon Conference on Metal Hydrides (1985 Chairman), Organizing Committee for Int'l Symposium on Properties and Applications of Metal Hydrides (to be held in Israel, April 1984), organized a symposium on Surface Analytical Methods at the 1983 Golden Gate Conference, participated in NATO Conferences on Modulated Materials and on Phase Transformations held in Greece last summer. DoE Committee to evaluate US needs for synchrotron radiation sources, and is chairman of the HVEM-Tandem Facility at Argonne Lab.

years in Law School in Chicago, passed the Illinois Bar, and is now beginning a career that will combine his technical and legal studies.

Frank Nahlik '72 was awarded the F B McKune Award of the AIME Iron and Steel Society for the year's best paper on steel-making. Frank is in the BOF division at Inland Steel.

Ed Cox '73 PhD '78 has left Caterpillar and is now with Spectrum Laboratories in Dallas. Ed's address is 9747 Whitehurst, Unit No. 89, Dallas 75231.

John Beaver '73 PhD '77 married Cheryl Nance last year in Columbus. John is senior research scientist

at Battelle. The wedding was the occasion for the gathering of many of John's old school friends. The Beaver's new address is 3379 Polley Rd, Columbus.

Pat (Birnbaum) Labun MS '76 completed a postdoc fellowship at Oxford, and was met by husband Lance PhD '76 for a fabulous vacation trip around the world. Lance continues his work at GE's Lamp Div in Cleveland while Pat is pondering the next step in her career.

Bob Shull PhD '76 is now with the NBS, Bldg 231, Room 8150, Washington, DC 20234.

Tom Bond '77 MS '78 has moved from Peoria to Caterpillar's Joliet plant, where he will be in their heat treat engineering operation. Tom has also embarked on the U of Chicago's night school program leading to an MBA.

Fidel Reyes-Carmona MS '78 won honorable mention for best paper of 1982 by the Pittsburgh Iron & Steel Section of AIME. Fidel is a grad student at the U of British Columbia.

Ken Goretta '78 is a graduate student at IIT, following positions he held previously at Caterpillar and Nalco Chemical.

Jeff Bertschinger '78 has been named a Steel Fellow in the Timken-AISI program to stimulate dia-

logue between the educational and industrial communities. Jeff will be available, at Timken expense, to speak to student and faculty groups on aspects of the steel industry.

Jim Laverick MS '79 is now at Timken Research Lab in Canton, OH, and living at 10581 Charney NW, Uniontown, OH 44685.

Neal Berke PhD '79 has moved from Bethlehem's Homer Lab to W R Grace Construction Products Div in Cambridge, MA. Neal and Maxine are enjoying life at Chalford with a new son born appropriately on Valentine's Day. Neal's work concerns corrosion of reinforcing steels.

Mark Gorman '80 was featured in Armco's M & P Update, and cited for his stainless steel expertise. Mark is working on his MS at the U of Cincinnati. Mark visited us recently as Armco's liaison with the department and courier for Armco's annual \$2000 grant to our undergraduate program.

Gerry Matusiewicz PhD '82 has taken a position at IBM-Fishkill and has celebrated the arrival of their second child, a boy.

Barry Hindin PhD '82, is now at Battelle-Columbus, and recently became the father of a baby girl.

Carl Altstetter visited Roberto de Avillez, PhD '81, now Asst Prof at Pontificia Univesidades Catolica do Rio de Janerio. Roberto is estab-

lishing a research program in phase diagrams and grain boundary segregation in steels in addition to being in charge of the graduate program in materials.

Bill Wei PhD '82 has accepted a post doctoral position in Germany.

Last Fall's annual AIME Student Night included a visit to Bethlehem's Burns Harbor plant where we were hosted by Bev Gaitens '83, Pete Hollingsworth '81, and Keith Laurin '81. At the evening technical meeting, we saw Tom Bond, who brought metallurgy students from Bradley, and George Baker with his students from Wisconsin-Milwaukee.

Jim Carlson '82 has left US Steel and became a graduate student in metallurgy at Purdue.

Mark Twigg PhD '82 was awarded the Castaing Award of the Microbeam Analysis Society for the best student paper. Mark was married last March in Lexington, VA and is now at the NBS in Washington.

David Kleine '83 is now at McDonnell-Douglas Electronics and planning to begin graduate study at Washington Univ this Spring. Dave's address is 471 Bent Oak Dr, Lake St Louis, MO 63367.

Joe Hansen '83 is at LECO in Benton Harbor, MI where he is working on a hydrogen analytical probe for molten steel.

Are you
a member
of the
Alumni
Association
?

More than 81,000 alumni are - including approximately 48,000 who are life members. As a member you'll receive the Illinois Alumni News or U of I Chicagoan, as well as publications of your college or departmental constituent association. You'll qualify for our tour program, our insurance program and the annual family camp. And you'll continue your loyal involvement with something great - your University of Illinois.

To join, either as an annual member or as a life member, return this form with your check to: Alumni Association, 227 Illini Union, Urbana, Illinois 61801. (Make your check payable to the University of Illinois Alumni Association.)

- One year single membership—\$11 One year husband-wife—\$14
 SINGLE LIFE MEMBERSHIP—\$175. (INSTALLMENT PLAN: \$185—\$10 DOWN, FOUR YEARLY PAYMENTS OF \$43.75.)
 HUSBAND-WIFE LIFE MEMBERSHIP—\$200. (INSTALLMENT PLAN: \$210—\$10 DOWN, FOUR YEARLY PAYMENTS OF \$50.00.)

Name _____ S.S.# _____

Spouse's name (if an alumnus) _____

If female, list maiden name. Does spouse have a U. of I. degree? _____

Address _____

College & dept. _____ College yr. _____

If you're already a member, thanks for your support. If you graduated within the last two years, write for special life membership rates.

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