

NEWS - LETTER

UNIVERSITY OF ILLINOIS

Department of Metallurgy and Mining Engineering

January 1974

NEED TO BOLSTER MET ENROLLMENT

We must unfortunately relate that our undergraduate enrollment in metallurgy continues to decline in spite of the great demand for our graduates. We attribute this decline to the reduced emphasis we have had to devote to the publicity obtained by promoting financial aid programs in the high schools. This has been necessitated by a decline in financial support from industries over the past years when manpower needs were smaller. Now the pipeline is empty, and the need for graduates is great again. We hope the short-range view that created this situation is not allowed to occur again.

Our program was given a tremendous boost this fall when General Motors announced a \$5,000 grant to help us recruit students. In addition, the Abex Corporation joined us with a \$1,000 grant. These funds, together with old standbys Fansteel (\$1,500), Chicago Bridge (\$750), Olin (\$500), Caterpillar (\$500), Republic (\$400), Deere (\$375), Interlake (\$300), and the long-established grants from Alcoa (\$750) and Dow (\$500), have permitted us to renew our campaign, and we have had considerable success.

We have had applications from some 15 new students — we had only two applications and nine total freshman students enroll last year — and this increase in interest is attributed to our announcements of financial aid grants in the high schools. Frankly, we have overcommitted ourselves to applicants for aid next fall, but we are counting on increased funding from new sources and higher levels of funding from current supporters.

Earl Eckel WINS ASM's White Award as outstanding teacher

By this time everyone knows that Earl Eckel received ASM's Albert Easton White Award for Outstanding Teaching at the fall annual meeting last October. The help received from so many of Earl's former students who supported the nomination so strongly is gratefully appreciated. We know it was a labor of love for everyone involved. All who know Earl take great pride in the recognition he has received, but the greatest thrill of all has come from the realization of what the award has meant to Earl himself.

An Appreciation

by

Earl J. Eckel

A year ago when I decided to retire, I had a number of reasons for questioning the goals and priorities I had chosen during my 34-year career at the U of I. These doubts, however, were dispelled by the flood of complimentary letters and phone calls that followed the announcement of my retirement and nomination for the ASM teaching award. Then this fall there was the wonderful alumni dinner, and finally the award presentation and dinner which were memorable events for my wife and me. In fact, if I had had the opportunity to plan a finale for my career I couldn't have dreamed up a better one. Thus my former students and colleagues have made it possible for me to close the door on my teaching and metallurgy career with a sense of satisfaction which will materially contribute to my contentment during retirement, and for this I'm very grateful.

Alumni Dinner Honors Eckel

Over 75 alumni met at the Como Inn in Chicago for our annual alumni dinner, and to honor Earl Eckel. It was the largest meeting of alumni we have ever had. This response has encouraged us to plan an alumni meeting in conjunction with next fall's Metal Congress in Detroit. Earlier, we felt that declining attendance and rising costs might prevent us from planning these get-togethers, but now we are encouraged to try again. Tentatively, we are planning to meet at the Top-of-the-Flame Restaurant in Detroit on Tuesday evening, October 22, 1974. Mark this date now on your calendars and expect to hear from us definitely in the fall.

We particularly ask you to apply some pressure on the right people in your company to join us in our efforts to stimulate interest in metallurgy. You could also suggest to us the name of the proper person in your company to contact regarding this program.

This program is to do more than to just produce more graduates. It is

a question of the survival of the department. As enrollments continue to decline, we are unable to offer the variety of courses a broadly trained metallurgist needs, and there is a very real threat that we may experience the fate of so many schools that have had to eliminate their programs in metallurgical engineering.

ALUMNI NEWS

Don C. Johns, '17, who goes as far back as any two of the most of us, retired after a career in the oil and coal business, and now enjoys the good life in Florida where, at 82, he indulges himself in an active life of swimming, fishing, gardening, and other hobbies.

Bertrand H. Lindley, '22, has been retired since 1966 after 40 years with the U.S. Corps of Engineers, the last 28 years with the Mississippi River Commission. He could not leave the river nor his much-loved Vicksburg, and is living there in retirement at 3200 Washington, Vicksburg, MS 39180.

We were very touched to receive a check from Charles Boley, '35, sent to insure continued publication of the Newsletter. Chuck received the first graduate degree granted by the department, his M.S., in 1938. He later received his Ph.D. in mining in 1947. Chuck's address has long been out-of-date: he is with the Bureau of Mines, Univ. Station, Grand Forks, ND 85201, and lives at 3306 Chestnut St., Grand Forks. He has also provided us with corrected addresses for other alumni that are listed in another column. An excellent suggestion from Chuck is that the status of former staff members be noted. As a start, Chuck writes that A.C. Callen and D.R. Mitchell are both deceased, and that H.L. Walker is retired at 5101 Royenne, Albuquerque, NM, and J.L.G. Weysser is retired at 1501 Hartwick Dr., Sun City Center, FL 33570. We will attempt to get information on other former staff for future editions of the Newsletter.

H.W. Briske, '40, is International Sales Manager for Wisconsin Steel Division of International Harvester, and has his office at 401 N. Michigan Ave. in Chicago. Hubert's new home address is 131 North Mayfair Pl., Chicago Heights, IL 60411.

Congratulations to R.H. Van Pelt, '43, who was named this fall as a Trustee of the American Society for Metals.

Keller Phillippe, '43, has taken early retirement from U.S. Steel and is in the real estate business in Walnut Creek, California. His address is 2722 Walnut Blvd., Walnut Creek, CA 94596.

James Snider, '44, is now Vice-Pres.-Exploration for Cardinal Petroleum in Denver, and his address is RR #1, Box 330-D, Evergreen, CO 80439.

Joe Gaines, '44, is Vice-Pres.-Manufacturing for Kroll International, East Greenville, Pennsylvania, and is living at 13 Heather Dr., Allentown, PA 18103.

Howard Beede, '46, has retired as Asst. Plant Manager of American Bridge's South San Francisco plant. At last report was looking for something to keep him busy during the coming years.

Ed Kaminski, '50, has returned to our mailing list. Ed is Senior Materials and Process Engineer with Lockheed in Sunnyvale, CA (P.O. Box 504, ZIP 94088) and Chairman of the Santa Clara ASM chapter. Wayne Drom, '50, is with Ed at Lockheed.

Paul Shewmon, '52, who was Director of the Materials Science Division at Argonne Lab, is now director of the Division of Materials Research for the National Science Foundation.

Bill Bond, '53, is now Chief, Materials and Processes, Bell Helicopter in Ft. Worth. He has provided us with this information of other alumni in the area: Dave Nichols, '70, is attending the University of Texas at Arlington. Dave Braden, '65, formerly with Bell, is now Plant Metallurgist, Texas Bronze Division of Anadite, P.O. Box 15035, Ft. Worth, TX 76119. Dave's new home address is 59 Town House Ln., Grand Prairie, TX 75050. Kenneth Dalbow, '65, has moved to 1815 Holm Oak Dr., Arlington, TX 76012. Ken is with Bell as Asst. Group Engineer, Transmission Process Lab.

Robert Draznik, '53, is now Manager, Materials and Processes for Sunbeam Appliances Division R & D Center, Oak Brook, Illinois.

Richard Gaydos, '54, has been promoted to General Superintendent of Operations for Republic's South Chicago plant. Dick has been with Republic since his graduation, and we are proud of the succession of promotions that he has earned during that time.

Al Klein, '55, visited us with his two oldest, Karen and Steve, in the hopes that one might see the light and study engineering. Al has filed a project completion report following the arrival of the twelfth Klein youngster last May.

Howard Friedman, '55, President of Fotofabrication Corp., has announced a recent move to much larger facilities at 3758 Belmont in Chicago. This move was necessary to accommodate the great increase in business his company has enjoyed.

Earl Carlson, '56, has brought us up-to-date on his career, as well as providing much appreciated information on some of his classmates. Earl went with Electromet Division of Union Carbide after graduation, had two years of army duty in Hawaii, returned for three years with Inland Steel Research Lab, and since 1962 has been with Amsted Research Lab working on direct casting of steel (mainly stainless) slabs and billets. Earl is now living at 1707 Beech Rd., Mt. Prospect, IL 60056. He reports that Ron Nylen, '56, has left Homogeneous Metals and is now with Allegheny-Ludlum in Watervliet, N.Y. Bruce Aufderhaar, '56, is director of technical services for Special Metals in Utica, N.Y., and Bill Albert, '56, is in Houston, Texas, with Aircro Products, a firm involved in such metallurgical processes as freeze drying of meat and carbonation of soft drinks. Earl has a family of four boys and promised to direct them to the study of engineering at Illinois.

John Koucky, '57, is Manager of Technical Administration for Wagner Castings, P.O. Box 1319, Decatur, IL 62525. John is living at 2210 Gary Dr., Decatur 62526. He is active in the local ASM chapter, and we enjoy seeing him at the meetings.

A modest, but important correction in the address of Bill Becker, '57, Bill is with the University of Tennessee at Knoxville, not Telahoma as reported.

Jim Horak, '58, now with the Nuclear Engineering Department at the University of New Mexico, but on sabbatical this year at Los Alamos, was co-author of the technical paper judged the best presented in 1973 by the Materials Science and Technology Division of the American Nuclear Society. Jim has been very active in the affairs of ANS in addition to maintaining a busy schedule of teaching and research.

George R. Morris, '59, has been transferred from St. Louis to Lancaster, Pennsylvania, by virtue of his promotion to Plant Manager of the Federal-Mogul Bearing plant there.

Paul R. Stewart, '60, has recently been appointed Vice-Pres.-Engineering of Belco Petroleum Corp. in New York. Paul received his M.S. in petroleum engineering here following undergraduate work in geology at North Carolina State.

John Hren, '60, has been promoted to Professor of Materials Science and Engineering at the University of Florida. John has a new home address: 2844 NW 4th Ln., Gainesville, FL 32607.

Kenneth Wood, '60, received his M.B.A. from the University of Chicago in '69, and is now market development manager for Buil-Dix Division of Illinois Tool Works.

We were glad to reestablish contact with Gerald W. Duray, '61, when he visited the department last

DEPARTMENT NEWS

Dr. Ron Yeske, a recent graduate of Northwestern University has accepted an appointment as assistant professor in the department. Ron spent a year at Los Alamos working on the effects of radiation on the properties of structural materials. He will continue his study of high temperature deformation of solids, especially in radiation environments, when he arrives on the campus shortly after the first of this year.

Professor Paul Beck has been announced as the first recipient of the Hume-Rothery Award of the Metallurgical Society of the AIME. This is a new award, and will be given on the basis of contributions to alloy research. The award will be conferred during the May meeting of the society. Paul visited Russia, France, and Germany last summer where he participated in several conferences concerned with the electronic and magnetic properties of alloys.

It is planned to combine the experience of Professors Altstetter and Birnbaum dealing with the fundamental aspects of hydrogen in metals with Professor Pugh's experience in stress corrosion cracking to develop a new research effort in the field of hydrogen embrittlement. This program will be directed towards solutions of significant problems that are of practical importance to many industries. They hope to involve other staff whose work in related areas, such as fracture mechanics, will enhance the broad approach that is proposed for this program.

Related to this effort is the award of a joint research grant by NSF to the department and the Science Center of Rockwell, International to study the changes in elastic constants that occur when hydrogen is added to metals.

Durgam Chakrapani, with the help of Professor Pugh, has organized and is running a corrosion laboratory for the University's Physical Plant. The lab investigates various equipment failures and suggests

maintenance procedures to avoid premature failure. The Physical Plant is greatly pleased with the very successful record of decreased failure rates that have been attributed to the laboratory. Durgam is completing work on his Ph.D. thesis.

Neville Pugh was invited to be a Guest Assessor at the International Conference on Stress Corrosion Cracking and Hydrogen Embrittlement of Iron-base Alloys last June in Firminy, France. Nev is completing his second year as chairman of AIME's Corrosion-resistant Metals Committee, and was Chairman of the 1973 NACE Research Conference held last March in California. This sample of Nev's activities, in addition to his reputation as an outstanding teacher, explain why he was promoted to full professorship this year.

Charlie Wert and Carl Altstetter presented papers at the Third International Conference on Strength of Metals and Alloys held in Cambridge, England, last August. Both families took advantage of this opportunity to be abroad: the Altsteters to tour Great Britain, and the Werts to attend the wedding of their son, John, in Tours, France.

Professor Marvin Wayman has received an NSF research grant to study shape memory of "marmem" (martensite memory) alloys. This will be a cooperative program with Professor Shimizu of Osaka University, and is also being funded by the Japanese Society for the Promotion of Science. Among Marvin's other activities, he is now a member of the National Academy of Science Committee advisory to the U.S. Army Research Office, and is ASM representative to the Executive Committee, Metallurgical Transactions.

Professor Joe Greene has just received a patent on glow discharge optical spectroscopy as a technique for characterizing and analyzing thin films. Joe is also co-chairman of the University's Physical Electronics Industrial Affiliates Program.

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ALUMNI NEWS (cont'd)

August. Gerry is Vice-Pres. of Project Systems and Associates of Chicago, a management consulting firm specializing in computerized scheduling. His address is 328 Eastern Ave., Barrington, IL 60010.

F.X. Spiegel, '63, has been named Chairman of the Department of Physics, Engineering, and Computer Science at Loyola College in Baltimore. He has been at Loyola since receiving his M.S. here, and has been very active in college and civic affairs during this period.

Lowell Hoffman, '63, was on the campus at Homecoming as chairman of the University YMCA's Homecoming affair. Lowell was a cabinet officer during his student days. Lowell is now living at 25316 Burning Trail, Wheaton, IL 60187.

Phil Lindsay, '65, is now at Bechtel Corp., Metallurgy Department, 50 Beale St., San Francisco, CA 94119, and working under Bob Bertossa, '50. Phil's home address is 2077 Tapscott, El Cerrito, CA.

Don W. Gentry, '65, is now Asst. Professor of Mining at Colorado School of Mines, after receiving his M.S. from the Mackay School of Mines in Reno, and his Ph.D. from the University of Arizona. Don has also had considerable professional experience with mining companies throughout the west.

Bill Zimmer, '65, was transferred by American Brass from Connecticut to Wisconsin, and is now living at Rt. 3, Box 174, Salem, WI 53168. Bill has begun an MBA program at Loyola this fall.

Gregory Paskiet, '66, was formerly with Pratt & Whitney and is now a metallurgical engineer with American Can in Chicago.

Chitta Nanda, '66, is now Asst. Professor of Metallurgical Engineering at the Regional Engineering College in Rourkela, Orissa, India. Chitta earned his Ph.D. from Wisconsin before returning to

India. Chitta and his wife, Geeta, who is a medical doctor, have a daughter born just after their move to Rourkela about a year ago.

T.R. Thakur, '67, has been with the Canadian Department of Environment as a scientist in environmental management for the last 18 months. He is involved with problems associated with construction of the pipeline to the Alaskan oil fields.

Bill Barton, '68, is now with Mirro Aluminum in Manitowoc, Wisconsin, as Chief (and only, Bill says) Metallurgist. He reports that his colleague from former days at Reynolds, Art Nelson, is now with Signode Steel.

Kenneth Czernick, '69, is now in Product Engineering at GM's AC Spark Plug Division after transferring from the Technical Center in Warren, Michigan. Ken's new address is 7929 Howell, Oak Creek, WI 53154.

Martin Essien, '68, is now a process metallurgist with Olin in East Alton, and is living at 1773 Prima Vera, St. Louis, MO 63138. Martin is planning on beginning courses in business school this year.

We'll know which TV commercial to believe now that H.Y. Chang, '69, has begun working for the Gillette Labs in Boston. Dr. Chang spent a year as a post-doc at the University of Kentucky with Professor Hans Conrad after finishing his Ph.D. here last year.

Mike Valentine, '70, completed his M.S. here last February and is now with the Naval Air System Command, Materials and Processing Branch, Arlington, VA.

Michael Muntner, '71, after working with the U.S. Corps of Engineers Research Lab in Champaign, and doing graduate study in the department, has taken a job with Pratt & Whitney in East Hartford, and is living at 48 Madison Rd., Glastonbury, CT 06033.

Following are changes of address of which we have become aware since mailing out the last supplement to the Alumni Directory in July. If you haven't received the Supplement, drop a note to the department and one will be mailed to you.

N.A. Tolch, '24, 3520 Third Ave., Apt. 107, San Diego, CA 92103.

Amzi G. Gossard, '37, Kerr-McGee Corp., 133 R.S. Kerr Ave., Oklahoma City, OK 73102.

L.O. Brooks, '39, 1453 Westbury Dr., Davison, MI 48423.

Robert N. Morris, '47, Sr. Trans. Analyst, Fuels, S. Railway System, Box 1808, Washington, D.C. 20013.

Ernst Huschke, '55, 8354 Natalie Ln., Canoga Park, CA 91304.

Robert F. Alm, '63, 1621 Chestnut Dr., Morgan City, LA 70380.

Larry P. Tabaka, '65, 211 S. 5th East, Green River, WY 82939.

Dennis Carroll, '65, Bus.: Automotive Safety Center, Ford Motor Co., P.O. Box 2053, Dearborn, MI 48121. Home: 322 Tannahill, Dearborn, MI 48124.

James W. Bohlen, '67, 4027 Hillswind, San Antonio, TX 78217.

B.K. Ganguly, '71, Met. & Ceramics Res. Lab, Aerospace Res. Lab, Wright-Patterson AFB, Dayton, OH 45433.

DECEASED

We learned only this summer that Robert Wagner died in an automobile accident November 1972. Bob had just received his M.S. here that June, and had only recently begun working for AC Spark Plug. We were all greatly saddened to learn of the untimely loss of this bright and personable young man.

Joe Legru, '58, died this summer due to a brain tumor. Joe was an Examiner in the U.S. Patent Office in Arlington, Virginia. We share this loss with his family.

We have also received word that the following are deceased:

E.J. Rossback, '12
Ernest V. Allen, '16
James C. Fitzpatrick, '20
Edmund R. Martin, '26
William C. Campbell, '47