

NEWS-LETTER

UNIVERSITY OF ILLINOIS

Department of Metallurgy & Mining Engineering

JANUARY, 1971

Cyril Smith Gives First Read Lecture



The first Thomas A. Read memorial lecture was held last April, and upon that occasion, the bronze plaque pictured above was dedicated to the memory of our former department head. The plaque is located in the main corridor of the building.

The lecture was given by Cyril Stanley Smith, and dealt with the role of metallurgy in art and the humanities. Dr. Smith, as a good friend of Tom's and a metallurgist without peer, was an ideal choice as the first lecturer. His topic was also most appropriate, as it reflected the diversity of Tom's interests. Additional lectures will be presented as permitted by the income from contributions made by friends, students, and colleagues of Tom Read.

ALUMNI DIRECTORY

Our most recent revision of the alumni directory was completed this summer, and sent to all graduates. As is always the case, it inspired a rash of corrections, so that we are already accumulating raw material for the next revision. If you haven't received your copy, a note to the office will start one on its way to you.

Walter Herbert Bruckner

We are deeply saddened to bring you word of the death of our good friend and respected colleague, Walter Bruckner. Walter died Sept. 6, 1970, at the age of 67 and after thirty-one years with the department.

His first full-time position was as a research engineer with Crucible Steel, where he was responsible for the design and development of a metallurgical laboratory, and he retained his interest and activity in research work throughout his career. Before coming to Illinois, Walter worked at American Smelting & Refining, and the U. S. Navy Research Lab, where he first became involved with problems in welding.

When he came to Urbana in 1938, Walter's principal efforts were in the field of welding and the properties of welded joints. He attained great distinction in this field, and was awarded the American Welding Society's Lincoln Gold Medal for his outstanding contributions to welding. Later, he received the Society's Adams Memorial Award in recognition of his contributions to the teaching of welding technology. In 1954, he published a welding text that was highly

MARION HUBER

Miss Marion Huber, our departmental secretary of recent years, is on a year's leave in Florida. Marions initiative and sense of responsibility brought her into close contact with students as well as faculty, and the many friends she made will want to know her new address: 4365 Hickory Dr., Palm Beach Gardens, Lake Park, Florida 33403.

Mrs. Vera Sands has assumed the challenge of trying to fill the void created when Marion left.

acknowledged and widely adopted.

Walter had a long-standing interest in problems of corrosion stemming from his background in chemical engineering, and earlier contacts with corrosion problems. In 1954, this interest was rekindled, and he organized the Cathodic Protection Laboratory within the Electrical Engineering Dept. He organized a series of successful short courses in corrosion and cathodic protection for practicing engineers. His ability to cross traditional department lines made him a pioneer of the interdisciplinary research which later was to become an important feature of the program of the College. Walter taught very popular courses in welding and corrosion, and his students in these courses were often motivated to seek careers in one of these specialized areas.

Walter was much beloved by his students. He insisted on high professional standards and prepared his students well for their careers. At the same time, he was a true friend and counsellor, entertained his students in his home, and was genuinely concerned with their problems and aspirations. He remained in close contact with them and followed their careers with great interest. Within the past year, the undergraduate students presented him with a plaque engraved: "In appreciation of over thirty years of teaching, counseling, and friendship to undergraduates."

Walter is survived by his father, his wife Ruth, his children Charles and Audrey, and five grandchildren. Ruth continues her work at the University, and is living in the family home at 1412 W. University in Champaign. Walter had a full life and his family and friends can take pride in the affection and respect in which he was held by all who knew him.

NEWS . . . FROM THE DEPARTMENT

ENROLLMENT

Our Fall undergraduate enrollment stands at 67, somewhat higher than it has been in the past three years. In this total are 27 new freshmen and transfer students. The quality of these students is excellent; eight are designated as Honors students, a higher proportion than the rest of the College.

Our favorable enrollment picture, in the face of decreasing interest in technical areas by students, is a tribute to the scholarship support given us by a number of industries in the State, and the efforts of the faculty.

A new freshman orientation program was begun this year which allots us a series of five sessions with students who indicate some interest in materials. We talked to some 50 students, and they were highly responsive to our presentation, which included one program prepared by our students. Indications are that some of these students plan to transfer to metallurgy on the basis of this contact.

The graduate enrollment stands at 58, which is down from our peak of 67. This is a college-wide trend, and reflects a number of factors: elimination of student draft deferments, the depressed job market for advanced degrees, and the decreased level of research support.

PAUL BECK IS ASM FELLOW

Paul A. Beck was honored by selection as a Fellow of the American Society of Metals, and installed at the October meeting of ASM in Cleveland. The Fellow member designation was initiated this year by ASM to honor outstanding individual accomplishment in some phase of metallurgy or materials science.

We also congratulate these alumni whose names we recognized in the list of Fellows: James H. Bechtold, '46, Director, Materials Consulting, Westinghouse; Robert C. Bertossa, '49, Vice President, Coast Metals; Michael V. Nevitt, '44, Deputy Lab Director, Argonne Nat'l Lab; Thomas E. Perry, '58, Asst. Chief Metallurgist, Republic; and Joseph L. Waisman, '40, Director, R & D, McDonnell-Douglas.

COLLEGE AWARD WINNERS

The announcement of the annual Engineering College Awards this year is testimony of the concern our department holds for its students, and the appreciation the students have of the kind of relationships which have been a tradition in our department.

Carl Altstetter was named winner of the Everitt Undergraduate Teaching Excellence Award. Carl was nominated by his students, primarily on the basis of his efforts in developing our new physical metallurgy laboratory course which was received with great enthusiasm by those enrolled. This recognition carries with it a great deal of personal satisfaction as well as a cash award of \$500.

Charles Wert won the Stanley Pierce Award granted each year on the basis of improvement of student-faculty relations. As all our former students well know, Charlie has a long history of concern with student problems: as director of the James Scholars program, chairman of the Senate's Educational Policy committee and of the Academic Council, as department head, and as professor and advisor.

Bob Bohl was chosen as an honorary Knight of St. Pat. This award is to recognize students involved in college activities; the knights-elect then bestow the honorary award on a faculty member.

In the context of recognition of excellence, it is noted that Carl was promoted to full professor standing this Fall. The administration of the college is obviously well-pleased with Carl's accomplishments as a teacher and researcher.

ALUMNI DINNER

It isn't news that this was a down year for convention traveling, and our annual alumni dinner also felt the pinch. Nevertheless, approximately 45 of us had a most enjoyable dinner and evening in Cleveland last October. There were the usual cadre of "regulars" that we look forward to seeing each year as well as the pleasant surprises when someone we haven't seen for a number of years is able to attend.

Pressure from the ASM forced

NEVILLE PUGH ON STAFF

We are pleased to announce the addition to our staff of E. Neville Pugh as Associate Professor of Metallurgy. Neville received his B.S. and Ph.D. degrees in metallurgy from the University of Wales, Cardiff, Britain. He spent four years in Australia as Scientific Officer at the Defense Standards Laboratory in Sydney, then came to RIAS in Baltimore, where he worked the past five years. While at RIAS, he also taught courses at George Washington Univ.

Neville is very active in the ASM, AIME, and NACE, and has a distinguished record of publications. He will continue his research on the influence of environment on the mechanical behavior of solids, especially stress corrosion cracking. Neville is particularly qualified to strengthen our efforts to relate the fundamental behavior of solids to the engineering applications of alloys.

Neville is married and has two small children. We are fortunate to have such a personable and friendly person of such high professional stature on our staff.

STUDENTS ON FIELD TRIPS

A field trip to end all field trips took place last April as a full bus of students and staff spent two days visiting the facilities of the Battelle-Columbus Laboratories. We were the guests of Battelle for the entire operation through the courtesy of Stan Paprocki, '46, and Don Kizer, '57, and the machinations of Chuck Rosenberg, president of the student society and summer employee of Battelle. The year 1970 will go down in the annals of the department as the "Year of the Battelle Trip."

The annual trip to Chicago sponsored by the Chicago Section — AIME featured an interesting trip to Continental Can Co. this Fall. We were pleased to see alumni Bob Setlak, '64, and Al Gustafson, '67, during our tour through the laboratories.

us to schedule the dinner on Wednesday, but next year we hope to return to Tuesday, which seems to be more suitable to most.

NEWS

. . . . FROM THE ALUMNI

We were glad to hear from Ralph Herzler, '40, now with R B & W Powdered Metal Products in Sturgis, Michigan. Ralph points out that the *Newsletter* is one voice from the past that isn't accompanied by a dues statement—are we missing something?

Robert B. Fisher, '53, is production control manager for Buhr Machine Tool Corp. in Ann Arbor. Bob earned an MBA in production management from the University of Chicago.

Cecil W. Smith, '13, probably our oldest correspondent (in years, at least), still refuses complete retirement. Cecil is Chairman of the Board of Montana-Dakota Utilities Co. and of Knife River Coal Co.

Mike Rehtin, '66, visited the lab last year with his wife (the daughter of Lowell Lloyd, '44), following completion of his Ph.D. at MIT. Mike is back at MIT on a post-doctoral fellowship continuing work in his research area of magnetic properties of oxides.

Asim Chaudhari, '67, spent a few days of this vacation in Urbana on a busman's holiday doing research in the library. Asim is at the Caterpillar Research Lab, and taking business administration courses at Bradley Univ.

R. H. Schark '49, reports a new address: Flexonics Div., Universal Oil Products, 300 E. Devon, Bartlett, Ill. 60103.

Arthur Murton, '25, now retired as President of Blaw-Knox Co., has moved to Winter Park, Florida from Pittsburgh. Arthur has retained strong ties with the University, and is a member of the U. of I. Foundation and of the President's Club. Arthur reports news of two of his '25 classmates: Albert T. Koenen has retired from U. S. Steel's taconite operations in Hibbing, Minn. and is living at 3543 Brook St., No. 102, Lafayette, California 94596; and George E. Morris retired after a long career with Anaconda, and is now located at

1501 No. Miracle Mile, Apt. 1423, Tucson, Arizona 85705.

Glenn Canfield, '59, has taken a new job with Colt Industries, Crucible Specialty Metals Div., Syracuse, New York as superintendent of vacuum melting. Glenn's "spare" hours are spent finishing up work on his LLB degree, and catering to the demands of his four children.

Wells E. "Gene" Ellis '47, was stricken by a fatal heart attack in early October. Gene had made reservations for himself and his wife for the alumni dinner in Cleveland, and we were looking forward to seeing our old friend again. Our deepest sympathy is extended to Mrs. Ellis in her untimely loss.

Ron Malatesta, '65, has completed his M.S. in metallurgy at Berkeley, and is now working for the Defense Department at Mare Island in Vallejo, California.

Mike Fiene, '68, has left Ford's Fundamental Research Laboratory, and is now a research metallurgist at the International Nickel Company's Sterling Forest Laboratory.

Donald McCarthy, '51, formed his own company for the construction and engineering of underground facilities. McCarthy Engineering is located in Tulsa. Don planned to organize a meeting of his '51 classmates in mining, and we hope his efforts were successful.

Burton C. Person, '47, has recently joined Columbia Broadcasting System as Director of Corporate Planning, and is located at CBS, 51 W. 52nd St., New York 10019. Burt's responsibilities are a little removed from metallurgy, but he retains his interest in the field and especially in his friends from college days.

Rodney Bond, '67, who had his work at Texas Instruments interrupted by 18 months in the Navy, has returned to TI, and is planning additional graduate work in busi-

ness. Rod was married to a Texas belle from Dallas, and is living at 915 Spring Valley Plaza, Apt. 106, Richardson, Texas 75080.

Jim Cost, '59, has been promoted to Professor of Materials Science and Engineering, and appointed to the Alcoa Foundation Chair at Purdue.

Harry Levin, '61, completed his Ph.D. at Northwestern this year, and resigned his position at Argonne Nat'l Lab in favor of General Electric's Vallecitos Nuclear Center at Pleasanton, Calif. Harry is working on materials problems involved in nuclear thermionic conversion processes. His new address is: 851 Leland Ct., Livermore, Calif. 94550.

Richard DeWitt, '49, has been named Manager, Product Development for International Nickel Co. Dick has been involved in various aspects of product development for INCO since 1959. But for the University's unsympathetic attitude toward out-of-state admissions, Dick's son would have begun to follow his father's footsteps at Illinois a few years ago. We were very disappointed that it didn't work out.

Leslie S. Veltz, '26, is another testimony to the fact that these miners never quit. Mr. Veltz came out of retirement to begin a new career as safety consultant to the aggregate industry. Leslie spent many years as Safety Director for Vulcan Materials Co. He is publishing articles regularly in **Rock Products** and **Pit and Quarry**.

Jim DeChant, '66, is now quality control manager for Fairbanks-Morse Div., Colt Industries, in Beloit, Wisconsin.

Richard Forbes, '64, has been appointed chief engineer, powdered metals parts for Rockwell Mfg. Co. in DuBois, Pa.

John Hebeisen, '66, is now a research metallurgist at Crucible Materials Research Center in Pitts-

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ALUMNI NEWS...

(Continued from Page 3.)

burgh. Jim was formerly located at Battelle-Columbus.

C. Walter Beattie, '37, was awarded the ASTM Award of Merit last June in recognition of his distinguished service to the society. His particular efforts dealt with his contributions to the development of specifications for metallic-coated products. Walter is with Armco in Middletown, Ohio, in the Quality and Metallurgy, Steel Operations Div. He has been with Armco since his graduation in one of our earliest metallurgy classes.

Bill Heminghaus, '68, has returned to the academic wars, and is now a graduate student at Ohio State following a brief period of employment at Allison in Indianapolis.

Don Loebach, '67, has been named manager of manufacturing and materials development at Caterpillar's East Peoria plant.

George Tisinai, '48, was promoted to chief metallurgist, Tubular Products Div. of Babcock and Wilcox's Beaver Falls plant.

Bob Hinton, '61, is now Superintendent of Services-Metallography at Bethlehem's Homer Research Laboratory.

George Mah, '60, has resigned his position on the metallurgy faculty at Arizona State Univ., and is now at Dow's Rocky Flats operation.

John Moninger, '44, who is president of Moninger Foundry Supplies, has a new address: 7330 W. Cortland St., Elmwood Park, Ill. 60635.

Richard Ausfahl, '50, is back at Caterpillar's East Peoria plant, after a long career with various plants in different parts of the world. Dick is Manager of Undercarriage Development.

Paul Richards, '33, has recently changed address: P.O. Box 690, Route 7, Morgantown, W. Va. 26505.

Jim Linnell, '69, married one of the prettiest girls we've met in some time this summer, the former Pam Wheeler. Jim is working for U. S. Steel at South Works and living at 6425 Joliet Rd., LaGrange.

A. T. Faro, '65, is now development engineer for Western Electric at their new Naperville facility.

Leopold Albertin, '56, is now a senior engineer at Westinghouse's Astronuclear Division in Pittsburgh.

Ray Anderson, '61, spent the first five years after his graduation in the Air Force. Upon return to civilian life, Ray accepted a position with the Metallurgical Materials Div. of Texas Instruments in Attleboro, Mass., and is involved in the design, manufacture, and application of clad metals, principally for the automotive industry. Ray is married now, and has a little daughter.

Don Hallahan, '53, has a new address: 170 Edgewood Dr., York, Pa. 17403. Don is with Koppers Company, Metals Products Div., in York.

Ronald P. Carreker, '45, has moved from Schnectady to General Electric's Corporate Headquarters in New York at 570 Lexington Ave. Roland is serving as a consultant in matters dealing with long range planning in the area of materials needs and resources. His home address is: 12 Elmwood Lane, Westport, Conn. 06880.

Gordon A. Smith, '66, has left the manufacturing end of the brass business at Alton, and is now a sales representative for Olin in the Chicago area. Gordy is living in Downers Grove at 2128 Prentiss Dr., Apt. 311, ZIP: 60515.

Praffulla C. Panigrahy, '70, has been appointed Process Metallurgist in charge of vacuum induction melting for Martens and Associates, Oil City, Pa. Martens serves the steel industry as precision remelters.

Frank Fradin, '64, is pinch-hitting for Joe Darby, as group leader in Argonne's Materials Science Div. while Joe is on sabbatical leave at The University, Birmingham, England. Joe had a frustrating time getting his children properly aligned in the English school system, but is now "having a great time."

A strong Illini flavor was given to the 1970 Calumet Chapter of ASM Educational Program. The day-long seminar program on product reliability was arranged by Dick Gaydos, '53, moderated by Bob Bohl, '46, and included Tom Perry, '48, as a panelist.

David File, '66, won his release from the Army on Nov. 6 the hard way; an AK-47 slug through the arm and side during the Cambodian campaign in Vietnam. Dave plans to return to school in February, and finish off work for his Ph.D., estimated to be about six months away. You may remember Dave won the Teaching Excellence Award two years ago as a teaching assistant.

Harry Czyzewski, '41, has a new address: 1966 N.W. Ramsey Crest, Portland 97229. His consulting firm, Metallurgical Engineers, Inc. now keeps a staff of twenty-six busy, and has expanded into the fields of non-metallic materials and ecology.

David Tower, '60, has a new address by virtue of his company moving into a new plant: 345 Field St., Antigo, Wisconsin 53186.

William A. Schmiegelt, '62, who is Superintendent, Nevada Operations, for Milchem Minerals, has a new address: P.O. Box 272, Battle Mountain, Nevada 89820.

Larry Happ, '68, who is working as a welding engineer for the Trane Company has moved to 1221½ Denton St., LaCrosse, Wisconsin 54601. Larry has been asked to serve on a state board to advise on the establishment of a welding technology program in the vocational education program in Wisconsin.