

# NEWSLETTER

## Department of Metallurgy and Mining Engineering

University of Illinois at Urbana-Champaign

February 1977

### Alumni and Staff Are Honored by American Society for Metals

The department was well represented when honors were distributed at the 1976 Awards Meeting of the American Society for Metals last October.

Professor **Paul Beck** received the Albert Sauveur Achievement Award which is presented for pioneering achievements that have so stimulated work that a marked advance in metallurgical knowledge has resulted. Paul's work on the electronic structure of transition elements and magnetic characteristics has led to better understanding of alloying behavior and to many advancements in commercial alloys. Paul has reached the mandatory retirement age, but it is not noticeable because of his health and energy and his continued work at the lab in spite of his retirement status.

### Polymer Program Continues Growth

Dr. Richard Wool has accepted an appointment as assistant professor on our staff and will join us in August. Richard is now on the faculty at CUNY; he received his Ph.D. in chemical engineering from Utah and had a postdoctoral appointment at Colorado. His particular area of interest is the molecular mechanics of polymers using infra-red spectroscopy. Richard is married and has a young daughter.

The department's polymers program is maturing and now has two graduates. Lance Leburn completed his Ph.D. under Ted Rowland, and Timothy Bornemann finished his M.S. under Richard Gaylord. Gaylord has recently received a two-year NSF grant to conduct theoretical and experimental studies on the crystallization of polymers under deformation.

**Amit K. Ghosh**, '68, received the Grossmann Young Author Award for the paper selected as the best published in a specific volume of the *Metallurgical Transactions* by an author under 35 years of age. Amit, who is at GM's Technical Center, co-authored a paper in volume 6A of the *Transactions* dealing with the prediction of the onset of necking in punch-stretching of thin sheets.

**Joe Lane**, '43, became a fellow of ASM in recognition of his work on high-temperature materials. **Charlie Wert** was also named a fellow for his work in diffusion and internal friction and also for promoting closer relationships among industry, university, and government professional communities.

### Alumni Dinners Held Last Fall

Alumni meetings were held at both Niagara Falls and Cleveland last fall, and were attended by small but enthusiastic groups of alumni in spite of our chronic habit of introducing varying degrees of uncertainty in specifying the location of the dinner. We appreciate the help of Ken Boris, '63, of Anaconda in Buffalo, and Sam Leber, '47, of General Electric in Cleveland for their help in local arrangements.

The response from those who could not attend but still wished us to know that they enjoy being kept informed of alumni and departmental happenings was very much appreciated.

We are considering the suggestion of several alumni that an on-campus meeting, perhaps coordinated with a football weekend, might have some interest. We'd like to hear from those

### BERNARD GORDON RICKETTS

Bernard G. Ricketts died December 7, 1976, in Seattle, Washington. Barney had been on the departmental faculty since 1939, except for a brief assignment with the Bureau of Mines in 1944-45. He retired in 1975 and moved to Port Townsend, Washington. Barney and Amy Ricketts were both natives of Washington, and had looked forward for some time to returning there, but he was only able to enjoy just over a year of retirement before his untimely death. Barney was recovering well from an operation intended to increase blood circulation to the brain when the end came very suddenly.

Barney was practically one of the "founders" of the department. He helped develop the curriculum and set the early direction of metallurgy at Illinois. He taught a wide variety of courses, but was the department's principal authority in the area of extractive metallurgy. He earned his B.S. and M.S. degrees from Washington State, and his Ph.D. from Illinois.

Barney is remembered with great affection by more than a generation of graduates, not only for his teaching, but for his example of honesty and integrity and for being a thoughtful and warm person.

Amy Ricketts' current address is RR#3, P.O. Box 107, Port Townsend, WA 98368. We all extend our deepest sympathy to her, and take some small consolation that her two sons, Steve and Mel, now live in the Northwest, and will be able to help their mother during this difficult time.

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who think they would participate in such a meeting and would be likely to attend.

# DEPARTMENT NEWS

## LLOYD IS AA DIRECTOR

Lowell Lloyd, '44, began a two-year appointment last May as a member of the Board of Directors of the University of Illinois Alumni Association. We are pleased that Lowell has received this distinction and that he is willing to serve his alma mater in this way. In his capacity as a director, we are sure Lowell would join us in urging all graduates to become members of the association (some of the dues comes back to the department to help support the *Newsletter*).

An association activity of special interest is the Alumni Family University, a week-long activity in July featuring discussion sessions with key faculty members on topics of current interest plus ample social and recreational events. If this sounds interesting to you, write for further details to the Alumni Association, 227 Illini Union, Urbana, IL 61801.

## HEADS ASM COMMITTEE

Charlie Wert is now chairman of the ASM Education Committee. While ASM has a strong program in the area of technical training through such programs as MEI, its support of university education has not been very strong in recent years. Charlie hopes to strengthen the interaction between the universities and the professional societies during his term of office.

## AWS AWARD

Professor Fred Lawrence was honored by the American Welding Society as a recipient of the Adams Memorial Membership Award, granted in recognition of contributions to education in welding. Fred is now chairman of the College's Materials Engineering Program and will lead the effort to organize equipment, space, research, and courses to make a strong coordinated program in materials engineering.

## MARION RESIGNS

Marion Huber resigned as the department's administrative secretary last August. Marion spent some time

traveling in the Northeast, then to Florida where she stayed several months. She recently returned to Champaign, and plans to sell her home here and move to Indianapolis.

Marion's detailed attention to the needs of the department and its students and staff are greatly missed, and all her friends wish her great happiness in her new environment.

## T. A. READ LECTURE

The T. A. Read Memorial Lecture was presented in the fall of 1976 by Professor Morris Cohen of M.I.T. This was the third lecture in the series which was established by friends in memory of Tom Read who was department head from 1954 to 1966. The lecture, which by tradition is nontechnical in nature, was entitled "Materials and Man's Partnership with Nature." Professor Cohen also gave a technical talk during his visit on new developments in martensite theory.

## HONORED IN JAPAN

Professor Marvin Wayman presented an invited lecture on "Recent Developments in Martensite Transformations" at the First International Conference on Martensite Transformation in Kobe, Japan last May. While in Japan, Marvin was made a fellow of the Japan Society for Promotion of Science.

## UNDERGRAD ENROLLMENT

Our ongoing program of undergraduate student recruitment will soon begin to generate increased numbers of graduates. While this year's graduating class of nine represents the low point of our enrollment a few years ago, our current class of twenty-eight juniors brings joy to the staff as well as recruiters. This class is not only large in number, but it is of high quality. Four of the juniors were recently invited to join Tau Beta Pi. To be chosen as a junior is a singular honor, and for four to be metallurgists is unprecedented. This verifies what we have claimed for some time: vigorous recruiting efforts backed by a financial aid program that emphasizes the real need for

metallurgists pays off in increased numbers and quality.

Our fall enrollments for the past few years have been 46, 50, 65, and 72, respectively. To maintain this level of growth will require continual efforts by the faculty and the support of our friends in industry. We hope you will urge your company to join those who already have accepted the responsibility of ensuring that our program will remain alive and strong. The name of the right person to approach with your recommendation will be of immense value.

## SABBATICALS

Four faculty members have been able to take advantage of sabbatical leaves this year to accomplish goals of professional development. **Joe Greene** is at the Electronics and Devices Lab at Sao Paulo University, Campinas, Brazil, where he is sharing research interests with its staff, including his former student, Len Mei, '75. Joe is also teaching a course on thin films, and plans to rewrite the class notes for publication. He hopes to develop a cooperative relationship with Campinas that will include exchange of staff and graduate students and joint advising of students.

**Neville Pugh** has just returned from a semester at the National Bureau of Standards in Washington, D.C., where he has been collaborating with the staff on new developments and techniques in corrosion research.

**Carl Altstetter** has been awarded a NATO Fellowship to study new scientific developments in NATO countries. Beginning in January, Carl will study sputtering of metals by energetic heavy ion beams, with applications to the design of the containment vessel of fusion reactors. He will be at the Max Planck Institute for Plasma Physics in Munich.

**Adrian deWitte** will spend the spring semester traveling in the United Kingdom, France, and Norway from a base in The Netherlands. Adrian plans to study the response of Western European countries on the economic, political, and social plan to the energy crisis. The information he obtains regarding the impact of conservation and other alternatives will supplement his course on world mineral economics.

# ALUMNI NOTES

Charles Squarcy, '36, is now assistant to the vice-president, steel manufacturing, for Inland Steel in East Chicago.

George Roberts, '38, confesses to having left the field of metallurgy for a nevertheless satisfying career in land surveying. George is justifiably proud of his family of seven sons and three daughters-in-law. Their records in scholastics and athletics include eighteen degrees, a junior college All-American, and other awards too numerous to mention in this small space. For details, contact George at 5720 Allegheny, San Diego, CA 92139.

C. R. Brummett, '40, has moved from Connecticut to 171 Wellingwood Dr., East Amherst, NY 14051. Charles is product manager, metallurgical products, with Union Carbide.

Charles Cook, '44, is section manager, materials technology, TRW, Inc. in Cleveland.

Tom Noggle, '48, was here in June to attend an ERDA Information Meeting held at our Materials Research Lab. This visit gave Tom the chance to visit relatives, his son, Tom (an assistant research engineer in the Physics Department), and have a nostalgic reunion with his old poker club that has been struggling along without his contributions for these many years.

Herman Petch, '51, spent last year at Oral Roberts University studying biblical literature and theology. Howard is now lead materials engineer with Stone and Webster in Boston, but plans to continue his studies. His new address is 112 Peterson Path, Marshfield, MA 02050.

Jim Skarda, '51, was named by ASM as general chairman of the inaugural Materials Show and Conference. Jim works for Rolled Alloys, Inc. in Cleveland, and has been very active in ASM affairs at the chapter and national levels.

Bob Thomas, '52, was in Urbana this year, enjoying the performance of his son who is a student in the School of Music. Bob is with Crucible Steel in Midland, Pa.

Don Sandstrom, '58, has been appointed group leader in the Materials and Technology Group at Los Alamos. In this position, Don supervises the work of over 100 people.

John Ewing, '62, is now a product administrator in the Production and Commercial Planning Department of U.S. Steel's Western Steel Division. John has left the Pittsburgh, Calif., Works to begin his new responsibilities at the division headquarters, 120 Montgomery, San Francisco, CA 94106. John is living at 836 McElroy Ct., Concord, CA 94518.

Howard Aaron, '63, is now central laboratories senior manager for Ford Scientific Lab, 3001 Miller Rd., Dearborn, MI 48121.

Lowell Hoffman, '63, is now vice-president-materials for American Can, 8101 W. Higgins Rd., Chicago, IL 60631. His responsibilities include purchasing, traffic and distribution, and corporate energy and real estate programs. Lowell's wife, Ruth, a graduate of the Indiana music school and an accomplished musician, divides her attention between raising three children and the music program at their local church.

A. T. Wendt, '63, was named superintendent of Griffin Wheel's new railway wheel plant at Keokuk, Iowa. Tom was previously senior engineer for Griffin, a division of Amsted Industries.

Charles Dollins, '64, visited the campus this summer with his family. Chuck is still with Westinghouse at Bettis solving problems of nuclear fuel swelling and densification, while his wife is teaching math at Penn State-McKeesport. The Dollinses recently bought a house in Mt. Lebanon, Pa.

Dave Franklin, '65, who was at the Idaho Falls division of Argonne, is now with Combustion Engineering in Windsor Lock, Conn.

Howard Berg, '65, is section manager for Motorola Semiconductor Products Division in Phoenix. Howard recently received a company award for the development of a soldering process resulting in optimum fatigue properties.

John Bedinger, '66, is now with Bechman Instruments in Fullerton, Calif. He was formerly with General Dynamics in Ft. Worth.

Michael Rechten, '66, is at Argonne National Lab where he is involved in research on ceramic materials related to energy needs. The Rechten live in Naperville, Ill.

John Sturgul, '67, is head of the Mining-Engineering Department at New Mexico Tech at Socorro, NM 87801.

Bashir G. Ahmed, '68, who had been chairman of the Mining and Land Development Department of Belmont Technical College in St. Clairsville, Ohio, is now president, Mine Management Systems in Wheeling, W. Va. The company specializes in human resource development for the mining industry.

Bill Barton, '69, has been promoted from plant metallurgist to plant manager for Mirro Aluminum in Manitowoc, Wis. Bill enjoys his job and the great outdoor life in Wisconsin.

Ron Ebert, '69, is now division metallurgist at Interlake's Newport, Ky., plant.

M.S. Rashid, '69, was the recipient of the first McCuen Award, given by General Motors Research Lab to recognize outstanding achievements of real or potential impact on GM's success. Rashid was honored for his work in developing a high-strength low-alloy steel with improved form-

# ALUMNI NOTES

ability. This steel is already in commercial use. Last fall, Rashid visited his friends here and presented a colloquium describing this new alloy. Rashid has been at the GM Research Lab since 1972, following three years at the AEC Ames Lab in Iowa after he completed his doctorate here.

Chuck Rosenberg, '71, still unmarried to the dismay of his mother and no doubt countless New England ladies, is with Yankee Atomic Electric Company, and recently transferred to the nuclear materials group with responsibility for purchase, conversion, enrichment, and reprocessing of uranium. Chuck is now a director of the Northeast Coast Illini Club, and still working away on an MBA degree.

Jack Helmer, '71, came by the department while in town with his wife, Mary. Jack is another of those rare alumni who did not enter the trade. Jack is managing a group of newspapers and radio stations in Illinois, Wisconsin, Arizona, and California. The Helmers live at 802 E. Jefferson, Effingham, IL 62401.

Richard Little, '76, has joined the firm of Bob Anderson, '50, in Houston, Tex. Bob has a consulting firm specializing in failure analysis. Rich is living at 407 Richey #37, Pasadena, TX 77506.

Phil Roth, '76, accepted a job with Wells Manufacturing Co. in Chicago. Bob Large, '70, is also at Wells. Phil is living at 719A Hinman #1N, Evanston, IL 60202.

Don Zebraskas, '76, is working at the construction site of Commonwealth Edison's LaSalle County Nuclear Station in the quality assurance department. Don's responsibilities include assurance of proper specifications and procedures dealing with welding and use of stainless steel. Don lives at 18006 Chicago Ave., Lansing, MI 60438.

Andrew Forrest, '28, died last July in Florida where he had been living since his retirement in 1971 as chief metallurgist for Republic Steel. Andrew was a graduate of the department by "mutual agreement," since the department had not yet been established when he was a student and he took metallurgy courses as part of his chemistry degree.

We were sorry to hear that Lowell McCreery, '37, died in Tyler, Tex., a year ago October. Lowell had recently retired from LTV Aerospace.

## Address Changes

Since the distribution of the alumni directory last summer, we have received a number of appreciated acknowledgments, as well as a number of corrections. We are especially grateful to Tom Finch, '63, for providing many of the missing addresses. Tom is at the Montana College of Mineral Sciences and Technology at Butte. Address corrections that we received are:

J. H. Setinsky, '24: 419 Reis Ave., Vallejo, CA 94590

R. C. Bertossa, '49: 415 Hillcrest Dr., Seaclyff Beach (Aptos), CA 95003

R. B. Stermon, '50: 1770 Park Terrass East, Atlantic Beach, FL 42233

J. W. Dobbin, '53: Home: 2213 Old Oak Dr., W. Lafayette, IN 47906  
Bus.: Alcoa, P.O. Box 500, Lafayette, IN 47902

S. B. Gafvert, '53: Sundstrand Hydro-Transmission, 2800 E. 13th St., Ames, IA 50010

R. E. Clemons, '55: Home: 312 Panoramic Highway, Mill Valley, CA 94941

Bus.: Bechtel Associates, San Francisco, CA

Dale Holloman, '58: Home: 2500 Stutz Pl., Midland, TX 79701

Bus.: Texaco, P.O. Box 3109, Midland, TX 79701

Paul Steward, '60: 5040 S. Albion Way, Littleton, CO 80121

Gerhard Persson, '61: Home: Klovergatan 6, S-81100, Sandviken,

Sweden

Bus.: Sandvik AB, S-81101, Sandviken, Sweden

M. B. Mirza, '62: Morton Salt Co., P.O. Box 390, Painesville, OH 44077

L. C. Richter, '62: Old Ben Coal Co., P.O. Box 140, RR 2, Oakland City, IN 47660

F. D. Wang, '62: Home: 725 So. Miller, Lakewood, CO 80226

Bus.: Excavation Engineering and Earth Mechanics Institute, Colorado School of Mines, Golden, CO 80401

J. C. Thrasher, '63: P.O. Box 327, Seymour, IN 47274

W. T. Shieh, '63: 12051 Pueblo Path Ave. NW, Uniontown, OH 44685

J. E. Grimes, '64: 2819 W. Lyons, Spokane, WA 99208

A. D. Krug, '64: 209 Sugar Maple Lane, Mounted Route, Clarkes Summit, PA 18411

L. P. Tabaka, '65: Bridger Coal Co., P.O. Box 2068, Rock Springs, WY 82901

Steven Fishman, '66: WR-32, Naval Surface Weapons Center, White Oak, MD 20910

Clinton Heiple, '67: 1785 Deer Valley Rd., Boulder, CO 80303

A. K. Ghosh, '68: Science Center, Rockwell International, P.O. Box 1085, Thousand Oaks, CA 91360

Ronald Kruzic, '70: Home: 941 River Dr., #103, Kankakee, IL 60901

Bus.: Chicago Bridge & Iron, P.O. Box 774, Kankakee, IL 60901

Louis Katz, '70: Home: 632 Payne Ave., Akron, OH 44302

Bus.: Babcock & Wilcox, 20 S. Van Buren, Barberton, OH 44203

Michael Muntner, '71, GTE Laboratories, 40 Sylvan Rd., Waltham, MA 02154

Randy Hopp, '72: P.O. Box 146, LaRonge, Saskatchewan, Canada SOV ILO

## DECEASED

We only recently learned that Martin Crane, '20, died in April 1975.