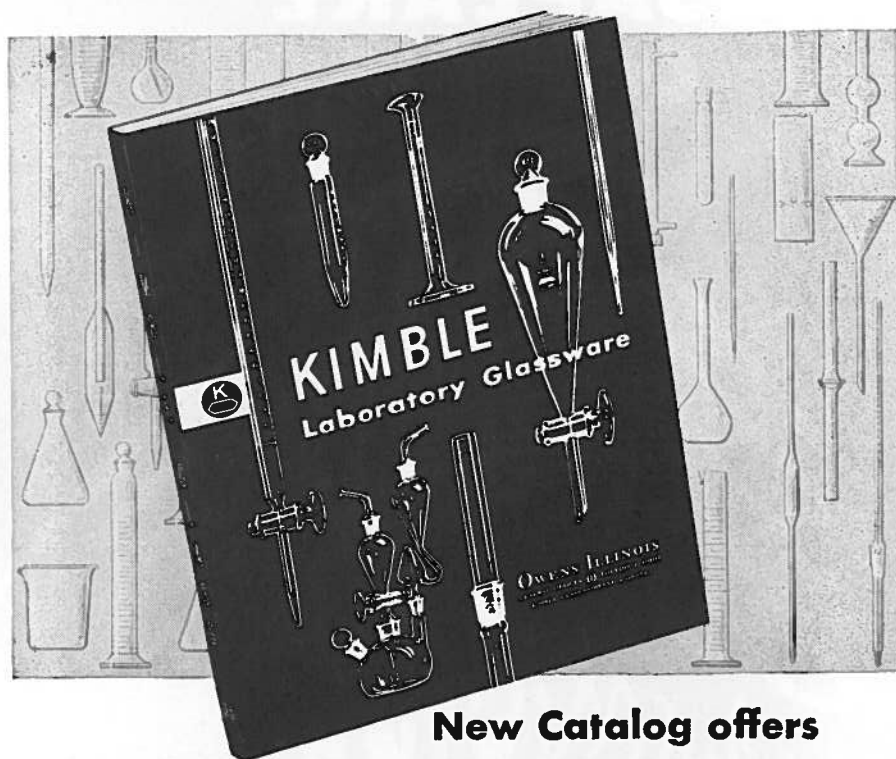


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December 1957



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The Chesapeake Chemist is published each month from September through May by the Maryland Section of the American Chemical Society.

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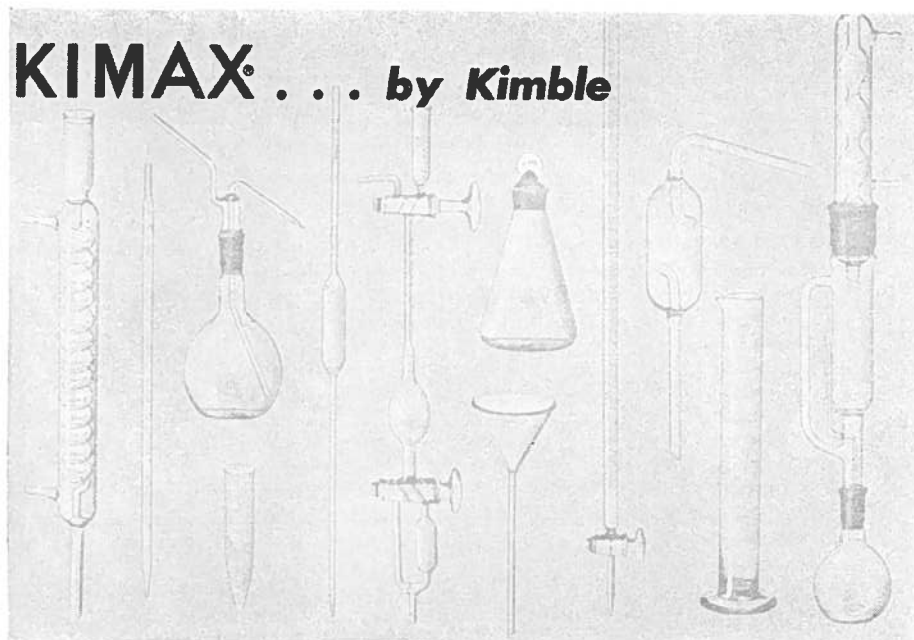
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Our cover picture shows the Saint-Gobain plant at Chauny, France, against a background of the Phoenix. The Phoenix, a mythological bird, was consumed in fire every 500 years, and was reborn from the ashes of its own pyre to live another 500 years. It is part of our ACS emblem, and here symbolizes the rebirth of the European Chemical Industry. (Photo by La Phototheque, courtesy France Actuelle)



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THE DECEMBER MEETING



Date:

Friday, December 13, 8:30 P.M.

Place:

Johns Hopkins University
Remsen Hall, Room 101

Speaker:

Dr. Walter J. Murphy,
Editorial Director
ACS Applied Publications
Director of and ACS News Service

Subject:

The Western European Chemical Industry in the Postwar Period.

Dr. Murphy, as a member of the Technical Industrial and Intelligence Committee of the Joint Chiefs of Staff of the United States Army, had a very unique opportunity at the close of the European hostilities in 1945 to personally see the condition of the German chemical industry and the German chemical research facilities at the end of the war. Operating, not only in Germany, but in England and France, and in close cooperation with large numbers of British chemists and chemical engineers, he obtained a comprehensive picture of chemical production and chemical research of all the major countries of Western Europe, including Great Britain. He was in Europe in 1947, 1955, 1956 and 1957. He witnessed the phenomenal recovery of the German chemical industry and the spectacular progress in research in West Germany. He has had also personal inspection tours of a number of important manufacturing centers in England and France, also Spain and Portugal.

What has happened in research and in production in Western Europe in the 12 years since VE Day will be summarized by Dr. Murphy. He will discuss also present trends in marketing and international relationships among chemists and chemical engineers. Many of the American leading chemical manufacturers are showing a tremendous interest in research being conducted in Western Europe. Many companies now have highly trained technical representatives abroad for the purpose of keeping well informed regarding progress in chemical research in England, France, Germany and other countries in the West European block. Many American chemical manufacturers have formed partnerships with West European producers for the purpose of building plants in this area.

Dr. Murphy was born in Brooklyn and is a graduate of Polytechnic Institute of Brooklyn. For nine years he worked in industry in the fields of research, plant operation, technical sales, servicing and marketing. In 1930 he became managing editor of "Chemical Markets". Later, this publication became known as "Chemical

(Continued on page 6)

NEW SECTION MEMBERS

New Members

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Harvey Galan
James H. Mathewson

Vincent B. Sterk

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Army Chemical Center, Md.
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Johns Hopkins University
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Reisterstown, Maryland

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Food Mach. and Chemicals
Co.
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Sinai Hospital

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Dayton, Ohio
Fort Knox, Ky.
Cincinnati, Ohio
Toledo, Ohio
Western, New York
Alabama
Chicago, Ill.
Louisville, Ky.
Washington, D. C.

(Continued from page 5)

Industries" and in 1939 Dr. Murphy was made editor and general manager. In 1943 he became editor of "Industrial and Engineering Chemistry," "Analytical Chemistry" and "Chemical and Engineering News" and director of ACS News Service. In 1953 he made editor of the "Journal of Agricultural and Food Chemistry".

In 1956 Dr. Murphy was appointed to his present position.

Dr. Murphy is a member of the American Chemical Society, the Society of Chemical Industry, the Societe de Chimie Industrielle, the American Institute of Chemists and other scientific and professional organizations. He is a member of Sigma Xi and Phi Kappa Phi honorary fraternities, Alpha Chi Sigma, professional fraternity and a number of clubs including the Cosmos Club and the National Press Club of Washington and the Chemists Club of New York. He is a consultant to the Chemical Corps and a member of the Advisory Council for Science and Technology of Notre Dame University.

In 1947 Dr. Murphy was awarded an honorary degree of Doctor of Science by Centre College of Kentucky. He has been awarded the Gold Medal of the American Institute of Chemists and in 1953 he received the Honor Scroll of the Division of Industrial and Engineering Chemistry of the ACS.

Dinner:

Johns Hopkins Club

6:30 P.M.

Reservations should be made by Monday, December 9, with Dr. Edward A. Metcalf, 906 Wellington Road, Baltimore 12, telephone VA 3-9577. The price is \$2.50 and preferably paid in advance.

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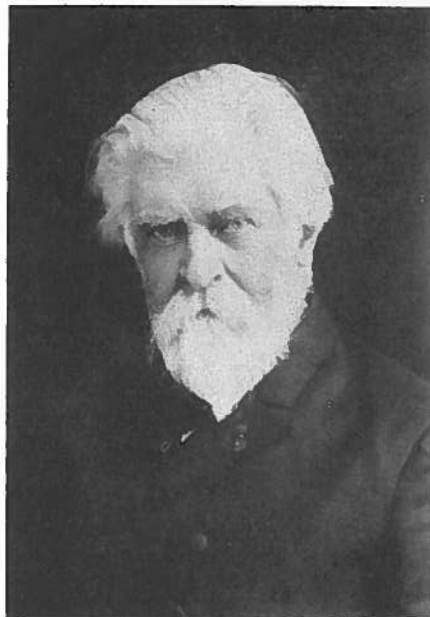
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THE FIRST INDUSTRIAL CHEMIST IN THE UNITED STATES

The first professional chemist to be employed in an industrial plant in the United States worked in Baltimore in 1846, according to the available records.

In 1846 Isaac Tyson, Jr., owner of the Baltimore Chrome Works, applied to Yale University in New Haven, Connecticut for a chemist for his plant. William Phipps Blake, a chemistry student at that time in the Sheffield Scientific School of Yale, was sent to Baltimore to fill this position. Just how long Blake was needed and employed at the Chrome Works is not definitely known. Later, he returned to Yale University to continue his studies in chemistry and was a member of the earliest class graduated from the Sheffield Scientific School.



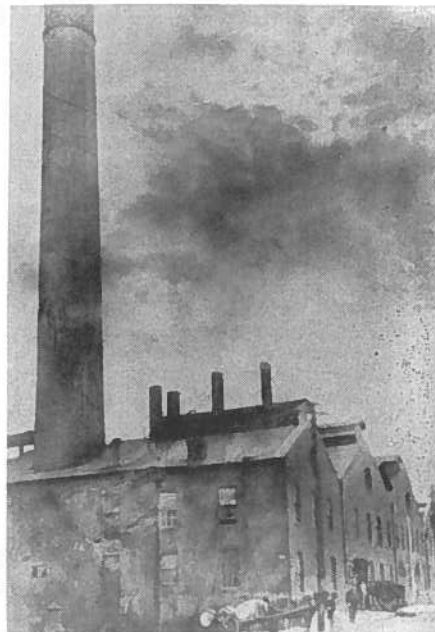
Professor William Phipps Blake was born June 1, 1826 in New York City. After study in private schools of New York he entered Yale University and in 1852 he received the Ph. B. degree. Following graduation he was assistant to the professor of chemistry at the New York Medical College where he taught mineralogy. In 1853 he was appointed mineralogist and geologist for the U. S. Survey in California for a railroad route to the Pacific coast. From 1859 to 1860 he edited *Mining Magazine*. From 1861 to 1863 Blake was mining engineer to the Japanese government. Later, he became Professor of Geology and Mining at the College of California. In 1895 he was appointed Professor of Geology and Mining and Director of the School of Mines at the University of Arizona, Tucson.

Professor Blake was officially identified with the New York World's Fair of 1853, the Paris Exposition of 1867, the Centennial Exposition of 1876 in Phila-

delphia, the International Exposition of 1878 in Paris and the Columbia Exposition of 1893 in Chicago.

Professor Blake received the honorary degree of Master of Arts from Dartmouth College in 1863, of Doctor of Science from the University of Pennsylvania in 1906 and the degree of Doctor of Laws from the University of California in 1910. In 1878 he was made a Chevalier of the Legion of Honor of France. He was a member of the American Philosophical Society, the American Institute of Mining Engineers and a fellow of the London Geological Society.

Professor Blake died May 21, 1910, in the 84th year of his age.



The Baltimore Chrome Works is presently the Mutual Chemical and Dye Corporation, Block Street at Wills, Baltimore, Maryland.

(Continued on page 9)

(Continued from page 8)

With a young man of outstanding ability and in a country abounding with opportunities, chemical technology had its industrial beginning in the United States. Today, more than one hundred years later, chemical technology is a vital part of our highly developed industrial operations.

Cornelia M. Williamson

DR. H. A. B. DUNNING HONORED ON EIGHTIETH BIRTHDAY

Dr. H. A. B. Dunning was honored by his family, friends and associates at a dinner held at the Sheraton-Belvedere Hotel on October 24th in celebration of his eightieth birthday. The dinner was held under the auspices of the Maryland Pharmaceutical Association. Dr. Dunning is a past president of the Association.

The dinner was a fitting occasion to recognize in review the many contributions Dr. Dunning has made to Pharmacy and Education.

In paying tribute to Dr. Dunning, Dr. Robert L. Swain said, "There are men meeting around this festive board who have been guided through troubled waters, helped to meet and surmount difficult situations and made equal to the demands and uncertainties of life, because they have ever remembered, and never forgot, the deathless virtues which Dr. Dunning made mean so much to them back in their distant almost legendary student days.

"My knowledge, indeed, my intimate knowledge of Dr. Dunning's impressive career embraces all that he has been identified with over the past fifty years. I have known him as teacher, professional pharmacist, drug industry leader, philanthropist, association president, educational mentor, exponent of basic economic principles, rugged individualist, patriot and an American to whom fundamental American principles are to be implemented into our way of life and living."

W. Paul Briggs, Executive Director, American Foundation for Pharmaceutical Education, extolled the contributions made by Dr. Dunning in behalf of education. Dr. Dunning made a recent gift of \$50,000 to the American Foundation for Pharmaceutical Education to establish the H. A. B. Dunning Memorial Fellowship.

Dr. Robert Fischelis, Secretary, American Pharmaceutical Association spoke

of the part Dr. Dunning has played in developing the American Pharmaceutical Association and in the construction of the American Institute of Pharmacy. Dr. Fischelis said, "It was in 1940 that Dr. Dunning and the late Gustavus Pfeiffer made a contribution of \$45,000, divided evenly between them, with which to launch the Practical Edition of the Journal of the American Pharmaceutical Association." This bespeaks only small evidence of Dr. Dunning's devotion to Pharmacy.

The festivities were climaxed by the presentation to Dr. Dunning of a leather-bound volume commemorating the occasion.

Dr. Dunning is a charter member of the Maryland Section, ACS and has been an outstanding member since it was established in 1914.

Recent Meetings

The September Meeting of the Maryland Section of the American Chemical Society was held at The Johns Hopkins University in Remsen Hall, Friday, September 27, 1957.

The speaker was Dr. Henry B. Hass, President of the Sugar Research Foundation who addressed the Section on "Sugrochemistry and the World Food Problem". Dr. Hass presented the background of the sugar industry, the use of sugar as a food and the last half of his speech was devoted to the very interesting topic of chemical derivatives of sucrose. There are many types of sucrose derivatives — among them compounds which can be used in detergents, plastics, paints and a multitude of other products. A stimulating discussion followed the speech.

A dinner and reception at the Johns Hopkins Club in honor of Dr. Hass preceded the lecture. The customary social hour and refreshments followed the speech.

Nineteen persons attended the dinner and 56 persons attended the lecture.

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Meeting January 7, 1958

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Bell Telephone Laboratories

Mr. R. H. Brubaker
Western Electric Company



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Alternate Councilors: Edward M. Hoshall, 1957, Richard L. Hall, 1957-58, Raymond L. Costa, 1957-58-59, John W. Gryder, 1957-58-59.

Executive Committee, Elected Members-at-Large: Lester Corrsin, Raymond C. Crippen, Samuel L. Goldheim, Richard J. Kokes, Raymond E. Vanderlinde.

Executive Committee, Past Chairmen (not referred to above):

Donald H. Andrews, W. Mansfield Clark, H. A. B. Dunning, Sr., Fitzgerald Dunning, Paul H. Emmett, Henry C. Freimuth, Wilton C. Harden, John A. Herculson, Edward S. Hopkins, John C. Krantz, Jr., H. Huntley Lloyd, Duncan MacRae, S. T. Powell, E. Emmet Reid, William F. Reindollar, C. P. VanGundy, Channing W. Wilson.

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2. *Chemical Education:* John W. Gryder, Johns Hopkins University, Baltimore 18; HO 7-3300.
3. *Council of Engineers Club Associated:* Edward S. Hopkins, 306 N. Charles St., Baltimore 1; SA 7-5588.
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6. *Hospitality:* Mrs. Joyce J. Kaufman, Johns Hopkins University, Baltimore 18; HO 7-3300.
7. *Membership:* Norman J. Doorenbos, School of Pharmacy, University of Maryland, Baltimore 1; PL 2-1100.
8. *Nominations and Awards:* William H. Summerson, 501 University Parkway, Baltimore 10; TU 9-8787.
9. *Program:* Edward A. Metcalf, C. W. Laboratories, Army Chemical Center, EDgewood 1000.
10. *Publicity:* Winslow H. Hartford, Mutual Chemical Company, Baltimore 31; OR 5-0555.
11. *Radio and TV:* Mrs. Joyce J. Kaufman, Johns Hopkins University, Baltimore 18; HO 7-3300.
12. *Remsen Award:* Alsoph H. Corwin, Johns Hopkins University, Baltimore 18; HO 7-3300.

MARYLAND SECTION NEWS



ACADEMIC

JOHNS HOPKINS UNIVERSITY

Dr. William Mansfield Clark was presented the Honorary Lectureship Award by the Albany Medical College of Union University at a dinner on October 29 at Albany, New York. The award was for "Contributions to mankind in the fields of science, medicine and teaching". Dr. Clark is professor emeritus in the Department of Chemistry, Johns Hopkins University and former head of the Department of Physiological Chemistry at the Johns Hopkins University Medical School.

ST. JOSEPH COLLEGE

Dr. Louis W. Clark, Head of the Division of Science and Mathematics and Associate Professor of Chemistry at Saint Joseph College, Emmitsburg, Maryland, received a \$9300 grant from the National Science Foundation in July to support his research on the thermal decomposition of organic acids. The following three papers by Dr. Clark were published during the past few months in the Journal of Physical Chemistry: "The Kinetics of the Decomposition of Oxalic Acid in Non-Aqueous Solvents" (May, 1957); "The Effect of Toluidines and Xylidine on Malonic Acid" (July, 1957); "The Decomposition of Malonic Acid in N-Substituted Aniline Derivatives and in Diethylcyclohexylamine" (September, 1957).

UNIVERSITY OF MARYLAND

Drs. John C. Krantz, Jr., Edward B. Truitt and Alfred S. Ling of the Pharmacology Department of the University of Maryland presented papers on the pharmacologic properties of Hexafluoroethyl ether (INDOKLON), a new convulsogenic agent at the recent meeting of The American Society for Pharmacology and Experimental Therapeutics, held at The Johns Hopkins Medical Institutions, September 4-7. They also contributed to clinical studies with this drug in the treatment of mental disease with Dr. Albert A. Kurland and Augusto Esquibel of Spring Grove State Hospital. At the same meeting Dr. Raymond M. Burgison and John Hensala presented a paper on "Studies on the Vasodepressor activity of 8-amino-theophylline; Mrs.

Ruth Musser and Dr. C. S. Park gave a paper on "The fate of Trifluoroethyl Vinyl ether (Fluoromar) and (Ethyl Vinyl ether) (Vinamar) in the Animal Body; and Dr. Harold H. Bryant gave a paper on "Further Evaluation of N,N-diethyl-2-pentoxy-5-brombenzyloxyethylamine Hydrochloride as a gastrointestinal antispasmodic."



GOVERNMENT

FORT DETRICK

Robert W. Leberz has been named Chief, Pilot Plants Division, Biological Warfare Laboratories, succeeding Glenwood B. Achorn, who is now Director, Biological Operations, Pine Bluff Arsenal, Arkansas.

Edward Kendra has accepted a position with Artho Pharmaceuticals, Division of Johnson & Johnson Company, Somerville, New Jersey.



INDUSTRIAL

BALTIMORE GAS AND ELECTRIC COMPANY - RESEARCH DEPARTMENT

Miss Sally F. Mount, a recent graduate in Chemistry of Goucher College, was added to the staff in July, 1957. Her present assignment is in X-ray diffraction and spectrographic studies.

Mr. William T. Biedler III, of the graduate department of Chemical Engineering, Johns Hopkins University, was employed during the summer months on studies of flame and gaseous combustion.

(Continued on page 14)

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(Continued from page 12)

MCCORMICK AND COMPANY

In September, Dr. William Herbert Stahl was appointed manager of Chemical Research at McCormick and Company, Inc., Baltimore, Maryland. Prior to his coming to McCormick's, Dr. Stahl was associated with the Quartermaster Research and Engineering Center, Natick, Massachusetts for ten years.

Born in Philadelphia, he received his B.S. degree in Biochemistry from Penn State in 1935, and his Doctorate from Michigan State University in Immunology in 1939.

Dr. Stahl has had a variety of experience in his field having served as a graduate assistant at Michigan State, a chemist with the U. S. Department of Agriculture, a chief chemist for Fairchild Brothers and Foster, and a group leader with Foster D. Snell, Inc., of New York. He was elected chairman of the analytical group of the Northeastern Section of the ACS for 1957-58 season.

His interests lie in general instrumental research in micro and macro-analytical methods and procedures, involving such diverse materials as keratins, cellulose, plasticizers, food odors and flavors.

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Included in Catalog No. 7 are nearly 20,000 laboratory items—the products of over 900 manufacturers—fully illustrated and with current prices. Stocks of these items are maintained at each of the six Will Lab Supply and Service Centers, located at Rochester, Buffalo, New York, Baltimore, Atlanta and So. Charleston (W. Va.).

A copy of this Will Catalog No. 7 may be obtained free by writing to the Will Corporation, Rochester 3, New York on your company letterhead.

Maryland Institute of Metals

January 7 Dr. H. H. Uhlig, MIT
"THEORIES OF
CORROSION"

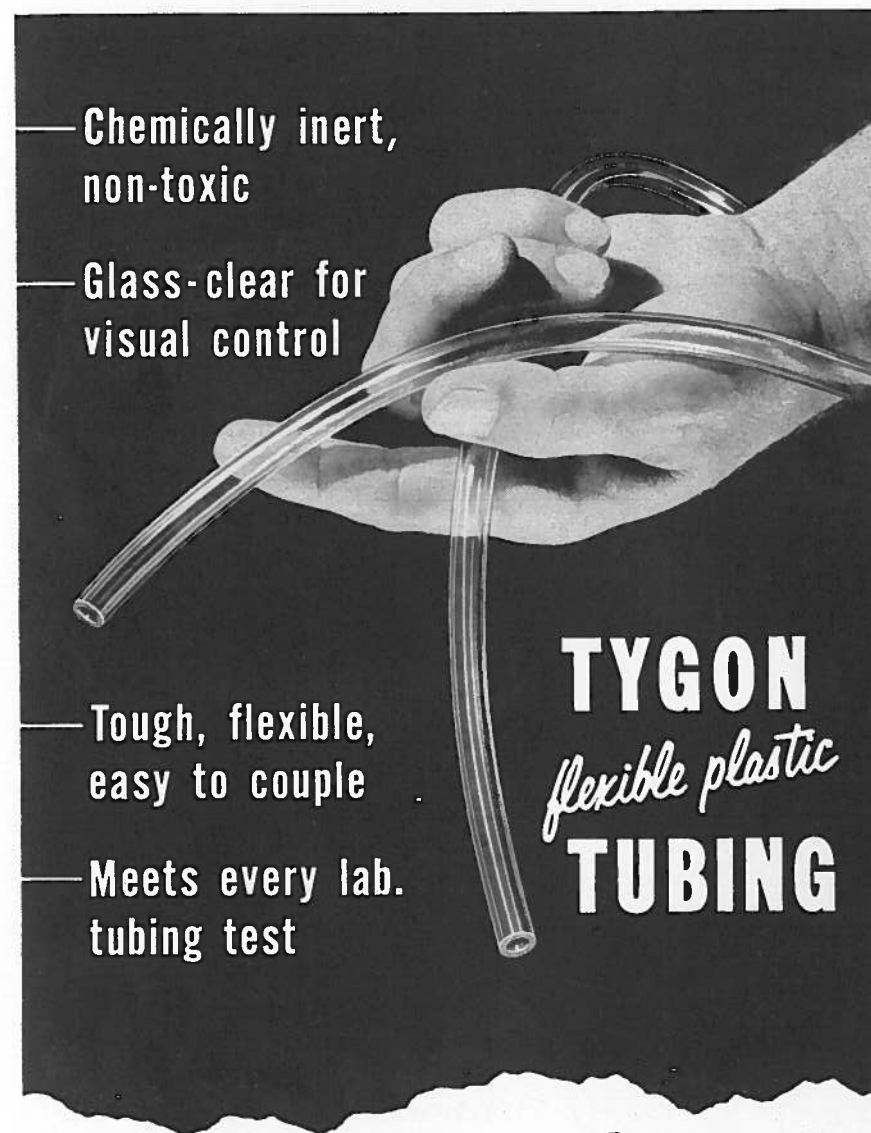
February 4 Mr. F. L. LaQue, International Nickel Company
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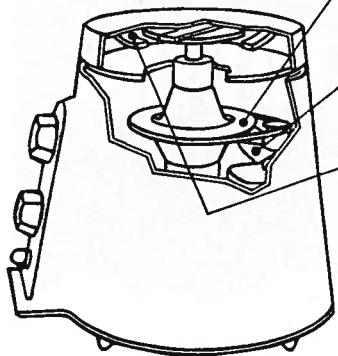
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