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**PUGET
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DIRECTORY ISS

CHEMIST

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

JANUARY, 1950

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January Meeting

Puget Sound Section

AMERICAN CHEMICAL SOCIETY

Time

Friday, January 27, 1950, 8:00 p.m.

Place

Seattle, 131 Bagley Hall, University of Washington

Speaker

DR. RALPH H. MULLER, New York University

Subject

INSTRUMENTATION

COVER PHOTO

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Mount Rainier**

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Regional Meeting A.C.S.

at

RICHLAND

June 8 - 9

1950

JANUARY SPEAKER



Ralph Holcombe Muller

BIOGRAPHY

Ralph H. Muller was born in Philadelphia, Pa., in 1900. His undergraduate studies were at the University of Pennsylvania where he held a City Scholarship. He received a B.S. in Chemistry in 1922 and in the summer of that year entered the Graduate School of Columbia University where he received the M.A. degree in 1923 and the Ph. D. in 1925. At Columbia he held part-time assistantships in analytical and physical chemistry. During the summer of 1923 he visited universities and research institutes on the Continent and in England.

Muller has been associated with New York University since 1924, holding all academic ranks until 1940 when he was appointed Professor of Chemistry.

In 1927, Dr. Muller engaged in post-doctoral research in Physics at the University of Gottingen under James Franck. In 1939, for the fall semester, he was visiting lecturer at the University of Chicago.

In March, 1942, he was appointed Staff Member of the Radiation Labora-

tory at the Massachusetts Institute of Technology where until June, 1946, he was engaged in research and field engineering in micro-wave radar.

Muller is a member of the American Chemical Society, American Physical Society, Franklin Institute, Institute of Radio Engineers, Sigma Xi, Phi Lambda Upsilon, and Alpha Chi Sigma.

In 1931 Dr. Muller received the Silver Medal of the American Medical Association (joint award) for investigations on radium poisoning.

He served in various capacities in the New York Section of the ACS from 1932 until 1946. He was Chairman of the Section in 1941 and Chairman of the Nichols Medal Committee in 1946.

Since 1940 he has served on the Editorial Advisory Board of ANALYTICAL CHEMISTRY and since January, 1946, has been contributing Editor of that journal on the subject of Instrumentation. With Garman and Droz, he is senior author of a monograph on "Experimental Electronics" published in 1942.

Muller's early research interests were in physical chemistry, photochemistry and radiation. For the past fifteen years he has been engaged in research and teaching electronics, and instrumental methods of analysis and control. He is an industrial consultant on instrument design and application.

★ ★

CHAIRMAN'S MESSAGE

To the Members of the Puget Sound Section

The first half of this century was ushered out with Puget Sound Section of the American Chemical Society the largest and most effective in its history. This growth and influence during the latter part of its 40 years of existence was in no small part due to the able leadership of its officers, particularly to the chairmen and program committees.

I wish, therefore, to take this opportunity to congratulate the immediate past chairman, Dr. Robert D. Sprenger, and vice chairman, Wm. R. Moffitt, who

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was also Program Committee chairman, as well as those who preceded them in these capacities, for the splendid work which they have done.

I also extend my congratulations to Mr. Charles V. Smith for the outstanding work he has done as editor and business manager of the Puget Sound Chemist. Due to this efforts and direction the Chemist has been brought out of the red into a modestly secure situation. I further extend my congratulations to the other workers on the Puget Sound Chemist for their contributions toward making the Chemist the outstanding publication that it is.

Every effort shall be put forth toward maintaining and, if possible, improving the functioning of the section during the coming year.

The chairmen and all but one or two of the members of the various committees have been appointed and the acceptances of all but two or three of those appointed have been received. It is believed that those appointed are all very able to do a superior type of work in the committees for which they have been appointed.

While the coming year's program is in the process of formulation it has already been tentatively decided that one of our meetings will again be held in Tacoma. There are some new industries in Tacoma which it is hoped will be available for plant tours. The past Tacoma meetings have been very beneficial and well attended as well as exceedingly enjoyable.

With the fine committee that has been appointed with Dr. P. R. Fehlandt as Chairman it is anticipated that this will be a still better Tacoma meeting. This event will probably occur in April.

Also it is anticipated that the first regional meeting to be held at Richland will be outstanding in both merit and interest. All those who can possibly get away on June 8 and 9 will surely want to attend this conference.

At the close of the year the Puget Sound Section had a total of 443 members which was 16 members more than

we had at the beginning of the year or an increase of 3.75 per cent. It has been reported from the office of the National Secretary that several of our members have resigned. Some of these resignations are for understandable reasons other than because of the increase in dues. A few have and will resign on account of the increase in dues but the great majority of us who are professional in stature will not let this necessary increase for the Society's income affect our relationship with our professional organization.

This, being an election year, is an important one for us to be alert and probably active individually in promoting good legislative ideas and defeating detrimental legislation both locally and nationally as far as the field of science is concerned.

It is the desire and aim of your chairman that our section should render all the services and have the best programs that are possible within our present income. It has been suggested several times during the last three years that we should have local section dues so that we might have more of the services and activities of some of the sections which have that practice. In contrast, it is the feeling of your chairman that we should definitely avoid local section dues.

However, even though our funds are not extensive, with Dr. Lingafelter and his committee arranging the programs I am certain that they will be the best possible.

—Collis C. Bryan.

★ ★

MEMBERSHIP DEPARTMENT

TRANSFERS

From Rhode Island (Providence)

BAIR, Edward J., Dept. of Chemistry,
University of Washington, Seattle,
Wash.

From Mississippi (State College)

DEARING, Willie M., 4547 19th Ave.,
N.E., Seattle 5, Wash.

From Oregon (Salem)

ROSENE, Carl J., P.O. Box 272, Ta-
coma, Wash.

DECEMBER SPEAKERS SUMMARY

Paul C. Cross

EXPLOSION PHENOMENA

Drawing upon his experience during the war as Research Director of the Underwater Explosives Research Laboratory for the Office of Scientific Research and Development, Dr. Cross discussed some unclassified information relating to the fundamental physical phenomena which take place during and after an explosion. The mechanism by which a shock wave conveys energy through the surrounding medium to a target was described qualitatively, as was the process of detonation of the explosive itself.

The conversion of the explosive to explosion products spreads through the explosive charge at a rate of approximately 20,000 feet per second and produces a mass of solid and gaseous products at temperatures of 3,000 to 4,000 degrees centigrade and at pressures of one to two million pounds per square inch. The expansion of this material causes the propagation of a compression or "shock" wave through the surrounding medium at a velocity of 5,000 feet per second or more in water or of 1,100 feet per second or more in air. The shock wave compresses and accelerates outward the surrounding medium and it is the energy thus imparted to the medium which damages most targets.

The expansion of the products overshoots so that the static pressure on the surrounding medium reacts to again compress the explosion products, thus setting up an oscillation. Dr. Cross had motion pictures borrowed from the Naval Ordnance Laboratory which showed these oscillations for several underwater explosions as photographed at the rate of 2,000 or more frames per second.

★ ★

"The reason a dollar won't do as much as it once did is because people won't do as much for a dollar as they once did."

SEATTLE NEWS

A group of 66 chemists and technical people met on December 9, at the Seattle Technological Laboratory of the Fish and Wildlife Service to form the "Pacific Fisheries Technologists."

Harry Beard was elected Chairman and Bruce Sanford was elected Secretary. Those elected to the Executive Committee were Ray Clough, Maurice Stansby, Lyle Swain, Ed. Harvey, Norman Armstrong, Roger Harrison, and Elzie Reed.

Other Chemists present at the meeting were Lyle Anderson, Bob Anderson, Basil Bailey, Gran. Boothby, Jim Brown, Jean Campbell, Bill Carr, Norman Cooke, George Cull, John Dassow, Jim Drury, Lorne Ford, Bob Goettling, Francis Griffiths, George Halpern, Thor Hammerstrom, Ray Hammond, Doug Hansen, Warren Hastings, Don Holdsworth, Ivor Jones, Neva Karrick, Harvey McMillin, Milt Narod, Oliver Nawmerch, James Palmer, George Pigott, Henry Risley, Stewart Roach, Peter Schmidt, John Shackleford, Eugene Shostrom, Russ Sinnhuber, Harlow Snyder, Pete Sunderland, Dirk Verhagen, and Walt Yonker.

★ ★

Three of a number of fellowships at the University of Washington are as follows:

R. E. Davis has been awarded the Standard Oil Company fellowship, and is studying the utilization of lignin. Lloyd Fetterly has been given a grant-in-aid by the Shell Oil Company, for investigation of the separation of fatty acids and esters by formation of addition compounds. Jerry A. Nelson has been awarded the Shell Oil Company fellowship, and is investigating pseudo-aromatic compounds. The three students are candidates for the Ph. D. degree in the Department of Chemistry and Chemical Engineering.

★ ★

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OREGON NEWS

At the December meeting of the Oregon Section of the American Chemical Society the following were elected to serve as officers for the year 1950:

Chairman Dr. Albert W. Stout,
Western Pine Association
Vice Chairman Dr. Wm. N. Shearer,
Lewis & Clark College
Secretary-Treasurer Dr. Max B. Williams,
Oregon State College
Councillor Dr. Pierre Van Rysselberghe,
University of Oregon
Alternate Councillor Dr. David Charlton,
Owner and Director of the Charlton Lab.

—Wm. N. Shearer.

★ ★

George A. Richardson, professor of dairy husbandry and dairy chemistry at Oregon State College, Corvallis, has been selected as the 1950 recipient of the Borden Award in the Chemistry of Milk. The medal address will be delivered before the Division of Agricultural and Food Chemistry next April in Philadelphia. Dr. Richardson has contributed to the knowledge of the chemistry of milk in a number of ways. Studying the problem of rennin coagulation with the use of calcium caseinate-calcium phosphate sols, he showed that rennin produced clotting and that truly emulsoid colloids such as gelatin and lactalbumin actually sensitizes it toward the enzyme system. In the search for antioxidants for milk he investigated a number of types of compounds and demonstrated that certain flavors and flavor derivatives are effective antioxidants for milk, milk fat, and lard. He also studied the stability of carotene in milk, milk products, and the compositional quality of milk.

—Dr. Leo Friedman.

★ ★

OLYMPIA NEWS

The local chapter of Student Affiliates held an "open house" in the Chemistry Department for the general student body on December 16. Many "long-haired" arts students, and sharp-nosed

business administrationists, were surprised to find that a science hall could be interesting, in spite of odors and occasionally loud "pops." Refreshments were served in laboratory ware, and it is felt that the short pre-Christmas affair gave added prestige to the local Chemical Chapter.

Bede Ernsdorff
St. Martin's College.

★ ★

Dr. Delahay Goes to Louisiana State University

The brilliant young chemist and electronics engineer, Dr. Paul Delahay, who has been a research associate at the University of Oregon on the "Corrosion" project for O.N.R. has been made an assistant professor of chemistry at L.S.U. and will assume his new duties on January 1st, 1950.

Delahay's outstanding work in developing an original electrometric method of titration and his development of a portable polarograph first attracted attention to this young Belgian scientist. Later he developed new methods of oscillographic polarography for the research work on corrosion which subject is under investigation at the University of Oregon, and in so doing has made a major contribution to this O.N.R. project.

While Delahay's co-workers at Oregon are pleased at his advancement, they feel keenly the loss of his inventiveness and advice in research. He is scheduled to lead the discussion on advances in Polarography and in Amperometric Titration at the L.S.U. symposium on analytical chemistry to be held in January, 1950.

★ ★

VANCOUVER NEWS

The Vancouver Section of the Chemical Institute of Canada held the fourth meeting of its 1949-1950 season on December 7, 1949, in the Vancouver Vocational Institute, Victory Square, Vancouver, B. C. The topic was "By-Products of the Pulp & Paper Industry," by Dr. R. F. Patterson, Superintendent of Research and Development, Powell

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River Pulp & Paper Company. The topics of previous meetings have been: "Some Aspects of Selenium Poisoning," by Dr. Alex Wood, of the University of British Columbia; "Radiation Chemistry," by Dr. Milton Burton, Head Department of Chemistry, University of Notre Dame; "The Biogenesis of Alkaloids," by Dr. Leo Marion, Department of Chemistry, National Research Council, Ottawa.

The Section held a very successful Annual Christmas Party on December 10th at the Cave Cabaret. Approximately 70 couples were there.

The next regular Institute meeting is to be held on Wednesday, January 18 at 8:00 p.m. at the Vancouver Vocational Institute. The topic is to be "Fundamental Aspects of the Physical Absorption of Gasses by Solids," by Dr. T. L. Hill, Department of Chemistry, University of Rochester. We shall be pleased to welcome any visitors who may be interested. Information may be obtained from Dr. Lyle Swain, Fisheries Experimental Station, 898 Richards St., Vancouver, B. C.

A. J. Shaw

Recording Secretary

★ ★

A. I. CH. E. OFFICERS

The following officers for 1950 were elected at the December 22 business meeting: F. R. Armbruster, Chairman; Frank B. West, Vice-Chairman; W. S. Munro, Secretary-Treasurer; E. G. Locke, Executive Committee Member.

★ ★

A new uranium-bearing ore body has been discovered by Vanadium Corp. of America in Utah. The company has a year to decide the next step in exploiting the deposit. Ore samples are being studied at the Naturita, Colo., plant for development of an extraction process.

★ ★

John Wiley & Sons announced the publication in November of a monograph entitled "Boron Trifluoride and Its Derivatives," by Harold S. Booth and Donald R. Martin.

JANUARY, 1950



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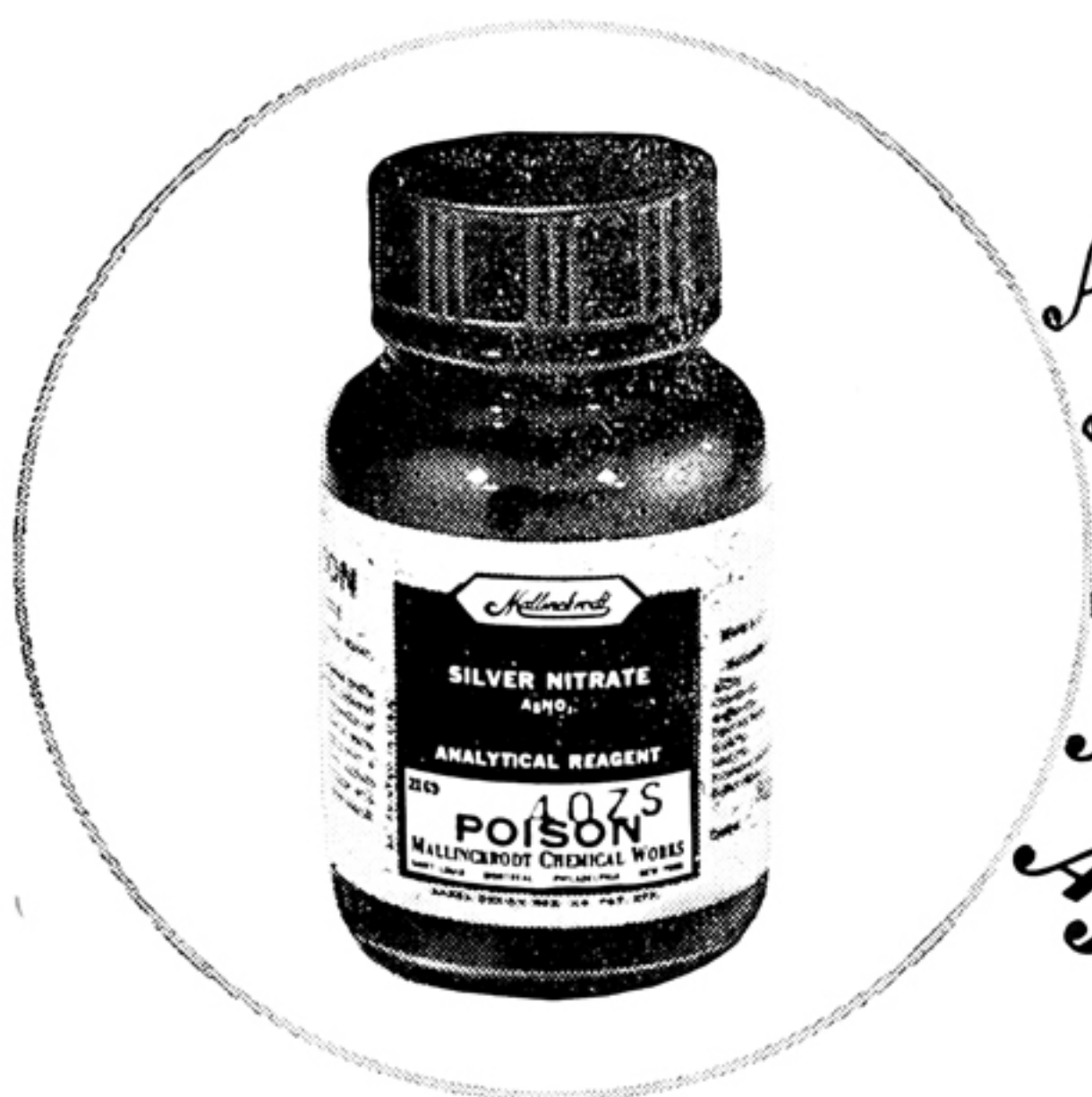
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NOTE: The following is a complete list of the membership of the Puget Sound Section, according to the information available on January 1, 1950. Wherever possible, each member's affiliation has been listed. When the address given is a home address, the affiliation has been listed in parentheses.—*The Editors.*

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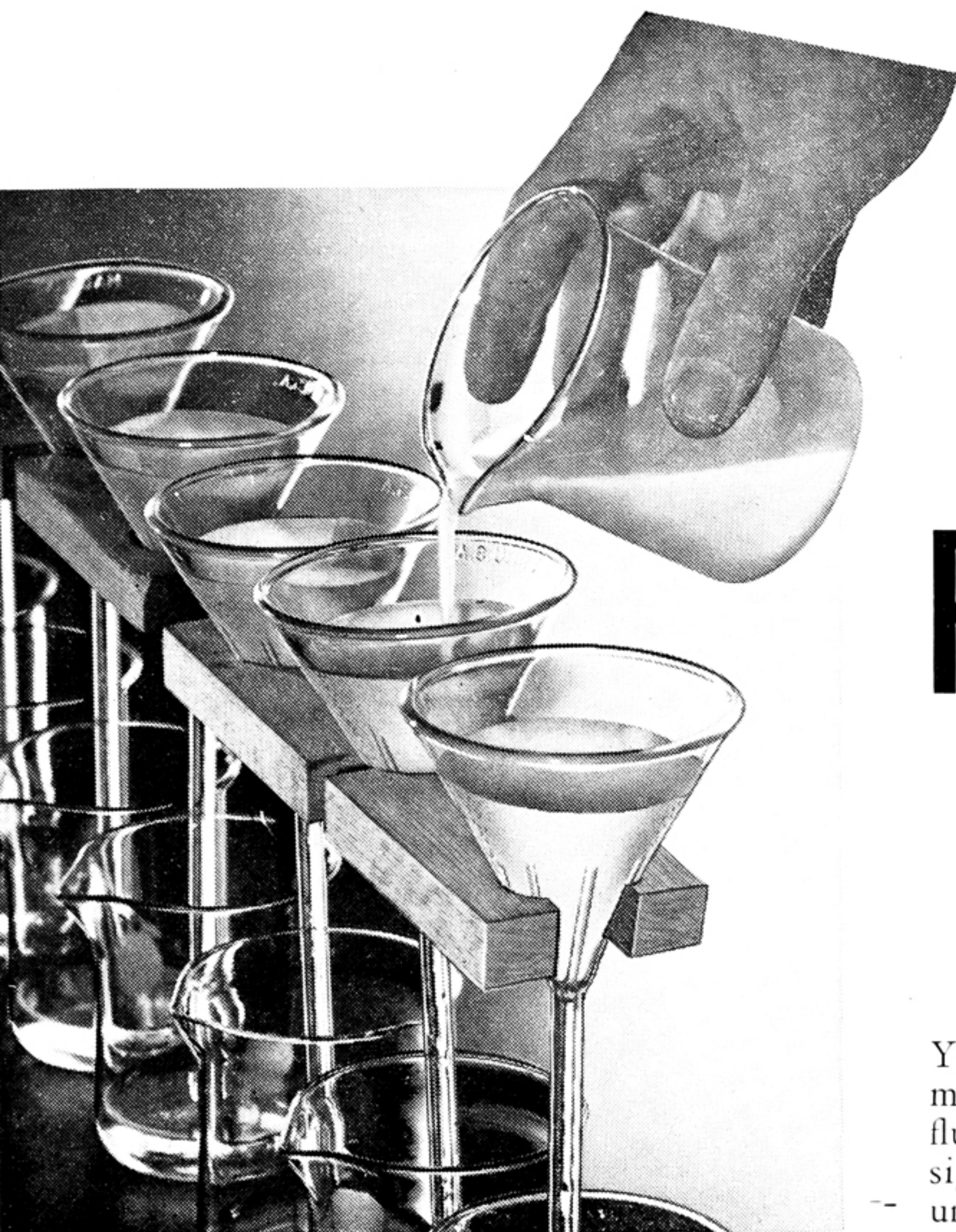
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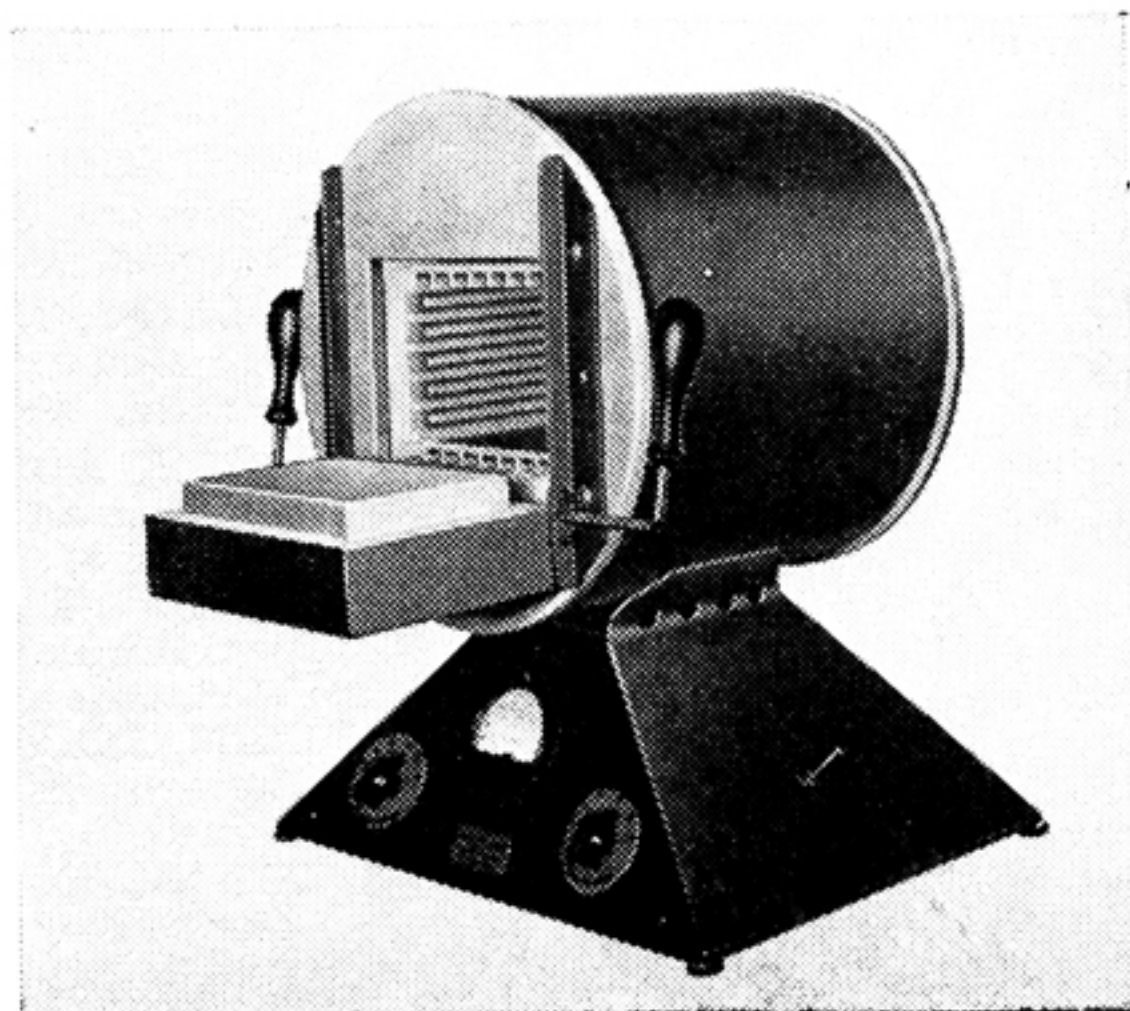
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5. Line contact of furnace on base insures lower temperature in base where instruments are mounted.
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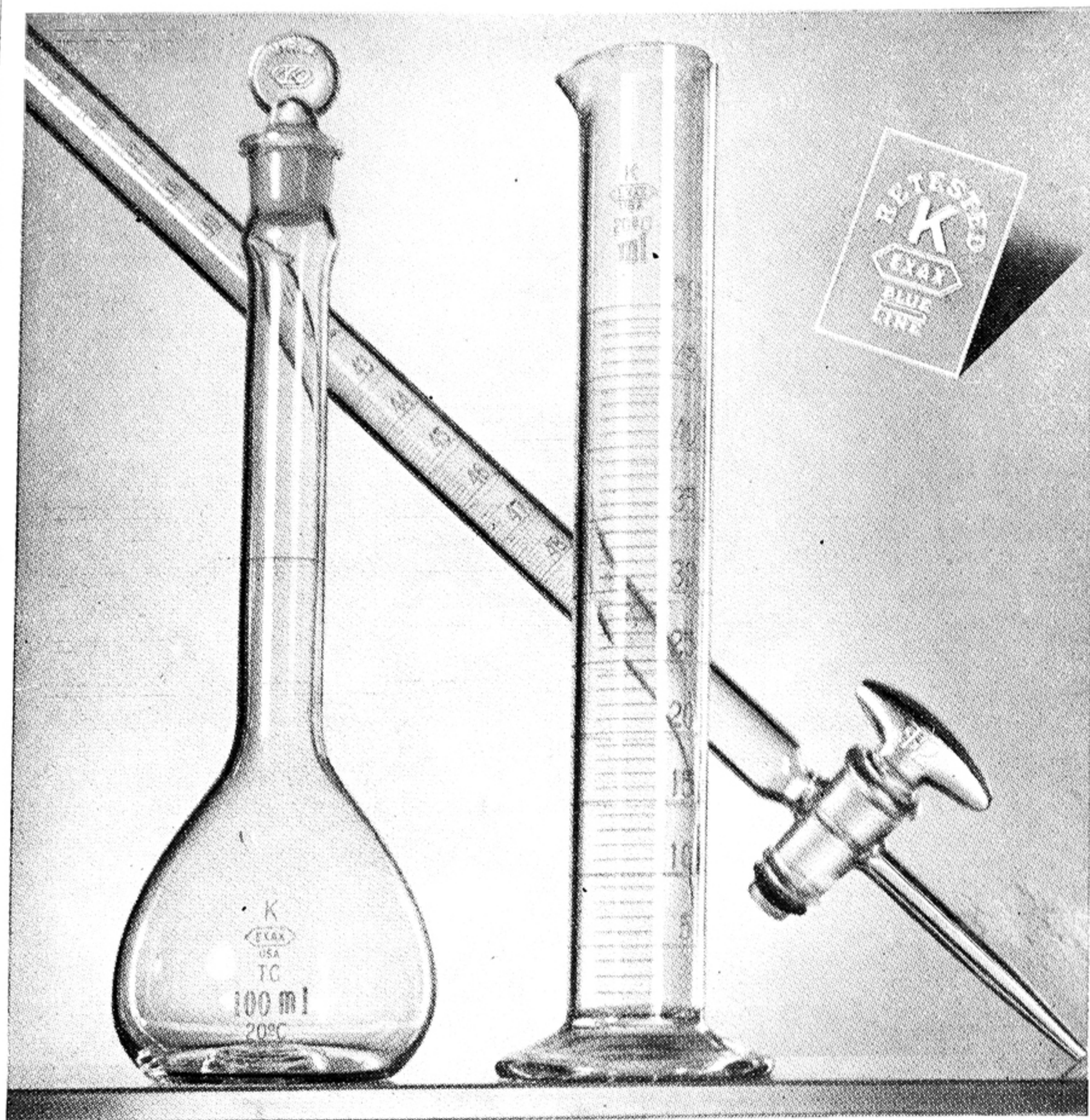
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There once was a young chemist from
Eugene

Who used what's up in his bean

He served on a committee

That helped out the city

And now they've made him dean.

★ ★

Him: "Why is it you have so many
boy friends?"

Her: "I give up."

★ ★

Fashion Note: They're wearing the
same thing in brassieres this year.

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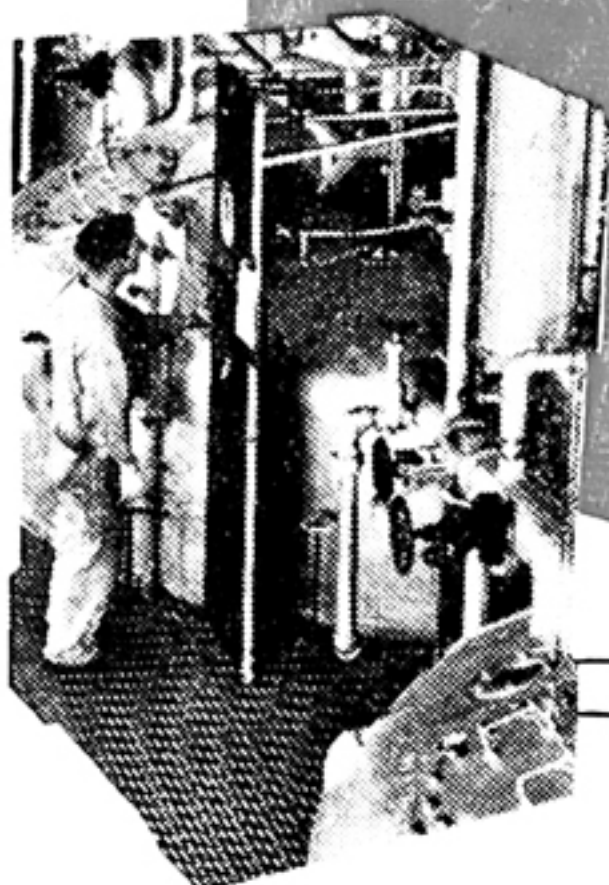
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