



*The*  
**PUGET SOUND  
CHEMIST**

*Bulletin of the PUGET SOUND SECTION  
of the AMERICAN CHEMICAL SOCIETY*

**PLAN TO ATTEND THE REGIONAL MEETING**

**JUNE 8 AND 9**



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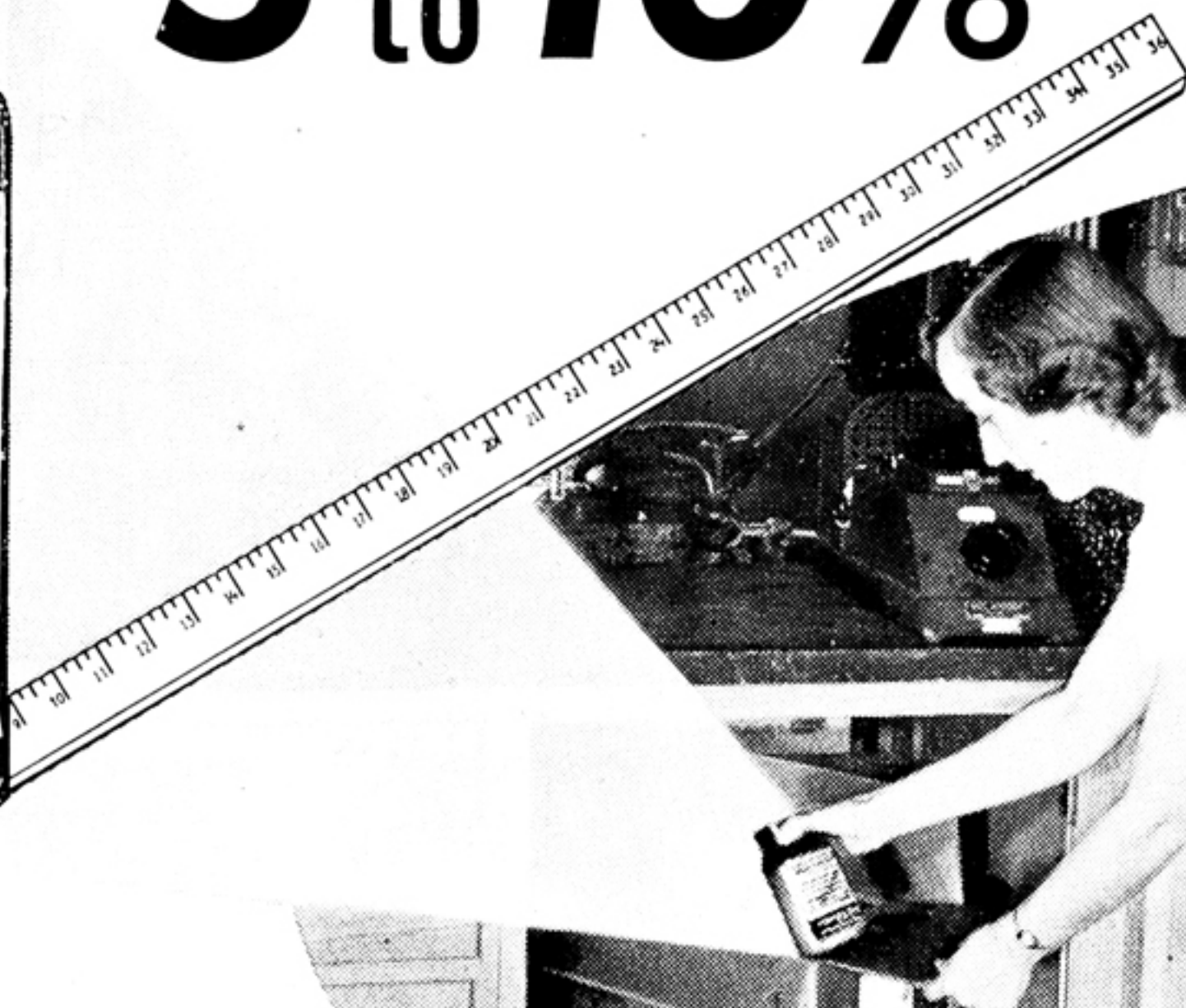
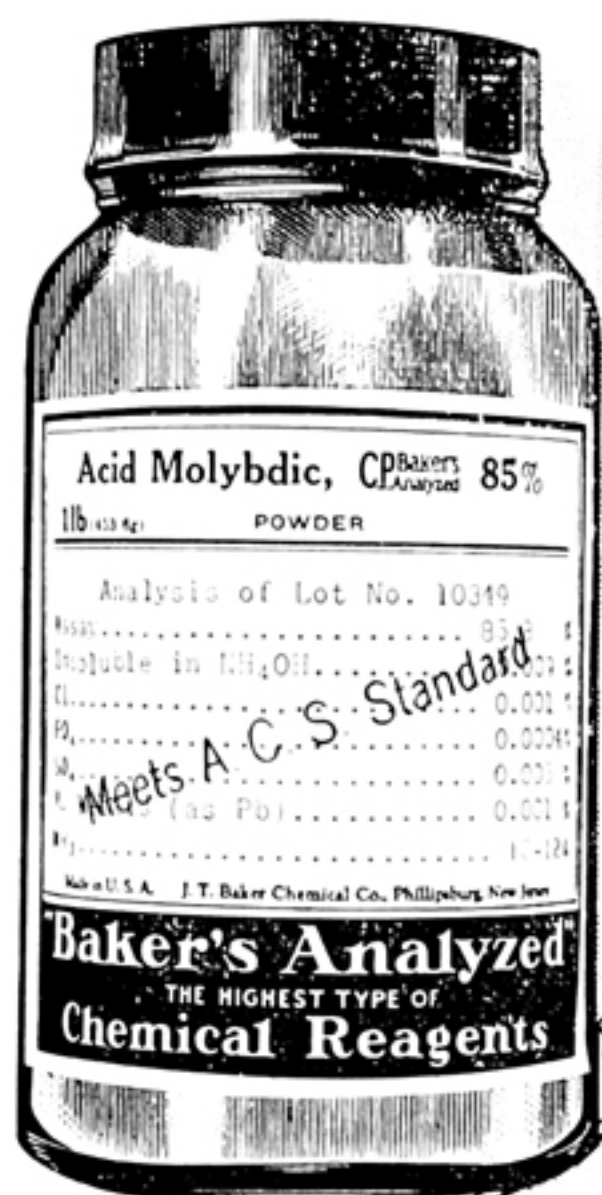
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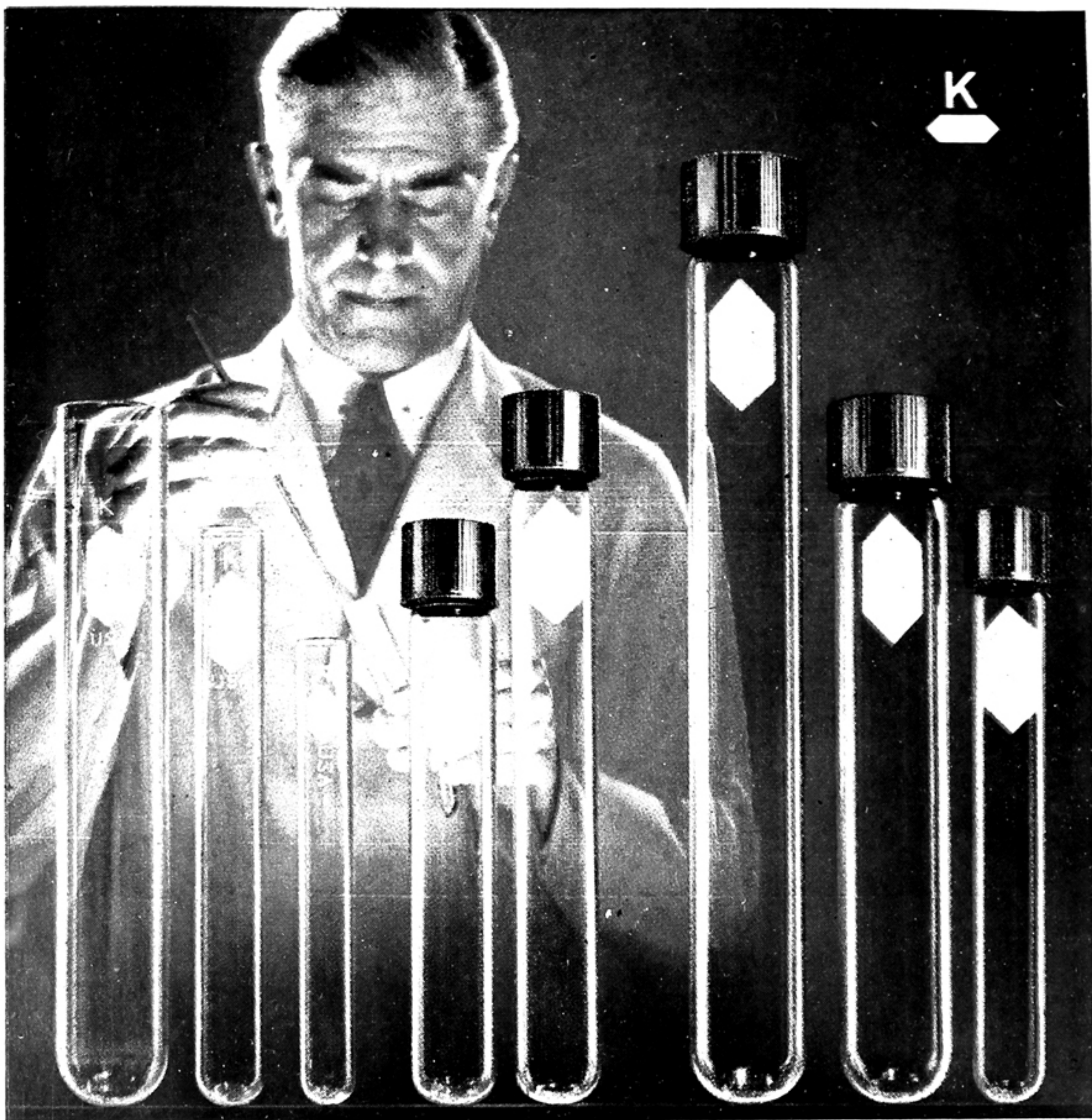
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PUGET SOUND SECTION'S HIGH SCHOOL CHEMISTRY STUDENTS' DAY

Under the general chairmanship of Collis Bryan, the High School Chemistry Students' Day, held in Seattle on April 20, was a great success from all standpoints. Even the weather committee did a wonderful job.

Thirty high school students, as interested and well-bahaved a group as you could ever hope to find, representing high schools from Bellingham to Raymond, inspected Bagley Hall, toured the plants of Northwestern Glass Co., Bethlehem Pacific Coast Steel Corp., and the Crescent Manufacturing Co., and, in the evening, listened attentively to a series of very entertaining and informative talks given by Professors G. H. Cady, U. of W.; R. J. Robinson, U. of W.; R. D. Sprenger, College of Puget Sound; W. R. Carmody, SeattleU.; R. W. Moulton, U. of W., and Mr. Bob Thomas, American Marietta Co.

Each student was accompanied during the entire day by one of the members of the Section, serving as his sponsor. From

where your reporter was standing, it was hard to decide who was having the most fun, the students or the sponsors.

The fine program for the day was the result of considerable work by the committees, consisting of Collis Bryan, Herb Erickson, Cliff Higer, Mrs. Sarah Siegel, Fred Armbruster, Mrs. W. R. Gailey, Burton Dietzman, Harlow Snyyder, Francis Owen, P. C. Cross, Al Wakefield, Quintin Peniston and Ed Lingafelter.

The expenses for the programs and for the students' meals were covered by contributions from the following:

Lyle Branchflower Company, Monsanto Chemical Company, Northwest Lead Company, Scientific Supplies Company, Seattle Pacific College, Seattle University, Mr. C. M. Sturkey of Seattle Gas Company, and The Tower Company.

It was only through their help in this way that the program was made possible.

The students who attended and the members of the section who served as sponsors were as follows:

STUDENT	HIGH SCHOOL	SPONSOR	ORGANIZATION
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—E. C. LINGAFELTER



## EVERETT NEWS

Russell Bernard, Everett Junior College chemistry student, has been honored by the Chemical Rubber Company of Cleveland, Ohio, for his high score on the American Chemical Society's standard achievement test. He will receive a Handbook of Chemistry and Physics with his name engraved on it.

Young Bernard, a graduate of Everett High School and now a freshman at E.J.C., ranked in the nineteenth percentile based upon national norms for the test.

Second place in the competition for a high score on the chemistry test went to Conley Smith, a graduate of Roosevelt High School in Seattle. Third high was a tie between Harold Slocum of Everett and Ingrid Greenaa of Wilmington, California.

Last year's winner of the chemistry contest was Miss Martha Samuelson of Cashmere, Washington. Norma Weiss of Snohomish placed second.—C. E. Higer

## SEATTLE NEWS

John Schackleford of the Lyle Branch-Lower Company, representing the Puget Sound Section, recently gave a lecture to the American Institute of Electrical Engineers to aid electrical engineers who are taking the state examination for licensing as Professional Engineers.—J.C.D.

## OREGON NEWS

A. H. Kunz, head of the Department of Chemistry at the University of Oregon attended the 119th meeting of the ACS in Chicago.

\* \* \*

Meyer Horowitz, candidate for Ph.D. at the University of Oregon, has been granted a post-doctoral fellowship by the National Foundation for Infantile Paralysis to continue his work under F. J. Reithel on enzymes and tissue metabolism. Mr. Horowitz attended the Boston part of the 119th ACS meeting.

\* \* \*

Ten students led by R. B. Dean and



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D. F. Swinehart attended the TAPPI meetings in Longview, Washington, on April 13.

—R. B. Dean

## ST. MARTIN'S COLLEGE NEWS

The St. Martin's Chapter of Student Affiliates of the American Chemical Society held its annual Open House in the Chemistry Department on Monday, April 16, from 9:30 to 10:10 a.m. Approximately 150 visitors, representing students and faculty from all departments in the College, found the various exhibits and demonstrations both instructive and interesting.

A model jet motor, capable of producing  $2\frac{1}{2}$  pounds of thrust, drew general attention, because the noise of its operation indoors could not be overlooked.

Another interesting exhibit was an array of instruments showing the development of colorimetric methods of analysis from the simple Nessler comparison tubes to the up-to-date Beckman spectrophotometer. Colored slides portrayed the principles of operations of the latter. Color indicators and electrometric methods of acidity measurement were shown, and a practical demonstration of the pH meter showed the coffee that was served to be definitely acid, with a pH of 5, if taken black, and slightly less acid (pH of 6), if buffered with cream. Coca-cola proved to be still more acid (pH of 2).

Dr. Frank Horan, advisor to the group, directed the students in their preparations for the very successful affair.

\* \* \*

On April 12 the chemists of St. Martin's were guests of the Shelton plant of Rayonier, Inc., during a tour of the research laboratories and pulp manufacturing plant. Mr. Cropper, manager of the Shelton branch of the corporation, made the arrangements for this instructive event.

\* \* \*

At the invitation of Mr. Jacquot, manager of the Dupont works of the Dupont Company, thirty-five students from St. Martin's College, accompanied by Drs. Horan and Bede Ernsdorff of the chem-

istry staff, viewed the showing of the beautiful and inspirational film, *The Dupont Story*, at the Lakewood Theatre on April 17.

—Bede Ernsdorff

## DR. C. F. GERALD LECTURES

Dr. C. F. Gerald, assistant professor of chemical engineering at the University of Washington, recently completed a series of three lectures in Shelton on fundamental statistical concepts and the application of statistical significance tests to experimental data. The lectures were attended by about 60 technical men from Shelton, Grays Harbor, Port Angeles, and even from Seattle.

The large attendance reflects the current widespread interest in the use of statistics in industrial process control and experimentation. Arrangements for the lectures were handled by Art Walton and Otto Goldschmid.

—Dean W. Balkema

## P.L.U. PACIFIC COAST CONVENTION

The annual convention of the West Coast Phi Lambda Upsilon Chapters will be held in conjunction with the Regional A.C.S. meeting on June 8 this year. P.L.U. members from Washington State, Oregon State and other West Coast colleges have been invited. Saturday, June 9, will be devoted to a P.L.U. business meeting, guided tours of Bagley Hall, Seattle points of interest and a banquet. It is planned to cap the weekend's activities on Sunday with small group get-togethers taking advantage of the fishing and other recreational facilities of the Puget Sound region.—T. R. Beck

## CORNELL SYMPOSIUM

A symposium on "Complex Ions and Polyelectrolytes" will be held at Cornell University on June 18 to 21. Those who wish to preregister or desire further information may write to Dr. H. A. Scheraga, Cornell University, Ithaca, New York.—Jim Drury.



A black and white advertisement for Tygon Laboratory Tubing. The background is a dark, abstract shape. In the upper left, a white tag with the text 'TYGON Laboratory TUBING' is shown. A line with a star at the end points from the tag to a small star on the dark background. To the right, a large, clear, flexible tube is shown, with a graduated scale visible on its side. In the foreground, several loops of the tubing are coiled together.

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## **SEATTLE WELCOMES YOU — ATTEND THE REGIONAL MEET**

Plan to attend the regional meeting to be held in Seattle, City of Flowers, on June 8 and 9. More than 40 interesting papers will be presented by men from industry and from the colleges and universities of the Pacific Northwest. Some of the most recent developments in biochemistry, engineering, industrial, physical, inorganic and organic chemistry will be discussed. A symposium on the teaching of physical chemistry has also been arranged for those whose interests are academic.

Bring your wife, family and colleagues. Plant trips and a Ladies' Program have

been arranged.

For those who are interested in the non-technical aspects of technical meetings, the unusual recreational opportunities of the area are available. Every member of the Puget Sound Section will be glad to assist those who wish to try salmon fishing, boating or mountaineering. The complete program will be published in the June P.S.C.

The time to send in your reservation to the hotel or motel of your choice is now.

Let's not be too quick to blame the human race for everything. A great many species of animals became extinct before man ever appeared on earth.

# **Welcome to the REGIONAL MEETING**

## **JUNE 8 AND 9**

## **University of Washington**



## SEATTLE — CITY OF FLOWERS



—Courtesy Washington State Advertising Commission



## AUTUMN'S CHEMISTRY

From hedgerow, lawn and wooded hill  
Departs the summer's chlorophyll;  
The elms and hickories lose their green  
And glow instead with carotene,  
While sumacs, maples redden in  
A burst of anthocyanin—  
And "Time" is moved to tell its clients  
The reason why in terms of science.

When the deciduous (non-evergreen) leaf begins to die and disintegrate, the molecules of its unstable green pigment, chlorophyll, disappear. Its departure reveals the yellow carotene and xanthophyll which have been present but masked by the green all summer.

Red appears in maples, sumacs and some other plants when slowdown of the trees' physiological processes prevents carrying away of the sugars (made with the aid of the fading chlorophyll out of air, water and light) from the leaves. These sugars turn into a class of glucosides called anthocyanins, which are bright red and purple pigments. Anthocyanins develop best where 1) soil is acid, 2) nitrates are scarce, 3) light is abundant. Thus the light-bathed tips of maple leaves and the sunny sides of apples are reddest.

By late autumn, the yellow and red pigments, following the green, disintegrate in the leaves. This final unmasking reveals the dull brown tannins, which are chemically so stable that they remain till the leaf rots to powder. Unlike flower pigments, which have the vital function of attracting pollen-spreading insects and birds, autumn's colorful foliage is just a meaningless, glorious show.—Time, 1946.

—Copyrighted, Time, Inc.



## A.C.S. MEMBERSHIP

Our national headquarters has adopted a new application form for membership. E. C. Lingafelter, Jim C. Drury, and the members of the membership committee will be glad to supply the proper application blank to prospective members.—Clifford Higer, Everett Junior College, Everett, Chairman of the Membership Committee.

## FORECASTING . . .

Wunce they was a king, who hired him  
a prophet to prophet him his weather.

And one day the king notioned to go fishin', but the best fishin' place was nigh onto where his best gal lived. So he aimed to wear his best clothes. So he called in his prophet and he says, "Prophet, is hit a comin' on to rain?"

And the prophet says, "No, king, hit hain't a comin' on to rain, not even a sizzle sozzle."

So the king put on his best clothes and he got his fishin' tackle, and he started down the road toward the fishin' place, and he met a farmer riding a jackass. And the farmer says, "King, if ye hain't aimin' to get yore clothes wetted, ye'd best turn back for hit's a comin' on to rain a trash-mover and a gulley washer."

But the king drewed himself up and he says "Farmer I hired me a high-wage prophet to prophet me my weather and he 'lows how hit hain't a comin' on to rain, not even a frog-duster."

So the king he went fishin' and hit come on to rain, a cloud-bister and a chunk-mover. And the king's clothes was wetted, and they shrunked on him, and the king's best gal she seen him and laughed, and the king was wroth, and he went home, and he throwed out his prophet, and he called him the farmer, and he says, "Farmer, I throwed out my prophet and I aim to hire you to prophet me my weather from now on'ards." And the farmer says, "Shucks, king, I hain't no prophet. All I done this evenin' was to look at my jackass' ears. Fir if hit's a comin' on to rain his ears lops down, and the harder hit's a comin, the lower they lays, and this evenin' they was a layin' and a loppin'."

And the king says, "Go home, farmer, I'll hire me the jackass."

And that's how it happened. And the jackasses have been a holdin' down all the high-wage govemint jobs ever since!

—T. L. Swenson



## CIVIL DEFENSE

In line with General Marshall's prediction that the best we can hope for is at

**PUGET SOUND CHEMIST**



least ten years of tension, Mayor Impelleteri of New York City is directing the organization of 500,000 civil defense volunteers. Reduced to Seattle dimensions, about 30,000 are needed here. Members of the Section cannot and must not be allergic to civil defense. An interesting treatise on the subject is "Civil Defense for National Security," Report to the Secretary of Defense, 1947; (Supt. of Documents, \$1.00). The **Ivory Tower** is an anachronism: participate in civil defense.—G.L.P.

## BOOK REVIEW

"Yet no matter how one looks at it, the advent of the H-bomb constitutes the greatest threat to the survival of the human race since the Black Death.

One is reminded of a dinner conversation in Paris in 1869, recorded in the **Journal** of the Goncourt brothers. Some of the famous savants of the day were crystal-gazing into the scientific future a hundred years away. The great chemist Pierre Berthelot predicted that by 1969 "man would know of what the atom is constituted and would be able, at will, to moderate, extinguish, and light up the sun as if it were a gas lamp." (This prophecy has almost come true.)

Claude Bernard, the greatest physiologist of the day, saw a future in which "man would be so completely the master of organic law that he would create life artificially in competition with God."

To which the Goncourt brothers added the postscript: "To all of this we raised no objection. But we have the feeling that when this time comes to science, God with His white beard will come down to earth, swinging a bunch of keys, and will say to humanity, the way they say at five o'clock at the salon: 'Closing time, Gentlemen!'"—C. V. Smith

—From **The Hell Bomb** by Wm. Laurence

## MISTAKES

When a plumber makes a mistake he charges double for it.

When a lawyer makes a mistake, it

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means more business.

When a doctor makes a mistake, he buries it.

When a judge makes a mistake, it becomes a law.

When a preacher makes a mistake, nobody knows the difference.

But when an editor makes a mistake, good night!

While game hunting in the meadow a fellow was amazed to see a girl flash before his eyes, closely followed by two men in white. A third man in white, carrying a bucket of sand, brought up the rear.

"What's the deal here?" the hunter asked the bucket carrier.

"This girl just escaped from the asylum and we've got to catch her," the man panted as he trotted by.

"But, I still don't see why the sand."

"Oh," he puffed, "I caught her yesterday. This is my handicap."



# THE MODERN DOCTOR

## CHEMICAL

I am the very pattern of a modern Doctor  
Chemical;  
I send to all the journals my remarks and  
views polemical.  
I've studied mathematics till I think in  
terms vectorial  
And scorn the plodding soul who seeks  
for molecules pictorial.  
The calculus is food for babies; I love a  
complex variable  
And state a simple law in terms the lay-  
man thinks are terrible.  
I can talk of relativity and space-time for  
month or more  
And integrate elliptically to terms of the  
n plus 1)th or more—  
And yet my hand and mind are seized  
with palsy and paralysis  
When I essay that dreadful task—a  
chemical analysis.  
I've mastered all of physics, wave me-  
chanics and spectroscopy;  
There's not a Planck or Einstein whose  
sage remarks are lost to me.  
I know the private life of each electron  
'round the nucleus,  
Their inner quantum numbers and their  
interactions dubious.  
I outdistance Bohr and Summerfeld in  
matters theoretical,  
Anticipated Goudsmid with electron spins  
heretical—  
And yet my heart is filled with woe and  
dismal trepidation  
When in the lab I'm faced with an or-  
ganic preparation.  
I surpass Debye and Huckel in their

# EMPLOYMENT

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views interionical,  
Dumbfound LaMer and Sandved with  
equations not canonical;  
I can compute the entropy from levels in  
the molecule  
And fill the Journal page by page with  
integrals symbolical.  
I calculate reaction rate and heat of ac-  
ti-va-tion  
And any other quantity expressed by an  
e-qua-tion—  
Yet still the old time chemist shakes his  
sides with vulgar merriment  
When I confess how I detest performing  
an experiment.

—The Chemical Bulletin



Dr. Jones slipped in the well;  
He died without a moan.  
He should have tended to the sick  
And let the well alone.

—Del-Chem Bulletin



The legendary King Canute tried to  
sweep back the tide.



A hen is only an egg's way of making  
another egg.—Samuel Butler.

\* \* \*

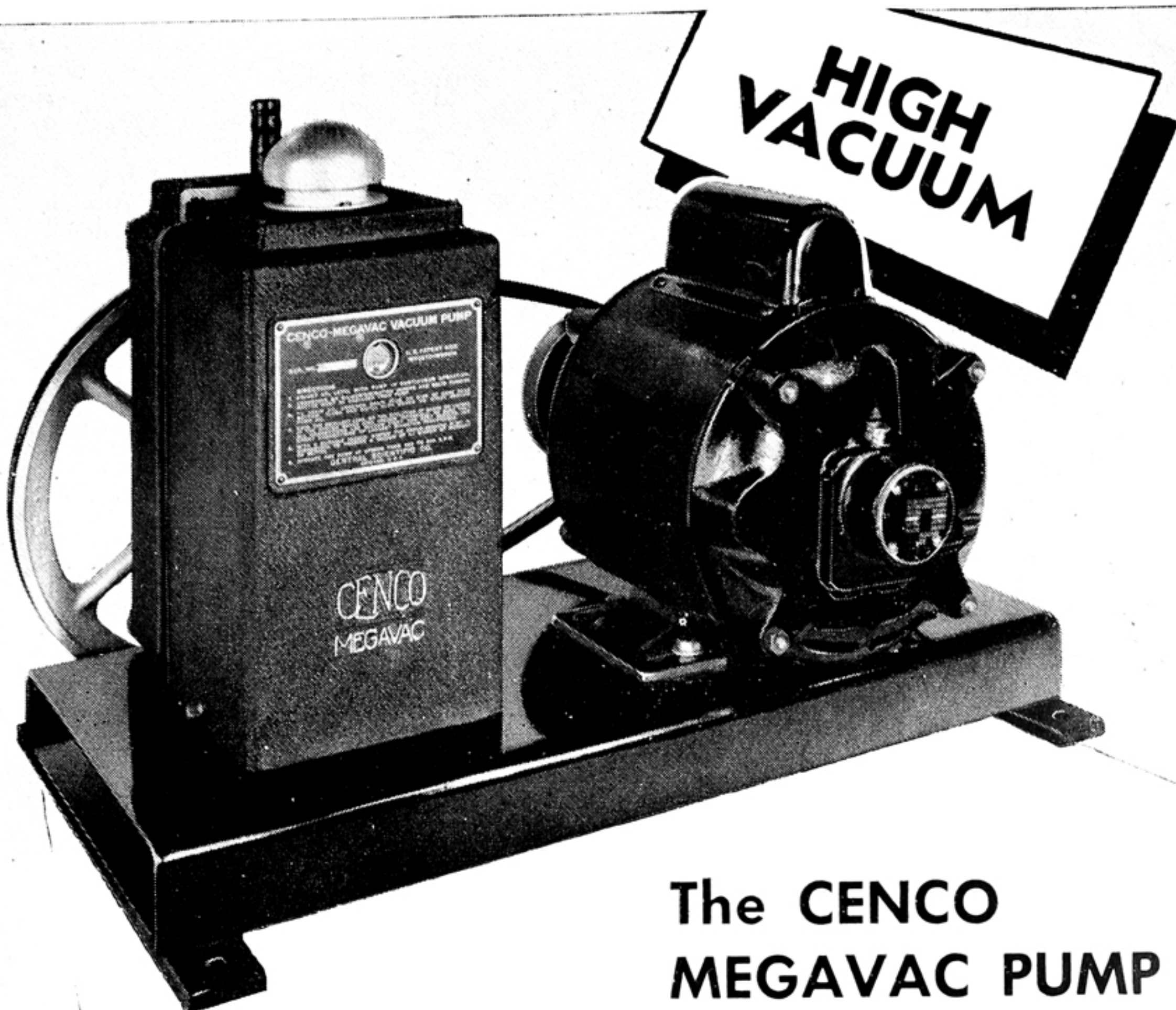
The cost of a thing is that amount of  
life which must be exchanged for it.

These friends make the PUGET SOUND CHEMIST possible . . .  
Please Patronize Them

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