



The Crucible

Published Monthly
by the

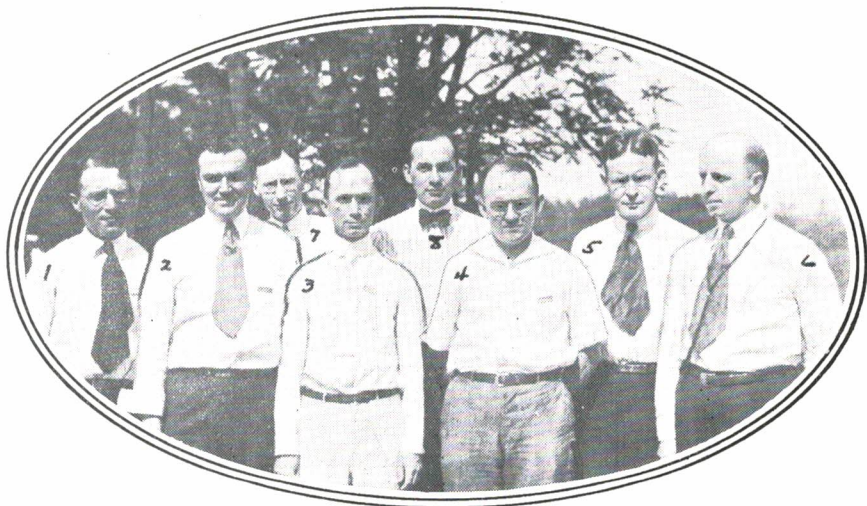
PITTSBURGH SECTION OF THE
AMERICAN CHEMICAL SOCIETY

VOLUME V.

JUNE, 1922

NUMBER 6.

Fourth Annual Outing OF THE PITTSBURGH SECTION A. C. S.



AT SANDERS

On the Freeport Road near Aspinwall
SATURDAY, JUNE 10th, 1922

The one Big Get-Together Day for Chemists

Use the Reservation Card enclosed

MERCURY SEALED

FLEMING ABSORPTION TUBE

for CARBON COMBUSTION

U. S. Patent 261538

Besides possessing all the advantages which made the regular Fleming Bulbs the most popular for CO_2 determination by the combustion method, it has the following remarkable added features, making it

AUTOMATIC

1. It is *Automatically* sealed and maintains a perfect atmosphere of oxygen within the apparatus.

2. Perfect weighing conditions. There are no inlet or outlet valves to manipulate, as these are *Automatically* operated by the mercury traps. The tube is disconnected and weighed without further handling. Hours later the same atmosphere is in the apparatus; its weight is the same and it can be used again without running a blank.

3. Eliminates errors for the following reasons: (a) Oxygen cannot escape, air cannot enter. This also applies to moisture. (b) No danger of entrapping oxygen under pressure.

4. Cuts down the number of weighings, speeds up the work of the laboratory and therefore lessens the cost of each analysis made.

5. The apparatus will absorb over 500 combustions when operating on 1.5 grams sample of .50% c. steel.

Remarkably accurate results are obtained with this apparatus.

Two Styles

EIMER & AMEND

FOUNDED 1851



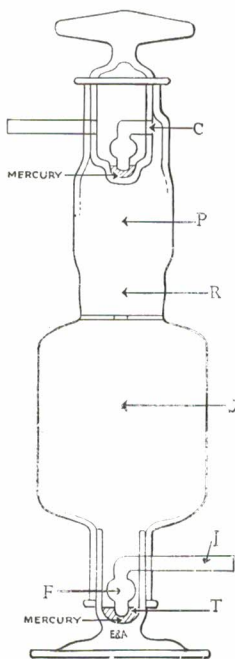
NEW YORK

PITTSBURGH

WASHINGTON, D. C.

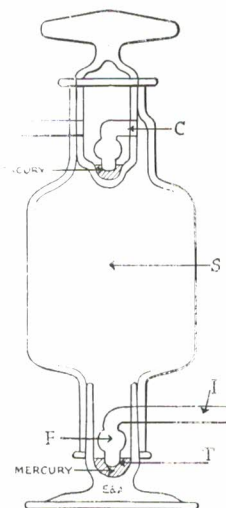
PITTSBURGH BRANCH

4048 Jenkins Arcade



No. 1271/2

Double Chamber Type for use with P_2O_5 and Soda Lime



No. 1271/3

Single Chamber Type For use with ASCARITE



The Crucible

Published Monthly by the
PITTSBURGH SECTION OF THE
AMERICAN CHEMICAL SOCIETY

*The Paper with the Triple Linkage
Goodfellowship Co-operation Loyalty*

Volume V, No. 6

JUNE, 1922.

10 cents per copy

HOW ABOUT IT?

Every man who belongs to the Pittsburgh Section has a part to play in the Annual Convention of the American Chemical Society which will be held in Pittsburgh next September.

The June Outing will be the last meeting of the Section before the Convention, and as the program has now been worked out, we propose to take just a little time at Dinner to explain just what you are to do to make the Convention a success.

Of course you are proud of the fact that for the first time in our history, we are to have the Annual Meeting in Pittsburgh, but merely being proud won't help to entertain our visitors. You can do something which will contribute directly to the pleasure of our guests, so come to the Outing and hear just what it is.

Some men have already done a lot of work in making the preliminary arrangements, and they have a lot more work which they propose to do. There is no way that we can better encourage these men just now than by coming to the Outing and showing that we are interested and are willing to back them up.

So you see that in addition to having a good time at the Outing your presence there will evidence your loyal co-operation in the important affairs of the Section at this time.

THE OUTING

WHEN

The Fourth Annual Chemists' Outing will be held on Saturday, June 10th, 1922, from 2:30 to 8 o'clock.

WHERE

It will be held at Sanders', which is located on the Freeport Road, just east of Aspinwall.

This is the road which parallels the railroad and the Allegheny River, and Sanders' place is just east of the Filtration Plant and adjoins it.

HOW TO GET THERE

The first thing that you do is to fill out the return card enclosed herewith, sign it, enclose your check, put a 2c stamp on the envelope and mail it; this you should do now, before you forget it.

To get there you crank your Jitney and shimmy out through Highland Park

and cross the Sharpsburg bridge, turn East along the main street, and keep going until you pass the Filtration Plant, and there you are at Sanders.

If you do not have a Jitney, then call up some fellow who has and tell him you will act as a shock absorber for him.

If you go by street car, take Sharpsburg and Aspinwall car and get off at Aspinwall Station. Here you can take the Tarentum & Harmarville car which passes Sanders' door, or you can walk to Sanders' in about 15 minutes.

Those going from down-town can save time by taking a train at Union Station over the Conemaugh Division and getting off at Aspinwall; there are about six trains during the afternoon.

OUTING PROGRAM

The program this year has been arranged so that there will be many features in which every member of the Section can take part.

2:30—The fun begins—Get your "name-plate" and pin it on your shirt because you will sure take your coat off.

3:00—First Mush-Ball Game.

4:30—Second Mush-Ball Game.

During the afternoon there will be a Ball Throwing Contest, at a target, for which prizes will be given.

Also a Horse Shoe Pitching Contest by elimination matches, for which prizes will be given.

There will be some other stunts which you will learn of when you get there.

Any man can enter all these events as they will not be strenuous, but have been arranged to suit the average member who is not a young and strenuous athlete in training.

If you have never played mush-ball it is time that you do. It is played like regular baseball except the ball is a soft one and the bat quite small. The field is about one-half the regular size. No stoved fingers, no sore hands, no "bean" balls, no strenuous pitching, no masks, chest protectors or shin guards, just some good exercise and a lot of fun.

6:30—Chicken and Waffle Dinner during which we will have some stunts which we do not propose to tell about in advance but you can rely on the Committee for this. We will have smokes, gang songs, stories (short, but sweet), etc., etc.

At 8:15 the entire program will be finished and you can tell her that you will be home early this year.

Sanders has a dance on Saturday evenings, so we must vacate the dining room by 8:30, in order that they can prepare for it.

The price of \$1.75 (note the reduction) covers the afternoon's fun, the Chicken and Waffle Dinner and the entertainment during dinner.

The entire amount goes to pay for the dinner and all the balance is a bonus provided by the Committee.

As a member of the Section it is your privilege to bring your friends to this Outing. It is suggested that each member ask several of the men with whom he works.

Now don't be a "stiff," come on to this Outing, come early, bring several friends with you, take off your coat, speak to every man there (his tag tells his name), enter the sports, relax and thereby not only enjoy yourself, but add to the enjoyment of the others.

OUTING COMMITTEE

C. G. Fisher, Chairman

G. N. Reis H. E. Slocum

Field Sports— H. E. Slocum, Chairman, R. B. Bridges, C. J. Rodman, R. F. Porter, W. F. Faragher, W. V. Brumbaugh, J. T. Ritz, Chas. Stimple, B. H. Miller, John Douglas, H. H. Craver, Theo. Thomas.

Indoor Sports— G. N. Reis, Chairman, G. W. Jones, W. A. Hamor.

Cordiality— J. O. Handy, Chairman, H. C. P. Weber, Alex. Silverman, E. R. Weidlein, E. S. Stateler, H. V. Churchill, A. C. Fieldner, E. W. Tillotson, Earl Blough, J. H. James, E. J. Casselman, W. D. Brown, C. M. Johnson, C. H. Viol, C. G. Snyder, K. K. Stevens, F. J. Montgomery, J. J. Boyle, C. F. Allison, A. E. Blake, R. H. Brownlee, D. M. Buck, C. B. Gibson, H. F. Sill, Max Hecht, H. A. Kohman, Alex. Loy, J. R. McTaggart, C. S. Palmer, C. G. Schluederberg, Kelvin Burns, R. H. Bogue, G. Stegeman, F. W. Sperr, Jr., C. C. Vogt, R. H. Uhlinger, F. W. Rittman, E. W. Felkel, W. U. C. Baton.

Raffle— R. E. Zimmerman, Chairman, C. E. Nesbitt, G. H. Mengel.

Prizes— W. D. Boder.

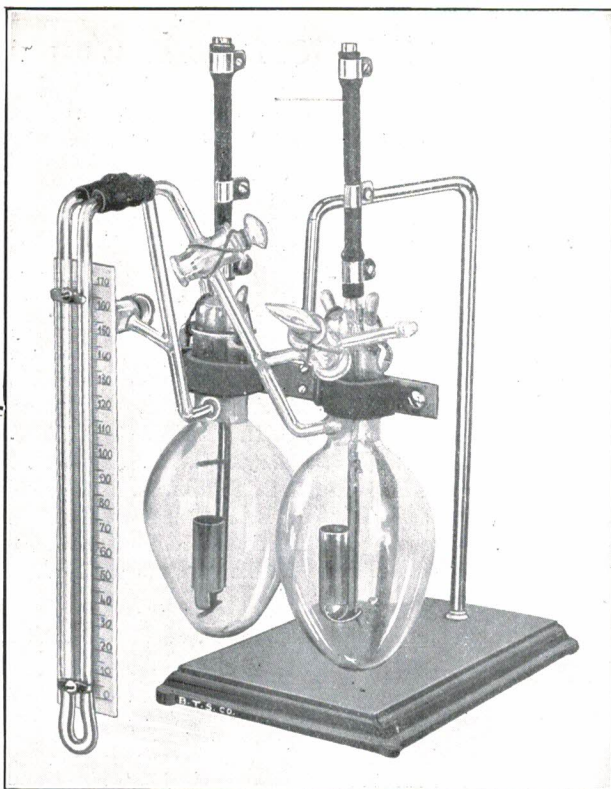
Registrars— Edw. Dillinger and Alvin Fedor.

THE SECTION'S OUTINGS

The first Outing of the Section was held in 1919 and the picture of the handsome men shown on the front cover of this issue, was made from a snap-shot at that Outing. They are: 1, A. C. Fieldner; 2, C. G. Fisher; 3, Earl Blough; 4, C. E. Nesbitt; 5, W. A. Hamor; 6, R. H. Brownlee; 7, A. V. Bleininger; 8, R. E. Zimmerman.

Can you remember the days before these Outings were started, when the ice was two feet thick and we all had to wear ear-muffs at the meetings to keep from having our ears frost-bitten, when every man was Mister, Professor or Doctor, and no one spoke to another without a written introduction. When we speak of "the good old days" we do not refer to those days in the Pittsburgh Section. These are the good old days for us.

These Outings have done much to thaw out the ice and promote the real wholesome spirit which has made the Section what it is today and the Outing on June 10th will do much to get the fellows better acquainted so we can co-operate to make the September Meeting of the Society what it should be.



PATENTED

Davis Vapor Pressure Apparatus

FOR

The Measurement of Vapor Pressures From Solids or Liquids.
The Measurement of Low Vapor Pressures.
The Quantitative Estimation of a Vapor in a Gas.
The Control of Light Oil Recovery Plants.
Lecture Experiments.
Quantitative Measurements in Laboratory Classes.
Special Research.

Price \$37.50

Literature upon request

Burrell Technical Supply Co., Inc.

1704-8 Fifth Avenue, PITTSBURGH, PA.

Laboratory Apparatus and Chemicals.

PITTSBURGH SECTION
of the
American Chemical Society

OFFICERS**Chairman**

J. O. Handy
Pittsburgh Testing Laboratory

Vice Chairman

E. R. Weidlein
Mellon Institute of Industrial Research

Secretary

E. S. Stateler
Mellon Institute of Industrial Research

Treasurer

C. E. Nesbit, 1314 Penn Ave.,
Wilkesburg, Pa.

Councilors

H. V. Churchill	E. W. Tillotson
A. C. Fieldner	H. C. P. Weber
C. G. Fisher	R. E. Zimmerman

Program Committee

C. J. Rodman
Westinghouse Research Laboratory

Entertainment Committee

C. G. Fisher
717 Forbes St.

Library Committee

A. C. Fieldner
U. S. Bureau of Mines

Industrial Museum Committee

H. C. P. Weber
Westinghouse Research Laboratory

Employment Committee

K. K. Stevens
Carnegie Institute of Technology

THE MAY MEETING

The meeting was called to order at 8:10 P. M. Thursday May 18 1922, in the Bureau of Mines Lecture Room.

The minutes of the previous meeting were read and approved.

Under Committee reports E. R. Weidlein, Chairman of Committee on Convention Funds, reported total pledge cards received to date pledged \$2700. He reminded the Section members that he was an optimist and hoped the remainder of the necessary funds would soon come in. Chairman Handy pointed out that we would have to go to the industries for funds if the membership fell down on its end of the fund raising.

Secretary Stateler read a letter from our newest section, the Northern West Virginia Section, pledging their support in our efforts to make the convention a success.

H. C. P. Weber, Chairman of the Committee on Industrial Museum, reported that the Carnegie Institute had agreed to provide space for housing the exhibit. He also made a plea for suggestions and exhibits for this Museum of Pittsburgh's specialties.

C. G. Fisher, Chairman of the Entertainment Committee, reported on preliminary arrangements for the picnic.

The paper of the evening was read by Dr. H. C. P. Weber on "The Chemistry of Electrical Insulation Materials." The talk was well illustrated by lantern slides, intended to show where insulation was used, and drew special attention to the problems of the insulation engineer in transformer oils, armature slot insulation and commutator insulation. The limitations of even our best materials, mica and shellac-mica plate were pointed out. The main purpose of the paper was to show the wide scope of materials used, the properties desired and the research yet to be done.

With a vote of thanks to Dr. Weber the meeting adjourned at 9:35 P. M.

The Crucible

published monthly
by
The Pittsburgh Section

Editor

E. J. Casselman
Westinghouse Research Laboratory

Manager

H. H. Craver
Pittsburgh Testing Laboratory

WESTINGHOUSE RESEARCH LABORATORY NOTES

R. H. Wynne, who was loaned temporarily to the shop, has been returned to the laboratory in as good condition as when he went away.

Weber, Rodman and Casselman frequently have their heads together on some kind of a deal. The common assumption is that A.C.S. business is second only to Westinghouse in their minds, but no one knows what they're really up to.

THE MAY DINNER

Outside it was raining everything from H_2O molecules up to beer steins full. Inside sixty-four members of the local section dined a la William Penn (only it was at the Bureau of Mines) and enjoyed themselves better than they have done at any previous dinner. Weber had a haircut specially for the occasion. Fieldner blew in looking like he had just come from a winter at Palm Beach. Doc Vogt left his dentifrice studies at the Mellon Institute long enough to come over and eat with the bunch. Doc James, who will be more or less responsible for how we eat at his Carnegie Tech Cafeteria at the convention, came in to observe the general tactics in use by the chemist of getting around the eats. And as for Stateler, he showed signs of interest in entertaining a large group of people that we never observed before.

The festivities accompanying the dinner were the result of a plot by Joe Rodman to get the crowd feeling good, so that they wouldn't mob Edgar Thompson Nesbit when he came around to collect for the dinner. Joe had it all figured out that music was the best thing to tame 'em down. So he got the Carnegie Tech Collegiate Six (only there were three of them) to play during the chow. With all due respect to the Philadelphia Symphony Orchestra and Sousa's band, these fellows were stars. They played with such feeling while we were eating that Kellogg, who is naturally musical, and Hightower, who isn't, and Jones and Tillotson couldn't help chewing in perfect syncopation. Between the courses when we couldn't eat, the Sextette led us in some choral singing.

Now maybe you think a chemist is one thing and a singer is another and no catalytic agent converts one into the other because they just aren't built that way. Well they all must be like the chemist whose wife heard him at work in the laboratory one day and said, "A chemist ought not to use such language," whereupon the laboratory boy said, "Guess he was a man before he was a chemist." And besides, Heinroth Gaul Rodman was leading the singing.

Besides this there were renditions by the Westinghouse Acoustical Research Corporation, locally known as the Research Club Quartette, showing the results of a long series of investigations in harmonics, minor fifths, com pah pahs, tottle ootle toots, etc. As the writer was part of this outfit he need not com-

ment on it. He did notice rather set expressions on the faces of Churchill, Blough, Bridges and the rest of the Al Uminum boys and supposes they felt they ought to be in on the music somewhere with their world famous Jazz Orchestra. We'll give them their chance again at the picnic.

Just before meetin' time Chester Fisher got up to make a few remarks. Weidlein and Nesbit were duly pointed out as extreme samples of optimist and pessimist respectively and Fisher also released an "unconscious pun."

We show our ability every time we get together. It will be a long pull from now until the time we must put our best into making the convention a success. In the long summer days that are to come let us not forget that we are going to have an event which must be outstanding in every way in the eyes of our visitors. Let us all be ready to do our individual best to make it so.

PUBLICITY COMMITTEE
ACTIVITIES

Mr. Burt P. Garnett, Technical Manager of the American Chemical Society New Service, conferred with the local publicity committee on June 1st, relative to the September Meeting. Mr. Garnett is most enthusiastic about the Pittsburgh Meeting and A. C. S. affairs in general, and is convinced that the attendance at the convention will be a record-breaker.

A. S. T. M. MEETING

The Twenty-fifth Annual Meeting of the American Society for Testing Materials will be held at Chalfonte-Haddon Hall, Atlantic City, N. J., during the week of June 26, 1922.

The provisional program which has already been mailed to members, is especially attractive and all indications point to a most successful meeting.

PITTSBURGH TESTING LABORATORY

announces the appointment of C. E. Betz as Chief Chemist, succeeding W. P. Thompson.

Mercer B. Mayfield, Jr., succeeds Mr. Betz as Chemist-in-charge of the New York laboratory of the Pittsburgh Testing Laboratory.

EXECUTIVE COMMITTEE FORMULATES FINAL PLANS FOR CONVENTION

In an informal session Thursday, May 18, 1922, the Executive Committee of the local section discussed plans for the convention.

The original plans called for the registration of the Councillors to take place on Tuesday and the general registration on Wednesday, due to Monday being a legal holiday. Fortunately it was found to be possible to abandon this plan and the meetings will open on Tuesday, September 5th. A suggestion was made that some inducement be offered visitors to get to Pittsburgh early, such as an excursion Tuesday night to some of the steel mills. This suggestion, while not definitely agreed upon, was received very favorably.

The character of the papers to be read at the general meeting was discussed and several suggestions were made.

It was announced that Mr. L. H. Miller, Carnegie Institute of Technology is handling room reservations. Two or three have already been made for September. Anyone wishing reservations should communicate with him.

Mr. Fieldner of the Committee on Programs announced that subcommittees on lanterns, bulletin boards, and signs for pointing out directions were organized.

Mr. Fisher of the Entertainment Committee started a discussion on the entertainment program which brought out the fact that we are going to have one large evening September 7th. Following the public meeting that night there will be a reception at Carnegie Music Hall and following this a dance at the Porter House. For the Smoker, September 6th, the basement of Syria Mosque will be obtained if possible.

The official program as at present outlined will be found on page 74.

CONVENTION FINANCES STILL UNCERTAIN

The Finance Committee has assumed the responsibility of providing entertainment for our guests at the Fall Convention of the American Chemical Society, and it is hoped that every member of the local section will give full support. The Entertainment Committee has been obliged to make its plans immediately, and accordingly the Finance Committee has guaranteed a definite sum of money.

Please, therefore, make your payments on as early a date as possible, and be sure that it is in the hands of our local treasurer, C. E. Nesbitt, not later than July 1st.

The Finance Committee is still short \$1200, which it is hoped will be raised by the members of the Section. Can you increase your pledge or secure a new pledge? You will more than save the amount of your pledge by having the Convention at home, as your incidental expenses in connection with attending a meeting in some other city would more than account for your pledge. Then, too, you have in the past accepted the hospitality of other sections—and this is your first opportunity to repay them.

Get back of this movement and do your best! Send in your money and pledge it at as early a date as possible.

FINANCE COMMITTEE.

REPORT OF EMPLOYMENT COMMITTEE PITTSBURGH SECTION AM. CHEM. SOC.

Five applications received from industrial plants during April and May. Three of these positions have been filled through the Committee, the other two have not yet notified us as to the outcome.

New Applicants for Positions

No. 10. Metallurgical Chemist. College graduate, ten years' experience. Salary \$150.00.

No. 11. Apprentice. College graduate, 1922. Desires experience in chemical work. Willing to start at low salary; amount not mentioned.

No. 12. University graduate. Organic analysis and research. Experience and salary not stated.

K. K. STEVENS Chairman.

MELLON INSTITUTE NOTES

Dr. D. K. Tressler has completed his research work at the Institute on fish glues. He has gone to Washington, D. C., to give attention to the preparation of his treatise on the Technology of Marine Products.

On April 3rd, Director Weidlein gave a radio talk on "Pittsburgh and its Scientific Importance" in the Westinghouse Broadcasting Station in the Post-Sun Building.

The March, 1922, issue of the Chemical Age contains an article by Dr. R. H. Bogue entitled, "Water Resistant Glues; Casein and Blood Albumen."

The March, 1922, issue of Chemical & Metallurgical Engineering contains an article by Mr. C. L. Jones, entitled, "The Problems of the American Shale Oil Industry."

R. E. Hall is leaving the Koppers Company to take up work at the Bureau of Mines.

R. W. Miller of the Gas Fellowship has entered the employ of the Hope Natural Gas Company

Harold S. Davis has left the Sulfur Fellowship to enter the employ of the Arthur D. Little Laboratories.

G. S. Brattom is now located at Pekin, Illinois, in the employ of the Liberty Yeast Company.

R. J. McKay is spending several weeks in France and England investigating recent developments in Utilization of Fuels.

Public announcement was recently made of the new Dentifrice developed by C. C. Vogt. In recognition of his great service, all the newspapers published his picture.

New appointees on Fellowships at the Mellon Institute are as follows:

Miss Helen Wassell, Dry Cleaning
J. E. Underwood, Gas Fellowship
Maurice C. Walsh, Container Club
E. R. Harding, Food Products
R. B. Trusler, Synthetic Acids
R. F. Remler, Wood Products
E. E. Marbaker, Phosphorus
T. E. Williams, Salt
Herbert Hoover, Roofing

A discount on Optical Work will be given

A. C. S. Members

BY

SHALER & CRAWFORD, INC.

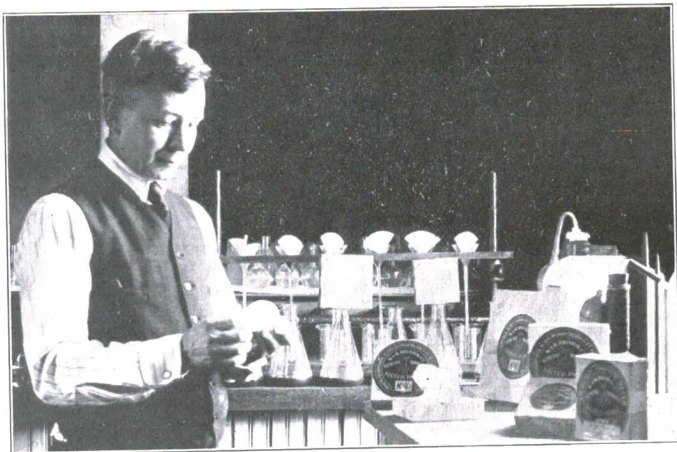
PRESCRIPTION OPTICIANS

146 Union Arcade

PITTSBURGH

THERMOMETERS

BAROMETERS



A large laboratory standardized on WHATMAN'S

*PITTSBURGH or BETHLEHEM
DULUTH or DETROIT*

From mine to market, WHATMAN FILTER PAPERS help control the quality of Iron and Steel.

From the Mesaba mine chemist working against time while the ore trains thunder to Duluth to that other chemist, carefully determining the fractional per cent of alloy in a truck axle, all swear by WHATMAN.

Go into the laboratories around Pittsburgh, in Youngstown or South Chicago, anywhere, and you'll see the familiar label denoting Filter Paper excellence.

And that goes for every other industry as well, WHATMAN FILTER PAPERS are the Universal Standard.

Send for booklet on typical filtrations

H. REEVE ANGEL & CO., Incorporated
7-11 Spruce St. New York City

WHATMAN
High Grade **FILTER PAPERS**

LOCAL INDUSTRIAL NOTES

The Pennsylvania Chemical & Research Co., care of Loomis & Satterwaite, 410 Lloyd Building, architects, has awarded a contract to the Truscon Steel Co., Oliver Building, for the erection of a one-story laboratory at Hays, Pa., 30 x 100 ft.

The William A. Banks Chemical Co., Pittsburgh, Pa., is being organized by Robert Carson, E. M. Haller and Carl E. Glock, Pittsburgh, to manufacture chemicals and chemical by-products. The company is represented by J. M. Graham, 1712 Oliver Bldg., Pittsburgh. Application for a state charter will be made on April 18.

The Consumers' Service Co., Pittsburgh, Pa., is being organized by W. J. Woolums, C. C. Bowker and L. W. Bowker, to manufacture refined petroleum products. Application for a state charter will be made on April 24. The company is represented by W. G. Heiner, 602 Frick Building, Pittsburgh.

The Columbiana Foundry Co., McKeesport, Pa., has been incorporated with a capital of \$5,000, to manufacture iron, steel and other metal castings. F. B. McConnell, McKeesport, is treasurer.

The Dauler Oil Co., Pittsburgh, Pa., is being organized by George B. Berger, Frank S. Delp and W. F. Hughes, to manufacture refined oil products. The company is represented by Calvert Thompson & Wilson, 1737 Oliver Building, Pittsburgh.

The P. J. Bour Corp., Pittsburgh, Pa., is being organized by P. J. Bour, George H. Lepper and George H. Sherman, to manufacture heat-and slag-resisting cements and other refractory products. Application for a state charter will be made on April 17. The company is represented by Saul Schein, 1506-20 Berger Building, Pittsburgh.

The J. C. O'Connor Co., Inc., Pittsburgh, Pa., has been incorporated with a capital of \$100,000, to manufacture sheet steel products. H. E. Askin, 1825 Webster Avenue, Pittsburgh, is treasurer.

The Sure Chemical Co., Pittsburgh Pa., has been incorporated with a capital of \$100,000, to manufacture chemicals, chemical byproducts, etc. The company is represented by the Capital Trust Co. of Delaware, Dover, Del.

The Myzo Mfg. Co., Pittsburgh, Pa. is being organized by Joseph A. and George T. McCleary, and James H. Corbin, to manufacture chemicals, chemical compounds, etc. Applications for a state charter will be made at once. James P. Herron, 86 St. Nicholas Bldg., represents the company.

The Frazier Cushion Cord Tire Co., Wheeling, W. Va., has been incorporated with a capital of \$75,000, to manufacture automobile tires and other rubber products. The incorporators are M. J. Cullinan and F. L. Schmidt, Wheeling, and Tuman Frazier, Martins Ferry, O.

The Acid-Proof Bronze Co., Pittsburgh, Pa., has been incorporated under

"BUFLOVAK"

Vacuum Dryers, Evaporators Chemical Apparatus, Sugar Apparatus

Used for producing Chemicals, Drugs, Pharmaceuticals, Acids, Caustic Soda, Dyestuffs, Explosives, Logwood and Tanning Extracts, Dry Milk Products, Food Products, Malt Extracts, Sugar, Etc.

BUFFALO FOUNDRY & MACHINE CO.

MAIN OFFICE AND WORKS: - - BUFFALO, N. Y.

Delaware laws, with capital of \$200,000, to manufacture special bronze and other metal products. The incorporators are John P. and W. R. Kegg, and J. J. Elling, Pittsburgh. The company is represented by the Corporation Service Co., Wilmington, Del.

The Endyne Chemical Co., Wilkinsburg, Pa., has been incorporated under Delaware laws with capital of \$100,000, to manufacture chemicals and chemical byproducts. The incorporators are H. G. Hurney, Pittsburgh, Pa.; George L. and B. B. Ayres, Wilkinsburg. The company is represented by the Capital Trust Co. of Delaware, Dover, Del.

The McGeary Firebrick Co., Pittsburgh, Pa., has filed notice of dissolution under state laws.

The Armstrong Cork Co., Pittsburgh, Pa., has opened a new office in Milwaukee, Wis., at 1011 Majestic Bldg. Hugh Krampe is in charge. It is also announced that the Denver office has been reinstated and is in charge of Alexander Callow.

The Pittsburgh Testing Laboratory Pittsburgh, Pa., announced at its recent annual meeting the retirement of its president, George H. Clapp, his re-appointment as a member of the board of directors of the company, and the election of Colonel James Milliken to the presidency of the company. Colonel Milliken's experience as a Mechanical Department official of the Pennsylvania Railroad, his experience in designing, constructing and in the shipment of all manner of railroad equipment for the military railways to France during the war, and his subsequent experience fit him for the direction of this company.

WHAT A TECHNICAL BUSINESS THINKS

My acquaintance with business men all over the country convinces me that beyond any doubt the successful business man is an opportunist. By this I mean that he always takes advantage of the present situation, whatever it may be.

If we go one step farther we find that business men divide themselves into two distinct classes. The first group is composed of a very large number of relatively small executives. These are opportunists in only a certain part of the business cycle. From the middle of the period of improvement to the top of the period of prosperity, they are successful. The rest of the time they wait for the business cycle to turn again until this particular combination of conditions favor them.

The other class—numerically much less, but much more important as individuals—embraces the really successful business men of today. They are opportunists all the time. They make successes in every phase of the business cycle, because they have learned to take advantage of conditions as they exist without losing valuable time waiting for the cycle. They change their methods with conditions, instead of waiting for conditions to fit their habitual plan of action.

(Extract from a recent statement by Roger W. Babson).

Transportation

We need forty to fifty automobiles for use in transporting the ladies on Tuesday P. M., September 5th, to and from the Country Club at Sewickley, and on Wednesday A. M., September 6th to and from the Heinz Factory in Allegheny.

A census will be made at once of chemists who will help

- (a) By furnishing and operating a machine;
- (b) by furnishing a machine operated by wife or friend.
- (c) by persuading friend to loan machine with chauffeur.

Please think this over, talk it over and tell Mrs. R. E. Zimmerman, 300 S. Linden avenue, (Hil- and 2433), before June 10th.

September Meeting American Chemical Society at Pittsburgh, Pa.

Mon., Sept. 4th— 1:30 P. M.—Registration of Councillors and Wives; Wm. Penn Blue Room.

2:30 P. M.—Council meeting.

6:30 P. M.—Dinners at Duquesne Club for Councillors and for Wives.

8:15 P. M.—Theater Party for Councillors' Wives.

Tues., Sept. 5th— 9:00 A. M.—Registration (Fee \$2.00) and welcoming of guests at Carnegie Music Hall.

10:30 A. M.—General Meeting at Carnegie Music Hall.

2:00 P. M.—General Meeting continued.

2:00 P. M.—Ladies' trip to Country Club.

8:15 P. M.—Smoker at Syria Mosque; Special Features.

8:15 P. M.—Drama School Play for the Ladies'; Carnegie Inst. Tech.

Wed., Sept. 6th— 9:30 A. M.—Divisional and Sectional Meetings; Carnegie Inst. Tech.

10:00 A. M.—Ladies inspect Heinz Plant and take lunch there.

2:00 P. M.—Continuation of the Divisional and Sectional Meetings.

4:00 P. M.—Ladies have Musicales at 20th Century Club.

8:15 P. M.—Reception at Carnegie Music Hall.

9:00 P. M.—Public Meeting, address by President.

Thurs. Sept. 7th— 9:30 A. M.—Divisional and Sectional Meetings as before.

2:00 P. M.—Continuation of same.

5:00 P. M.—Garden Party at Oak Manor, the Mellon Inst. Club House.

6:30 P. M.—Supper.

8:00 P. M.—Dancing, Music and Social Evening.

Fri., Sept. 8th—Excursions to Industrial Plants.

Sports: Golf, Tennis, Base-ball (Amateur or professional)

Sat., Sept. 9th—Unfinished Inspections, etc.

College or Fraternity dinners can be arranged for Friday or Saturday.

AMERICAN STANDARD FILTER PAPER

Suitable for all analytical purposes other than those requiring
the use of a paper extracted with Hydrochloric and
Hydrofluoric Acids

Facsimile



of label

While sold by us for the past twenty years, the merits of this paper in comparison with standard papers of European make were not fully recognized by us or by our customers until the war scarcity of foreign-made papers rendered its use imperative by many accustomed to the use of more expensive imported papers. The continued reports of these users as to the satisfactory performance of this paper led us to make some comparative tests as to its rapidity, retention of fine precipitates and weight of ash.

The results of these tests show that as compared with the three well-known makes of foreign paper of the same classification against which these tests were made, our No. 5160 American Standard Filter Paper is equal in rapidity to the fastest of the foreign papers tested, equal to all of them in retention of Barium Sulphate and equal to the average of the foreign papers in weight of ash, one foreign paper showing a greater ash residue and one a less

5160. Filter Paper, American Standard, as above described. Each pack of 100 filters is packed in a convenient paper carton, so paper is kept clean until it is entirely used.

Diameter, mm	75	90	100	110	125	150	180
Per pack of 100.....	.12	.14	.15	.17	.19	.25	.32
Diameter, mm	200	250	330	380	450	500	600
Per pack of 100.....	.41	.57	.92	1.18	1.60	2.04	3.55
10% discount in lots of 100 packs. 20% discount in lots of 500 packs.							

5161. Filter Paper, American Standard, as above described, in sheets 480 x 480 mm.

Per quire of 24 sheets.....	.58
Per package of 120 sheets.....	2.80
Per package of 480 sheets.....	10.15

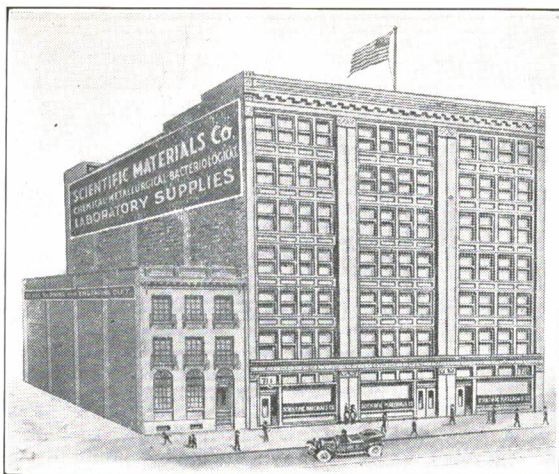
Prices subject to change without notice

ARTHUR H. THOMAS COMPANY

WHOLESALE, RETAIL AND EXPORT MERCHANTS

LABORATORY APPARATUS AND REAGENTS
WEST WASHINGTON SQUARE PHILADELPHIA, U. S. A.

CABLE ADDRESS, "BALANCE," PHILADELPHIA



RELIABILITY

Reputation, the result of over 20 years satisfactory dealing with laboratories in this country and abroad.

Quality ahead of mere price and a fair price for that quality.

Standardized apparatus, designed to best fulfill the purpose intended; replaceable.

Stock on hand complete and sufficient for National distribution.

Catalogue describes stock, enabling selection and checking of materials.

SCIENTIFIC MATERIALS COMPANY

"Everything for the Laboratory"

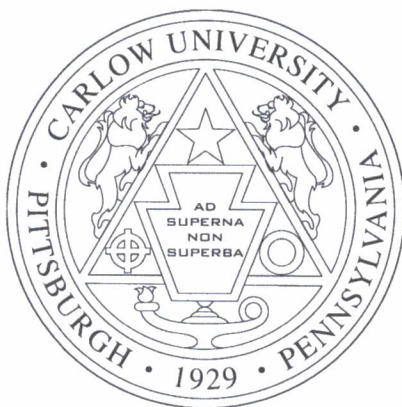
PITTSBURGH, PA.

Phones, Grant 6195 — 6196 — 6197

This archival copy of
THE CRUCIBLE

Was digitally imaged, edited and cataloged by:

The Faculty and ACS Student Affiliates of the Department of Chemistry
at Carlow University



In Service to
The American Chemical Society - Pittsburgh Local Section

Spring, 2017

Dr. David Gallaher, Department Chairperson (project lead)
Dr. Monique Hockman, Professor of Chemistry
Dr. William Kowallis, Assistant Professor of Chemistry
Mr. Michael Martucci, M.S., Assistant Professor of Chemistry

www.carlow.edu