EN CHEMISTS WHO BRAVE DEATH FOR THE CAUSE OF SCIENCE AND HUMANITY



neers of progress. In quiet laboratorie they dare the unknown, the deadly forces of germs and untried chemical reactions They labor to leave the world better than they found it, because of the useful knowledge they have added to the love of man-

They are the onberalded Mme. Curies, the seekers after new radiums.

Fo-day they are almost unknown. Tomorrow they may be numbered with the immortals. The cold star of their fame may rush meteorlike across the earth over night, and the world scanning the morning paper over its breakfast egg (it) is admittedly a man's world) may remark :- "Look at that now; here's another woman discovered something."

are content. For this they spend years over test tubes and on Journeys to far off

You would never think of them as deeply learned scientists could you see them. They are quiet and unassertive, so is fit ting. It takes time and patience to ge them to speak of their work, and when you have succeeded they have little to say and that rather of what they hope to discover than of what they have accom-

experiments in higher electricity. She is experiments." There may be more degrees and treatises, scientific degree in Germany. She is a cyanoacetate with cinnamic aldehyde. One cannot chirp up, "How many degrees phy and all the rest is sparing a few mo- vate research in the Physikalisch-tech- tion and isomerization occur." ments between experiments and classes to pische Reichanstalt that she made her Another published work is "Reactions speak of her work in science; and particularly when her conversation is of thermo-dynamics and precise methods of struggling to grasp, even nebulously.

science she delved in. She is wholly frank and unpedantic.

Concerning Your Daughter.

addition has not been made to the juvenile wardrobe. Even the poorest mother is C OURTEEN years ago a brightly colinclined to spend her hard earned money ored van drove into Herald Square on a new sash or a new bonnet for her the simplest frocks are in the best taste. This warning may not apply to the majority, but it certainly applies to a great many, too many, unfortunately. The fifteen dollars, not like five. They do not appreciate the fact that a dress need not be "From that lunch wagon," explained gaudy and overtrimmed in order to look Miss M. K. Graham, general secretary of

like a dove in a flock of peacocks.



One contribution to knowledge and they during a year of private work that I devised a method of measuring rapid electrical oscillations and conductivity. When I find time from my lectures I work or a new point of attack and hope to accomlish something. Beyond a few monographs on discoveries in the frequency of vibration I have done little that I hope for." (She considered it little that a

woman should add to the higher knowledge of electricity, a study in which only men were engaged and recognized a few Cyanocinnamylidenacetic Acid." years ago.) "I am glad to be numbered experiment covered six months, that of Such a one is Margaret E. Maitby, Ph. in the roll 'Men of Science' and hope some Ethyl a-Cyanocinnamylidenacetate (stable D., of Columbia, who teaches physics and day to hit on something useful in my form). Of it Miss Reimer writes:-"This

Then there is Marie Reimer, Ph. D., of tate." About forty-five years old, strong and "whee!" on reading the titles of some of thylenecyanacetate."

ester melting at 113' may be prepared She neglected to mention that in the quantitatively from the acid by heating also an A. B., A. M. and S. B. These list "Men of Science" there is a star be- the latter with a three per cent solution degrees were disclosed by reference to fore her name. Also she neglected to say of hydrochloric acid in ethyl alcohol or tarious published treatises on her work. that she is the first woman to receive a by the Claisen condensation of ethyl graduate of Oberlin (Mass.) Institute of Several things happen to the mixture, and Technology and Goettingen University, among them she finds that part of the have you got?" when a doctor of philoso- Germany. It was while engaged in pri- ester is "polymerized" and that "oxidiza-

> with Methyl a-Phenylcinnamylidenace-Barnard College, who has numerous de- But the palm of polysyllabics is borne grees and has done research work in by a compound used by Miss Reimer in

measuring rapid oscillations, all delivered Berlin. She is engaged now in experi- her work of discovery. The linotype man fully as an addition to knowledge, is the thing to level surprise over the world, striving to find the means can be acquired only with effort. in a quick, concise style that you are ments on the reaction of light on various cannot get it all in one line, but his is how, what does the superior business man and admiration at. organic compounds. If the subject were the worry. Are you ready? Repeat know of such things? If, however, after All the way from British Columbia and there are women in New York who work tempted along their chosen scientific lines,



Ida H. Ogilvie, Ph.D., Barnard College.

something that will be tremendously useful Barnard. When you combine the ideas to mankind, that her name and the nature of volcanoes and glaciers in one paraof her experiments will be known. And graph and ascribe the trip to a woman great ones of the feminist movement, they even then the commercialized celerity of there is action enough for even the hardi- and the other women who devote themspeech (provided the thing was marketed) est. These things has Miss Ogilvie done selves to the welfare of humanity along would quickly change the name of the dis- without any reward other than the satiscovery (in the advertising department) faction of working for the advancement and call it by some catchy word, easily of knowledge. And if the result of some

from New Mexico" and "Igneous Rocks" suggest a new theory of creation or prove are required to display constantly while Rather the fact that every year she dares loose. hitherto unclimbed mountains in quest of with deadly germs in laboratories all is there is precise and determined and

not serious one might be tempted to say slowly: - "Diphenyltetramethylenehisme- reading this, he admits that perhaps some its snow topped mountains, far from the side by side with some of the most noted they must plan "points of attack," as Mrs. women know more than he, the point of the course of civilization, down to the heart of of them. In Rockefeller Institute there Malthy, of Columbia, called her experipleasant, her exact speech suggested the the published accounts of her discoveries. Never mind if you don't know what it story will be partly gained. Miss Reimer Mexico, Miss Ogilvie has prospected with are Dr. Linda ments. In this way they discover the unmeans. Suffice it to say that the scientific and her work may be some day largely hammer and pick-but not for gold. She Bertels Lange, who conduct experiments known. And to this end they are striving "The Action of Light on Esters of world understood and accepted it grate- understood, but it is doubtful. It is only was trying to discover something hitherto in bacteriology and pathology.

Journal of Experimental Medicine several of her discoveries. She is getting lay some day leave pneumonia no longe saded. She may save millions of lives by a single discovery. Her work is danerous. Patients with communicable dis ases are under her observation in wardseparated by partitions of glass. On the assumption that disease transmission comes mainly from direct contact with the infected parts, her work is most dangerous because she is daily using millions of germs in her experiments.

One of her tests was to find whether "the pneumonic lesion produced by the streptococcus was a form of pneumonia caused by a less virulent organism." She found it wasn't. So she decided "that leucocytic infiltration of the framework of the lungs which occurs invatiably in streptococcus pneumonia and which is practically absent in the lesions caused by the virulent as well as by the non virulent pneumococcus, is a strong enough feature to form a dividing line between the two forms of experimental pnen-

try. Her adventures have been numer-years ago telling the scientific world of ous and at times dangerous. Much of the action of germs in experimental pneuher time was spent in the Ortiz Moun-monia! Yet Dr. Wollstein is listened to tains of New Mexico, which afforded and her monographs are eagerly read by Interesting data on erosion in an arid doctors all over the world.

climate. These mountains also told their Other women scientists are scattered secrets to Miss Ogilvie, secrets they had about in colleges and private inboratories. kept since the pleistocene period, when Their very names are hard to discover and they lay south of the great ice fields. nothing is known about them, except that This work, coupled with a few trips they are highly trained and devoted to reafter glaciers (they are supposed to be search. Any one of them may be the moving down this way but they don't Mme. Curie of America through some excome very far) have occupied Miss Ogil-vie's time when she was not teaching in worldwide importance.

These women may be called the truly

Not one of the Mme. Curies who were newly blazed trail is a book on igneous interviewed showed the least trace of And up in Barnard, too, there is Ida H. rocks, with analyses carefully figured out, alcofness or irascibility that is encount Ogilvie, I'h. D., calm eyed mountain we can at best read it humbly, not know- tered sometimes in men scient'sts who climber, explorer and instructor in geology. ing much about igneous rocks ourselves often adopt the foibles of the truly great It is not such writings as those of hers but willing to warn. Some day Miss as their own glory increases. They were around "Analcite-Bearing Camptonite Ogilvie may strike a specimen that will women of great knowledge, which they that the layman would be interested, one of the several that are lying about fighting for a foothold in the scientific world. That realm is perhaps the only unknown paths and makes ascents of While noted professors are battling one where bluff has no part. All that

of stopping disease, rather than the cure, After learning all that has been at

for the good of the world.

NEW YORK'S "BREAD LINE ON WHEELS," A WORTHY CHARITY, PUT ON BUSINESS BASIS R. Dusiness to the women who do it as

NEW YORK, Saturday.

and it was announced that lunch enild. But all these fond and indulgent would be served there at any hour, day or mothers should be careful not to overdress night, except Sunday. That was the piotheir children. They should remember that neer owl wagon in New York. Boys and men at that time felt it something of an adventure to climb into a restaurant on wheels, and the convenience of it made a strong appeal to men whose work kept women who belong to this class are those them out at night and who found it diffiwho "want to get their money's worth." If cult to get their food when and where they they spend fifteen dollars on a frock for wanted it. There were not so many resa child they want that frock to look like taurants open in the wee small hours in those days as there are now.

the Church Temperance Sociey, "has It really does not look well for a little grown a great and unique work. Learngirl to be laden down with heavy frim ing that an application had been made for mings and cheup inces. A plain dainty all night licenses by 200 saloon keepers, little frock is much more childish and sweet my father, to whose place as secretary I than the gaudy one and will never look succeeded after his death two years ago. cheap. Now, an overtrimmed dress, no went to Boston, where they already had ers, workers of all grades. The wagons matter how much it costs, always has a experimented with the night lunch wagon, are next and clean, so that the most fastawdry air which a simple fronk never has, and looked into what they had done there, tidious are not offended, that the custom no matter how low in price it may be. On his return he made a report which so er can see just what is being prepared Simplicity should be the keynote of favorably impressed the members of the and how it is done as he waits for his every child's wardrobe. Until the little society that they decided to see how a order to be cooked. one passes into womanhood, plain patterns, good material and excellent workmanship should be the rule in selecting
the little girl's dresses.

venture of that sort would succeed in
New York. As there were many night
workers in and about the neighborhood of
Herald Square and the accommodations
the little girl's dresses.

gown. A well made, pretty frock of good not attempt to undersell the cheap res- bad a much patronized wagon, is now the material will make your child stand out taurants; we merely supplemented them. heart of a wholesale district that is comfrom a crowd of overdressed youngsters Moreover, we gave the men the best food paratively deserted at night. of its kind that money could buy, and we . "Out of the profits of the lunch wagons

ittle girl conscious hold a record on that.



Don't let other mothers or your own chil. for providing them with good and inex- left to the society by Miss Caroline Phelps dren talk you into overdressing your little pensive food were entirely inadequate, it Stokes to maintain a wagon in perpetuity. girl. Don't let them mislead you by telling was decided to make the start there. The price of lunch wagons, like other you that a plain frock, worth twenty-five; "It did not take long to prove the valuethings, has advanced. We can no longer dollars, does not look as if you had paid of the lunch wagon. A friend gave the buy them for \$1,000 each as we did at ten for it, simply because there are no first one and other friends were ready to first. Neighborhood conditions change, coarse lace and gaudy trimmings on the pay for others as the need arose. We did too. Union Square, where we formerly



Aside from the cheap appearance of over- have gone on doing that and, in spite of we have paid for our work among the uncertainty makes it difficult for the men, streets, but the owners refused us. Then trimmed frocks, gowns of this kind teach, the fact that we have to pay more for our longshoremen, which is what we are esting at present. They make food than formerly and that our employes pecially interested in furthering at present. harder for them to save any of the money and called it the Longshoremen's Rest. the youngsters value the sham things in have to be more highly paid, we have About four years ago a longshoreman they get for their work long enough to "Some persons shook their heads and

which to pass their waiting hours except but they gave us little encouragement. invitations to all the longshoremen in the "We simed to make a profit from the the ever open saloon, closing his letter by Indeed, almost every one, including the city to bring their pipes and come and at various points, so that they can be worn er when she is young lunch wagons, not for the sake of a profit saying;—This is more than I have writ in men themselves, were very lacking in entimess of the lace or but in order to extend and make more thirty years. We did not know much thusiasm, but the more we saw of the have a very complex organization and way as the petticoat. the setcellent quality of its material. Show her that the carried on work. We do not believe about the character and conditions of the men whose work can be carried on longshoreman, but we set to work 70 he was the character and conditions of the water front and of the men whose work can be carried on longshoreman, but we set to work 70 he was there the more convinced we be that temperance work can be carried on longshoreman, but we set to work 70 he was there the more convinced we be that temperance work can be carried on longshoreman, but we set to work 70 he was there the more convinced we be that temperance work and the supply forbidding men to drink with the material.

No matter how limited your means may be see to at that your childs has one party dress, avenue, the see to at that your childs has one party dress, avenue, the see to at that so can be supply for more was making it his business to moderate, and it has business to moderate. So we decided to do it dress beauth and the section of the which is taken away. We provide a place of the work of the men whose who belonged to both the was there the more convinced we be that temperance work and the see the more convinced we be that temperance work and the selecting one by simply forbidding men to drink with the material.

No matter how limited your means may be see to at that your childs has one party dress, avenue, the first the see that the selecting of the was there the more convinced we be that temperance work and those who belonged to both which has one of these men, and these who belonged to both the was there the more convinced we be that temperance work and those who belonged to both which has one of the men whose work that temperance work and the selecting one was the first the set of the men whose who belonged to both the was the first the set of the men whose who belonged to both the was the first the set of the men whose who belonged to both the was the first the set of the men whose who belonged to hoth the was the first the set of the men w

however, and when they found comfort- is a much bigger business than most men table chairs and games and illustrated would care to handle. It involves magazines, all to use at their pleasure side issues which are a great deal of work and not a rule in the place, they sue in themselves. cumbed, and we usually have four or five. The kitchen atone requires not only hundred men a day dropping in for the an artist in the culinary line, but ar comfort of the Rest.

chairs, benches, ice water fountains and unfortunately, and perhaps that is the lavatories. Then we hung pictures on reason why so few kitchens are really the walls, the kind of pictures those men perfectly conducted. There should be could appreciate; bought magazines and as much system in running the kitcher games and plenty of playing cards and as the most exacting business would de told the men to enjoy themselves. It is mand. their Rest, without restrictions.

sending out two coffee vans all during so it should be with the kitchen. Acthe social season, so that waiting chauf- counts of every item should be recorded feurs and coachmen may have refresh- at once and added up each week. ments. Early in the winter we send no- Unhappily, most women are blind to tices to the hostesses who are glad to this business side of the kitchen. The tices to the hostesses who are glad to alipshod method of ordering at will and avail themselves of the advantages of paying the bills at the end of the month the wagons. Just now the Squirrel Inn, is too easy and requires no work, while our place for the unemployed on the the systematic mays call for a little nide tention. We have bought the building and must find the money to pay the taxes and keep up the running expenses. Here the men can find warmth, shelter not because of the added work that the and some of them work. We do what we can to keep up their courage and give settling monthly. Then, too, it is largely

the work. The president of the Woman's running the kitchen and it will be har Auxiliary is Mrs. George S. Bowdoin to break her of it. and Bishop Frederick Courteney is the president of the general society.

Of Interest to Women.

Two causes have led to the reappearance very well those of their customers who of the petticoat, no longer by any means tempestuous. One of these is the chill in is a very simple matter to discove he air appropriate to the season. The other whether or not a new customer is a bus is the prevalence of semi-transparent ma- ness woman. The tradesman just overterials for gowns, which would be quite charges once on the bill as an exper impossible without a petticoat or under- and if the customer lets it go be know life and not the real. Imitation laces. never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us, telling us how difficult it was said that the longshoremen would never raised prices nor reduced the size wrote to us.

What Every Girl Should Know About Housekeeping

expert business woman in all other lines "The first thing we did was to put in Few women combine both these requisites

One absolutely essentiar part of an "Another branch of our work is that of business is clear, well-kept accounts, and

In justice to these careless women, how ever, let it be said that very often il them a fresh start."

Miss Graham gives all of her time to into that carefree, shiftless method of

It really is sheer recklessness and extravagance to let the bills run without keeping accounts. The butcher, grocer, baker and all the other tradesmen know keep accounts and those who do not. I

Very few shopkeepers are so honest