The Bee's Home Magazine Page

Chemistry in Peace

A Companion Article to "Chemistry in War," Recently Printed in This Column—The World's Best Known Writers on Medical Subjects

In nearly every form of manufacturing anywhere from two to five and even ten or fifteen different grades and kinds of raw materials have to be combined to strengthen one another and neutralize one another or blend with one another in such a way as to produce the required fabric or substance or machine.

To take a simple example, the different brands of flour are made by blending in various proportions the different numbers and grades and qualities of wheat. And as even a given grade of winter or experience to combine these different wheats in such a way as to produce a

ence, and often very successfully. Now of modern science. the chemist comes on the scene, takes samples of the perfect finished flour schools, which were carefully planned to light at present. (which, as may not be generally known, has been carefully tested by baking in test loaves in various temperatures and under various conditions, and put to the final "proof of the pudding," the cating. before it will be branded and sold under a certain honorable name), and analyzes it, finds out the percentage of gluten and gliadin, percentage of starch, of the various salts, of water, of the constituents which have to do with its absorption of water and holding of gas in bread-making, and in a short time hands to the ing formula in chemical terms for his famous product.

They the different wheats are taken as they are bought in the market or come into the mill and a like careful analysis is made of each one of these. One is to break them, stand, walk, go," said deficient in gluten, but strong in starch.

must make of our own existence thing to do is to face the present—if it is marred by circumstances rising out of a past to which one has a sentimental desire to be loyal, the acid test of com-Another is deficient in certain salts. An- lies a wonderful sermon against yielding mon sense must be brought to bear at changes in its envelope which will be

and graded according to the amounts of him a living. His farm was not fertile the flickering light of gas when he can

wrapping paper, of a certain weight per park along the line of his place. yard, and a certain toughness as measured by the amount of pull (expressed tearing. A sample of paper which ful-fills these requirements is dissolved and baunted, held by phantoms of the past-mistaken to take up, make a clean breastanalyzed. Then the different pulps, wood, at last he was forced to give up the -and make it at once. Lay the shosts straw, rag, hemp, are worked out, the old place to a raffroad which wanted the of your past. They need not haunt your is written of the proportional mixture of absolutely no business training. each one of the two, three, five, whic.. There was nothing to say that the may be necessary, which will give the dreamer he had proven himself to be "To thine own self be true; thou canst

not too hard and brittle, not too soft fore the ghosts that haunted him had dancer or a vendor of peanuts because at and grindable; or in a spring, where the been exercised and his house of life had eighteen those had looked like ideal occuproblem is the highest degree of clasticity combined with the maximum of Too many of us are hideously held by your life, for the ghosts of your past toughness.

Formerly some old and experienced workman combined certain iron ores, fused them in a certain way, heated them upon the forge hearth until they looked just about right, hammered until they gave out a certain ringing tone. and sometimes got an excellent result, sometimes a discouraging failure.

Today the chemist is called in, and by skillful mixing of other metals, nickel, vanadium, etc., the steel is given qualities which even the purest and finest iron could never be made to yield; and every step in the process, the precise number of degrees of heat to which it is

In-Shoots

The man who listens to your story is never is the bore class.

that no other woman wants. Even the divorce court does not always

A woman seldom takes pride in a man

uncover the matrimonial film-flammers.

None save the near-fool will spend much time answering the questions of

If man does not care to go to war he can sometimes exhibit bravery by marrying a grass widow. Patriotism that enjoys powder smoke

often cools at the sight of the trench pick and shovel. The most dangerous woman of all is

the one who can keep her tongue still while her eyes flash fire. In the endeavor to start something

stituting talk for cold cash. The candidates who are not elected are never called upon to worry about the

many persons make the mistake of sub-

promises of the press agent. Good jobs always seem to seek the men who have jobs rather than the job-

The woman who really loves her husband can always discover any fault in

the fit of his clothes. It is better to let the average person worry over his own troubles. Your time will come soon enough.

Truth crushed to earth will rise again. but an old joke has a hard time coming back to the same audience.

Every best seller sooner or later reaches the cheap pamphlet form. And

By Woods Hutchinson, A. M., M. D. | cooked, the numbered shower of blows turn out as many thoroughly equipped which it is struck after it comes out, working chemists and physicists and are registered accurately by the pyro-

meter and the automatic counter. developments of durability, lightness and resisting power, is a triumph in the to it that every boy who showed any chemistry of steel. The filament or wick of the incandescent electric light is an- career was provided with an opening for other triumph in chemistry. The famous portable battery, which is to literally whip fifty times its own weight in wildcats, is or will be another.

A metal or element and a fluid which will act upon each other sufficiently to last for long periods without corresion to the weather and the season, it requires and be tough enough to us practically a great deal of skill and judgment and unbreakable, these are the elements of the problem

particular standard of whiteness and the extraordinary efficiency in waging There is not the slightest question that ness. good dough-making and gas-retention and conducting war on an enormous scale industry, the basis of modern life, but the Formerly, this delicate and extremely to the thorough and complete and masof thumb by some expert of long experi- the utmost every branch and every power

It began fifty years ago with the

electricians as possible instead of horde of literary amateurs and dabblers The automobile, in its later astonishing in intellectual culture like our American and English schools; Germany has seen aptitude or ambition for a scientific work and bread and butter until he could thow what was in him.

If there was no immediate visible opening for the young technical school graduate, Germany either employed him as a spring wheat from the same region will produce current and yet so slowly as to its numerous schools and universities or clse it quietly but frmly quartered him upon some manufacturing establishment which it thought was not showing a sufficient degree of scientific progressive-

flavor, to say nothing of nutritive value. shown by Germany has been largely due basis of life itself; and no problem is important wors was done simply by rule terly manner in which it has utilized to terms. A frank recognition and adoption solved until it is reduced to chemical of this in our schemes of education and of industrial organization is the most urgent and wonderfully helpful step in

Ghosts that Haunt Us

By BEATRICE FAIRFAX.

Too many of us are held by phantoms practical milling expert a precise work- of our past. Too many of us sacrifice must make of our own existence a thing to do is to face the present—if it other, again, has undergone certain yourself to the illusions of your past once. Life is a ghost-ridden thing for many | Progress demands that none of us live

likely to give a bad color to the flour people. I knew once a man who lived in a house of illusions. Who would light his old homestead, a tumbledown, ramwhen combined with other brands.

The whole group is carefully analyzed shackle place which could hardly yield father had used tallow dips or read by Of if it be, say, a paper mill, which all sorts of wonderful offers from a real science. desires to produce a given grade of estate company which wanted to build a Why not take advantage of every dis-

proper blend to produce the desired re- should become a power in the world of not then be false to any man." Or, in a great metal manufacturing strength developed. Today at the age of of ten years ago you are utterly false to plant, an automobile factory, for instance, 50 he is a happy husband and father and yourself as you are today, and it is with a particular part, say a bearing, requires one of the "big men" of a large western that self you must feel. You would not a particular kind and quality of steel, city. But the girl who waited died be- at twenty-eight insist on being a toe been made habitable.

doing things; it may even be an attempt control your life.

to keep faith with an outworn love. We fancy ourselves fettered and shackled and the links that hold us are rusty and ready to fall apart at a touch

It is a hideous thing that life should be our lives to outworn ideals. Life is handicapped by an outgrown past. It is growth and unless we move with it we ghastly that one's future should be built

covery you make about yourself and your Then he fell in love with a girl and own world? If you are tied to an outworn could not afford to marry. He let her love, to an outworn method of doing in pounds) which it will resist before youth go by while she sat waiting for things, to a place in life you find unconqualities of each one placed upon a right-of-way. At the age of 40 he found life if you have the courage to figure chemical basis, and again a prescription himself in possession of \$10,000 and with out what in honesty and fairness to yourself, and so in honesty and fairness

and yet suddenly all the latent living today according to the standards pations. Apply that principle all through some tradition. It may be loyalty to a will haunt you only if you sit weakly place; it may be an accustomed way of and impotently by and permit them to

Plume Trimmed Hats Return



the constituents desired in the final mixture which each contains. Then a preture which each contains, Then a preture which each contains, Then a preture which each contains, Then a greture which each contains a greper cent of No. red winter, so much No. 1 his ancestral acres. But he had a senti- pouring rain without umbrellas because vere wing, ornament and ribbon trimspring, so much northern Manitoba, so mental feeling for the old place, where there was once a time when umbrellas mings, this change is most agreeable. crown, featuring a crushed ribbon band his grandparents before him had lived. were unknown. We take advantage of Then, too, the feather trimmed hat is so and two plumes. A smart jet buckle afand for years he insisting on refusing all the discoveries of a modern world of invariably becoming and distinctive that fords an interesting detail.

Hope

By JANE M'LEAN.

A crimson rift that streaks the gray, A deathless scent that still will stray Athwart the years, the living strain Of music heard through depths of pain. A star abreast a stormy sky, A smile where tears are scarcely dry, And eyes that Grief has rendered blind, Reflecting light unquenched and kind. A word that lingers in the still, The strength of never conquered will, The joy that in Faith's own heart lies-

The Marriage Bond

She Compares Socialistic Marriage and the Common-Law Marriage.

By ELLA WHEELER WILCOX.

Copyright, 1915, Star Company. The Rev. Bouck White performed a socialistic wedding recently. It differed

from other marriages only in substitut-"While love lasts" for "TIII death do us part." The Rev. Bouck White says very truly, "Where is not, true in making this change in the marriage ritual no reormation is being made in our domestic or social conditions. It will unquestionably rein greater

license and more

fre quent separa-There are living in the world today umerous happy couples who have passed over danger reefs in life's voyage and weathered great storms and come forth into calm seas. During their tempestuous times, had the socialistic tugbest been at hand one of them would no doubt have gone ashore and left the other to continue the voyage alone.

There are tides in love as there are n the ocean; there are times when the tide runs very low; there are certain shores where the tide goes out for miles, leaving bare sand dunes or mud flats: but the waves come back again and the Prepare the soil then for the perennic tide runs high. There are certain temperaments that

are like these certain shores at the time of the going out of the tides; if they break their marriage ties they may live o realize their mistake at a later hour. They may live to know that love did not die, but it only receded for a time.

This new socialistic clause in the mar- the first touch of frost.

riage service seems to put the institut) very much on the plane of the comm

law marriage. The common-law marriage requires ; ceremony at all. The man and is woman live together and he calls her ! wife, and so in the eyes of the comm law she becomes his wife. Either leave the other at any time without the

oother of the divorce court. The socialistic marriage possimore dignity then this.

It is likely to lead men and worn into forming ties which they know w only be temporary; men and wor who, facing the solemnity of a marria "Until death do un part," your tate and desist from taking the ste knowing their infatuation was only free the senses and that it possessed no star

quality. If we are to take the solemnity, it seriousness, the sense of great respon bility out of marriage, then why n settle down to the common-law marria and be done with it? Marriage is tended as a school for the cultivation all the great principles and virtues; sel control, patience, sympathy, unselfis ness-that old, old quartet, as old a God-these :hould stand guard over ma ringe.

The socialistic marriage would di pense with them. Since an easy ex from a difficult situation was at han why exercise the sterner virtues? Every married couple ought to this of love as a perennial not as an annua plant. Perenials and annuals requir different treatment in one's garden plants. Give them the right care, protect them through the hard winters and

neurish and fertilize the ground when they grow. It will make a more beautiful and satis fying garden than the planting of seeds in shallow soil each spring and the throwing away of the faded flower at

Advice to the Lovelorn

Be Patient with Her. Be Patient with Her.

Dear Miss Fairfax: I have been paying attention to a young lady for three years. We had an engagement at her home. When I called I was informed by her parents that she was out for the evening. I learned from an authentic source she was out with another man. Later I confronted her with it. She admitted automobiling with a married man. We quarrelled and parted. Since then she has been trying to effect a reconcillation. If I take her back do you think I could trust her again.

What the girl did was your wrong parents.

What the girl did was very wrong, particularly so if she deceived her parents as well as you, but do you feel that you have the right to judge her for one such blunder? He patient with her and try to persuade her that she cannot afford to carry on an affair with a married man. Your loyalty may save her now, and if you desert her great harm may come

Don't Sacrifice Your Work.

Dear Miss Fairfax: I am 19 and an actor. The girl to whom I have been attentive is determined to part with me if I do not give up my position. Now, Miss Fair fax, should I give up my livelihood and seek a new position because she is against it, or shall I give her up? Do you think I ought to leave her after ahe deliberately said that she would give me up if I did not give up this position? The girl to whom I have been attentive is determined to part with me if I do not give up my livelihood and seek a new position. Now, Miss Fair fax, should I give up my livelihood and seek a new position because she is against it, or shall I give her up? Do you think I ought to leave her after ahe deliberately said that she would give me up if I did not give up my position.

The Boy Will Add to Your Happiness The Boy Will Add to Your Happiness
Dear Miss Fairfax: I am a young man of 25, and have found that I am deeply in love with a young woman who is a stenographer in this city, and who reciprocates my love. I now occupy a position with a large electrical corporation, and my prospects for advancement seem excellent.

The background until you are more massive to the background until y

boy might detract from our happiness. She assures me that this would make no difference. Will you kindly give me your advice in this matter? FRANK L. There is no reason why the little lad you love should not be still dearer to

you if he became your step-son. If you really care for his mother, marry her by all means, and try to give the bow the benefit of a father's love and compan-Don't Sacrifice Your Work.

which I have deep respect. Don't sacri-Now, dear Miss Fairfax, the only thing that would tend to mar our happiness is the fact that the woman is a widow with one boy, who is a very dear little fellow. I love the woman dearly, but I think the

Christmas is a real Christmas with a Victrola in the home.

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