

he Bee's Home Magazine Page

Birds and

Aeroplanes

Inventors Are Making a

Special Study of All the

Species of Bird Flight in

Hope of Solving Secret

of Flying-If Successful,

Aeroplane Flying Will Be

Revolutionized and Will

Be Practical and Safe

By GARRETT P. SERVISS.

An English philosopher once wrote a

book on the human hand, showing its mitable adaptations to its purpose, and

its almost infinite capabilities as

trument, or tool.

from the structure

upon.



Mental Charm, Animation and a Useful Collection of "Don'ts" from Grace Field

Acquiring a Beautiful Figure Through Dancing

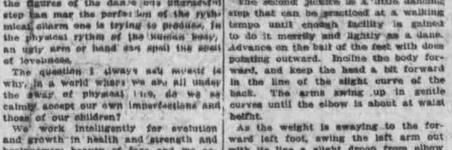
By Lady Constance Stewart Richardson

hey must be a learne-set yes whole, In all you can manage to this toe scattion. figures of the dance one ungraceful

those of our shildren?

We work intelligently for evolution brainpower; beauty of face and we secept in the old superstitting fairy-tale fashion as the gift of the good fairles and we fold our hands in the supposedly philosophical decision that either we have It or we have it not. Not at all. Either we have beauty or we set about getting it—if we have brains enough to acquire anything.

It is a simple thing to train the human body in the right way—the way it should go in the beginning, but it is hard to odily faults once they have come. However, if you have some to maturity





And make sure that your little children, and the dear young things all about you, have the proper beginnings to insure for them healthy and beautiful and

lly spoil the perfection of beauty, suppose today I show you how beautiful arms and hands may be evolved through proper firm high curve, they give of themselves

The first picture shows one stage of a very wonderful arm exercise. Raise the eight on the balls of the feet, swaying slightly back and forward from toes to heels as the arms are raised with arms simultaneously until the backs of the hands just touch above the head. mical muscular control, to the shoulder height again and turn the arms so the

Practice this with gradually receding and body springs from foot to foot. In all ercises will register for you a distinct increasing tempo, and finally do it as these arm exercises hold the hand restep toward the acquisition of poetically you walk forward on tiptoe, or as near laxed from the wrist, with light, pliant graceful arms and hands.



graceful bodily growth. Since an ugly arm or hand can so eas-

training. It seems a far cry from dancing to beautiful arms and hands; but I shall try to show you how they may be obtained in the rythmical movement and exercises of the classical dance. As most of the movements of the classical dance are executed with high-flexed arch and, the body's height falling on the ball of the foot, while the instep is held in a a slender grace and power to the too much neglected foot. In both of the exercises I give you today the body must be polsed lightly and springly upon the ail of the foot, inclining forward toward the toes. Walking and dancing thus will banish the flat-foot that seems to be a for of modern high-heeled civilisation.

drooping wrists to shoulder height. Vhen the arms are straight lines from shoulder sockets raise the wrists and Now drop the arms slowly, with rythpalms are afternately up and down parallel to the floor. Then, with palms forearm curving up almost perpendicusdown, sink the arms gadually to the lar to the ground, and the wrist droop- curved and relaxed with the index finger at the same time inclining the ing. Swing the arms in and out thus pointing up ever so slightly. weight gradually to the entire foot. from side to side as the weight of the

the culmination of the exercise for developing beautiful arms through rhythmic motion. To the right is shown a clasical dancing step in which the hands and arms are also exer-

to wrist, and the right arm in, with the fingers, middle fingers fairly close together, small and index fingers gently

The figure to the left shows

The Girl Who Refuses to Be Kissed

By BEATRICE FATRFAX.

Dear Miss Fairfax: I am 29 years old and have known a young man two years older who has lived near me all my life. I have been abroad for five years, and, upon my late return home, of course, resumed friendly relations with his people. He saked me if he might kiss me which I refused, and after that tried several times in a playful way to caress me, which I also resented, whereat he called me "cold" and said I had no reason to be so distant with him, and now keeps shy of me and has broken several promies he made me, whichen several promies he made me, which is all other respects I have tried to show a friendly interest in him. Was I really too reserved? Does our long acquaintance really entitit him to that kind of familiarity? I think a good deal of him, but more of my self-respect. Do you think if he really cares as much for me as he appeared to at first he would be so easily discouraged? PUZZLED. Dear Miss Fairfax: I am 20 years old

So he called you "cold" did he. Desr

Girls! Draw Moist Cloth Through Hair

Try this! Hair gets thick, glossy, wavy and beautiful at once-Stops falling out.

Immediate?-Yes! Certain?-that's the joy of it. Your hair becomes light, wavy, fluffy, abundant and appears soft, lustrous and beautiful as a young girt's after a Danderine hair cleanse. Just try noisten a cioth with a little Danderine and carefully draw it through your hair, taking one small strand at a time. This will cleanse the hair of dust, dirt or excessive oil, and in just a few mo-ments you have doubled the beauty of your hair. A delightful surprise awaits those whose hair has been neglected or is scraggy, faded, dry, brittle or this. Besides beautifying the hair, Danderine dissolves every particle of dandruff; cleanses, purifies and invigorates scalp, ferever stopping itching and fall-ing hair, but what will please you most will be after a few weeks' use, when vou see new hair-fine and downy at first -but really new hair growing all over the scalp. If you care for pretty, soft hair, and lots of it, surely get a from any drug store or tollet counter

and tout try it.

know so very little about.

Tell me, little girl, which would you

rather do, have this very "friendly" young man tell you that you are "cold"

Wouldn't say anything about you for worlds? That's what you think, isn't it? Well, now, just make up that good sen- | will show that young man that he'll have sible little mind of yours to think dif- to look elswhere for temporary amuseferently, that's all.

I don't know the young man in question, but if he's any thing like most of the young men I do happen to know he isn't so very secretive about his opinion of the girls he knows.

Why should he be, pray tell? Why should a girl let a man kiss her is she's afraid he'il tell somebody about if she doesn't want people to know? Don't do it, that's all. The kissing girl is known from one end

of her town to the other and known too as a "kisser"-ch, yes, it sounds coarse and it is coarse, that's the worst of it-but it's true, and while we are talking about these things let's tell the plain truth-just for a change, Some girls who let every man they

know hise them good night, marry and marry well, too-but a whole lot of them do not marry at all, just because of the

What man wants to marry a girl who's kinsed every man she met for the last four or five years?

Who wants to meet his friends and have

What in the world makes you think

Because the man doesn't come to you any more? That simply means that he doesn't

want to spend his time with you unless you let him make all kinds of love to you-what of it? Do you want to be his "spooning girl"

Do you want him to walk with you and talk with you and make love to you for months and months, till every one you know couples your names and-then go and marry some other girl who wasn't surer if you do not frighten it away, quite so obliging as you?

And I want you to have it, for love it all Ten to one that's what he would do- there is to life.

me, what a dreadful indictment cold he lan't ready to marry, or he doesn't what a crime to be "cold" to a man you care enough for you to want to marry you-that's all. Do you want to be a kind of nothing better to do girl for rbs, their elasticity, and other unknown

If you do, just call him up and the first "cold"-and see what he will do-I hope you will do no such thing-I hope you ment of that sort. You'll be friendly and nice to him. Have fun with him-be all that a light-hearted girl should be in the way of a companion. But you'll draw the line-where the man himself draws it when he thinks of the girl he wants to marry some day.

If he loves you he'll come back. won't stay away because you are "cold." If he doesn't love you-the sooner he begine staying away the better-for you

Stick to your colors, little girl, the clean, wholesome, honest colors of clean, wholesome, honest girlhood—they'll win: they'll win-and what they win will be worth keeping.

Advice to the Lovelorn

By BEATRICE FAIRFAX.

He Shows No Sign.

Dear Miss Fairfax: I am 17 years old and about four months ago a girl friend introduced me to a young man about four years my senior. He is very good looking and has winning ways. From the first day I met him I adored him and it was a case of love at first sight on my part. Every time we meet he is very pleasant, but never has asked be to go out with him.

Now what I would like to ask you is if you think he cares for me any, and what I should do to gain his affection.

If he loves you, he doesn't know it, and I am sure any attempts to win his love will be to your disadvantage. You cannot force a man's love. your own sweet, natural self and if his love is to be yours it will develop all the

dergone during the long ages that have by and by." And I want you to have it, for love it all elapsed since ther reptillian ancestors first developed wings and learned to fly.

Beauty

GRACE FIELD'S MAXIMS OF BEAUTY.

a proper welcome. My mother stands as my link

"How to avoid being ugly" is

Don't use other people as stepping stones to success-help

beauty and happiness

friendship.

There is no doubt that many of the most ingenious and effective mechanical inventions that have ever been made are based and were probably suggested by, the wonderful capacities of the buman hand and fingers. Inventors have been able to follow these hints

of the hand because, by daily use, all the various fun ions of its different parts are perfectly

The wing of a bird is as marvellous an instrument as the hand of a man, and if its action could be as easily comprehended it would show us very quickly the best way to construct a flying machine. Unfortunately, since we are not born with wings, there are many things about them which are mysteries to us,

Inventors well understand this fact, and special studies of the wings of birds are being made for the purpose of getting more light upon their action, in order that the knowledge thus acquired may be applied to the improvement of aeroplanes. Messis. Housey and Maguan, of the Paris Sorbonne, have, with this object in view, investigated the flight of 200 birds, belonging to seventy-five different spocies. They have discovered many very interesting facts, which may serve to guide the inventors of future aeroplanes. One thing that they have found out. which greatly surprised them, is that the ratio of the motive power of birds to the supporting surface of the body and wings varies inversely instead of directly. This means that if the supporting surface is large the motive power is proportionately small, and if the supporting surface is small the motive power s proportionately large. Or, to put it in different words, the larger the wing surface the smaller the motive power, and

vice versa. This fact may prove of great use, for hitherto it has been assumed by the makers of aeroplanes that the best flying machine must be that having the most powerful motor and at the same time the greatest lifting power per unit of surface. Exactly the opposite relation is found among birds. The best flyers have, by far, the feeblest motive power and carry the smallest weight per unit

of surface. Direct comparison has shown that if an aeroplane of thirty feet spread, and carrying about four pounds per square foot, is reduced homologously, or part by part, to the dimensions of a bird of three feet apread, it can carry a weight of only about two-fifths of a pound per square foot of surface. New, no bird is anything

like so inefficient as that. It becomes evident, then, that the wing of the bird depends for its power upon something else besides area. The elements that must be taken into account, and which we cannot yet imitate, or fully comprehend, are the quality of the feathers, the stiffness of the supporting circumstances, which, it is suggested, may depend upon alimentation of the bird, or have him tell other men that you are time he comes around show him that you that is, upon its mode of nourishment and not at all cold? yous and muscular systems.

> Probably a complete comprehension the mechanism of flight of a single bird, such as the gull, would place in our hands the means of making a flying machine incomparably superior to any yet produced. The full secret of the bird being discovered, we might be able to imitate it. But that secret remains hidden. Not long ago I stood on the deck of a steamer in Plymouth harbor, and, with a number of intelligent men, who were as interested as myself, watched the flight of hundreds of gulls, which came so close that the movements of their eyes were plainly visible. It was an exhibition of nature's magic as wonderful as could be

imagined. The birds soared, turned, descended, rose, increased and decreased their speed, by slight tippings of their wings and changes of balance, only oc- 25, 1884, that Dr. S. Fillmore Bennett casionally flapping their wings for a few wrote his immortal hymn. The Sweet seconds, and it actually seemed to the By and By." Bennett was a practising observer as if they did all this by mere physician in Richmond, Ill., and at exercise of the will, as we sometimes imagine ourselves flying in our dreams. One the came time ran would have said that they possessed some a drug store. He source or kind of energy unknown to us. | also taught music When the steamer moved off they fol- and composed mulowed and, without the least apparent ex- sical works. His ertion, and often without any visible latter business was movement of wing, kept abreast or it, outstripped it and salled all around it. Without a single flap of its wings a guil

much given to would suddenly double its speed. melan choly and Nobody could see how it did it. Invisible air currents probably play a part of spirits. He was in the phenomenon, but that is not all, siways imagining The secret also lies partly in the structhat some friend had spoken to him ture and action of the feathers and in the control of the bird over the curvature of about it.

its wing surfaces. Existing aeroplanes are a good beginning, but only a beginning, and before they can be perfected we must carry them through a course of evolution re- matter, Webster?" "Ah." replied Web- as long as humanity endures on this sembling that which the birds have un- ster, "nothing much. It will be all right earth; for while men and women live

Beauty may come by the grace of heaven-but you must give it

with God and Heaven.

the best beauty secret.

them up instead.

It takes sunshine to grow



Grace Field's Magnetic Beauty.

The Sweet By-and-By

By LILIAN LAUFERTY.

"Perhaps you think that beauty comes to welcome beauty is to set most earnestly about not being ugly!" said Grace heaven."

"Of course quite a few of us have a but any of us can avoid being ugly or other people as stepping stones to your for the girl who wants to avoid being neist on receiving all the time. It is ugly. And I have one great big positive great fun to give-and if you can give rule for beauty. It is, keep in sympa nothing more than a cheerful smile and you are strong enough to bear them. thetic touch with all the world through a friendly greeting, you'll find that gift your own joy in your mother's sympathy. will make happiness and friends grow in cleverest soubrette. Sunshine crinkled the nature. mouth corners and lit the wonderful gold-Anna of "Lieber Augustin" at the Casino artist's choice of the 'most beautiful

By REV. THOMAS B. GREGORY.

It was forty-nine years ago, September

"coolly," and then dropped into the blues

Bennett understood his friend's nature

came into the store feeling unusually

melancholy he said to him, "What's the

"That is so," said Bennett, "and why

perfectly, and one day when Webster eyes, "That piece is immortal."

wouldn't it be a good subject for a song with its "land that is fairer than day."

one Joseph P.

Webster, a man

general depression

theater, instead of lovable Grace Field in

her own beautiful homy home. by the grace of heaven-well, even if it cardinal beauty secret. Den't worry. made very welcome. And the best way they are big enough to be griefs. Don't tending the inner shrine.

sweet and make your eyes hard and cold that is a whole chapter on beauty! hard time winning the title of 'beauty,' instead of sweet and wistful. Don't use mely. I have a long list of 'don'te' success. Help them up instead. Don't write. It was a summing up of her My mother-with her sweet, helpful sym- your personal sunshine. It takes sunshine The smile-wistful and sweet-trembled to grow things, you know-beauty and out now and lit the face of New York's friendship and the joy of of a generous

"I suppose any one of us would like to brown hair of Miss Field, the fascinating be as beautiful as a poet's dream-or the

-By and By." With that the doctor

snatched up a piece of paper and went

to writing, and within fifteen or twenty

minutes he handed Webster the paper

with the words of the song all writter

"There," said Bennett, as he handed

his friend the paper, "write a tune for

that." Webster looked it carefully over,

and turning to a man named Bright who

me my fiddle over the counter, please."

The fiddle was handed to him and he

went to work at once to make a tune.

"In less than half an hour," says Ben-

nett, "Webster and I were singing to-

gether the words and music. We liked

them very much, and were singing our

song off and on all the rest of the day.

Toward evening," Bennett continues.

into the store and we sang it to him.

He was deeply affected by it, and when

it was ended the spirit of prophecy came

over him and he said, with tears in his

song will live forever, or, at any rate,

below the stars they will continue dreaming and singing of the 'Sweet By and By,"

And "Uncle Crosby" was right.

"Uncle Crosby, as we called him, came

worked in the store, said to him, "Hand

There's a land that is fairer than day, And by faith we can see it afar," etc.

a sweet nature blossoming out into a sweet smile a girl can fairly hyppotime you into thinking she is beautiful. There is a glamor and a fascination and a charm about the radiant expression of liking it here on earth! I said I knew something just as good as the fatal

beauty of Helen of Troy. The something just as good won't fade. It is the ability r own beautiful homy home.
"My don'ts—which stand for 'How to It is the mind to move all the forces of avoid being ugly seem to me to be the your nature the heart to be in tune mes that way it only stays when it is Don't dwell on your troubles even if ness by the clean, happy, cager nature with life and the face moulded in sweetpathy-stands as my link with God and . The radiant smile of her own sweet

ing, simple charm of manner, animation,

nerry sweetness, good humor and a sym-

athetic attitude toward life are fine

substitutes for beauty.
"You look at the woman who is merely beautiful, but you look at the Venus de Miles too, and you don't in-

vite her out to dinner! . For a companion

you choose the girly who is interesting and sweet mannered. Becoming clother

physical cleanness, brains and a graciou

manner cerainly give a girl charm. With

nature played in little dancing lights Field with her I'll-be-there-if-you-wantme smile lurking in the depths of great
hazel eyes.

Set bliter over burdens; that will corrode the sweetness of your nature. It
will make you smile acid instead of tempored, kindly, generous smile like

And Miss Field gave me a little conclusion far better than any I ever could whole philosophy of sunshinet "If have troubles the Creator must feel that There is nothing to be proud about in having everything come your way with no effort on your part, Troubles are a compliment from the Giver, And compliment from Heaven ought to be received with a gracious manner. sweet smile and a thankful heart!"

Stork and Cupid **Cunning Plotters**

Many a New Home will Have a Little Sunbeam to Brighten it.



There is usually a certain degree of dres in every woman's mind as to the probab pain, distress and danger of child-hirt but, thanks to a most remarkable remes known as Mother's Friend, all fear is be

Mother's Friend is used externally. Mother's Priend is used externally. It is a most penetrating application, maked the nuscless of the stomach and abdemen plant so they expand easily and naturally without pain, without distress and with none of that peculiar neuses, nervousees and other symptoms that tend to weaken the prospective mother. Thus Cupid and the stork are held up to veneration; they are rated as cunning plotters to heraid the coming of a little sunbeam to gladden the hearts and brighten the homes of a host of happy families.

There are thousands of womes who have used Mother's Friend, and thus know from experience that it is one of our greatest contributions to healthy, happy mother-head if is sold by all droggists at \$1.00 per bottle, and is especially recommended as a preventive of calling breasts and all other such distresses.

Write to Bradfield Regulates Co., 182 Lamar Bidg., Atlants, Ga., for their very valuable book to expectant mothers. Gat a bottle of Mother's Friend to-day.