### Putting a Tape Line on the Stars

Betelguese is justly rated as one of the most remarkable achievements of astronomical science up to date. For hitherto, although many stars have been weighed, no method has been known whereby their size could be as-

Thus, for instance, the size of Sirius, the dog star-so interesting to us by reason of its extraordinary brilback to the days when the pyramids were built in Egypt—has never been definitely ascertained, though it is believed to be at least forty times as big as our sun and more than 100 times as bright.

Sirius, Phocyon and Betelguese, as viewed from the earth, form a triangle

rery near to us, as stellar distances right.

teen times as far away.

Betelguese is a giant sun. If our

the stars are suns. Probably three-fourths of those we see with the naked eye are gaseous bodies. The gaseous stars are the powerful light-givers.

Such gierte as Capanya Aldabagan. stars are the powerful light-givers. Such giants as Canopus, Aklebarar, Arcturus and Antares are conspicuous examples. Every star, it is believed, is in its youth a mass of burning gas. As it grows older it shrinks and grows ter these a much broader field is open.

As it grows older it shrinks and grows ter these a much broader field is open. The teak, which supplies one of the strongest timbers known, grows slow-ter these a much broader field is open.

As it grows older it shrinks and grows steadily hotter, up to a certain point, when it begins to cool.

Astronomers are accustomed ic classify the stars in a rough way as "giants" and "dwarfs." But this has reference to volume, and not to mass. In proportion to their bulk, the giants are light in weight and the dwarfs. are light in weight and the dwarfs heavy because more dense. The known approximate weights of many stars appear to indicate that, while one of another, the biggest of them does not exceed the smallest in this respect by Racial Origin—Irish.

When we look out beyond the confines of our universe, which we call the milky way, and, with the aid of a powerful telescope, behold the "star clusters"—island universes they have clusters"—island universes they have been called—we realize that all of the many thousands of suns which appear as if massed together in these clusters and, indeed, some four or five centuries of the many thousands of suns which appear as if massed together in these clusters and, indeed, some four or five centuries the family names of Cooper is really to same as our modern word cooper, used to designate a barrel maker, and is extremely hard on children. Consequently and indeed, some four or five centuries the family names of Cooper and Coper is really to same as our modern word cooper, used to designate a barrel maker, and is extremely hard on children. Consequently and indeed, some four or five centuries are the family names of Cooper is really to same as our modern word cooper, used to designate a barrel maker, and is extremely hard on children. Consequently and indeed, some four or five centuries are the family names of Cooper is really to same as our modern word cooper, used to designate a barrel maker, and is extremely hard on children. Consequently and indeed, some four or five centuries are the family names of Cooper is really to same as our modern word cooper.

### How the New Cook Used Baking Powder. The old-time English deep-sea fisher-

ean was not an epicure; still 1.38 was e a dyspeptic, but held his digestion

smacks of the past happened a boy who had run away from His maiden culinary effort turned out "a pudding."

The crew ate it, but requested the cook to make the next one with baking powder. The boy promised to do so. He did not know much about using baking powder, and there was no one on board competent to teach him; so he depended on his own resources and inventiveness. He boiled the pudding and, just before serving it, scattered a handful of the powder on

repeated to me, concludes Mr. Wood, but they cannot be recorded here.

Happy the man, in these days of shortage, who owns a house that is neither ugly nor uncomfortable! And happier still is the prospective builder who will conform honestly to good standards for the new structure! We may sigh for the good old days of cheap materials and abundant labor, but the responsibility for a pleasant new house is no less personal now than formerly. Of course utility should always be considered, but that is no reason why a house should not also have simplicity of line and good taste hornament. Happy the man, in these days of

**Used Autos** Breakey's Used Car Market

## The Bad Boy Proposition.

There are no bad boys. We make this statement confidently, knowing that it will be endorsed by educators and all who have spent their lives in

go—so near that a ray of light, traveling 186,000 miles a second, would require only twenty-two years to reach as thence. Betelgueses is about eighted the second and the second second results and others who are responsible for the youngster's development fail to fill his time with useful activity. The forces of nature must operate.

dwarf in size and, one might say, ecrepit.

The Boy Scout programme is the self gaining, and unde: a further use mill in the stream of boyhood. It proof the pills all my old-time energy and vides something useful for every boy vitality was restored. Out of my own to do every minute. Knot tying, first experience I can strongly recommend

enough and patriotic enough to turn natural energy into constructive chan-nels. Already over 250 Scoutmasters are directing the activities of some 9,000 boys in the province of Ontario, and the movement is only a little more than ten years old. Men interested in devoting part of their leisure time to "nation building" write to Boy Scout Headquarters, Bloor and Sherbourne Sts., Toronto,

# A WOMAN'S RIGHT TO GOOD HEALTH

Most Troubles Afflicting Women Are Due to Poor Blood.

To every woman belongs the right to enjoy a healthy, active life; yet nine out of ten suffer from some form of Sirius, Phocyon and Beteignese, as there never was a boy who did not have viewed from the earth, form a triangle turally—consciously or unconsciously in the night sky. But the dog star is —do things that he believed to be of headaches, weak backs, aching the star of headaches, we have the headaches have the headaches have the headaches have the headach That is why one see limbs and uncertain health. All weak women should win the right to be well by refreshing their weary bodies with the new, rich, red blood that promptly transforms them into healthy, tive women. This new, red l Betelguese is a giant sun. If our own solar orb were equally big, the whole of the track which the earth pursues in its journeys around that heavenly body would be included within the central flaming mass. The earth has an average distance of 93,000,000 miles from the sun. Thus one may form a notion of the emmensity of the great star which has been newly measured.

It must not be supposed, however, that Betelguese is a relatively solid mass like our sun. The giant star is assembled from the line. We put a water-wheel in the stream and it grinds the grain with the energy which it could other wise dissipate in washing out its banks and rooting out the trees.

These things we know; yet we too often permit youthful energy, our most valuable asset, to run riot. We even and it was so easily tired that my work was a big or bigger. But our sun is exceedingly old, and, as it has grown older, it has steadily shrunk, until now it is a dwarf in size and, one might say,

Surnames and Their Origin

Source-A given name.

The Saving in Health

along with the saving in cost, attracts

many a tea or coffee drinker to

"There's a Reason" for Postum

Try a tin

changed in spelling considerably, though the difference in pronunciation is not so great as might be imagined.

the ancient Ceits in which blood test were the chief bonds.

It was in this manner that the name of Sloane originated, on the rise to prominence of one "Sloane," son of speak, the first cousin of the modern of "Eoghan Caoch." The given name of "word "ccoper," and really is a more direct descendant of the medieval one" or "the thin one," and it was probably given as a result of character of their co-workers.

Our modern word "cup" is, so to speak, the first cousin of the modern of "Eoghan Caoch." The given name of "word "ccoper," and really is a more direct descendant of the medieval one" or "the thin one," and it was probably given as a result of character of their particular posterities, as did others of their co-workers.

Our modern word "cup" is, so to speak, the first cousin of the modern of the province of their co-workers.

Our modern word "cup" is, so to dealers or by mail at 25 cents a box from The Dr. Williams' Medicine Co., After the Storm.

One of the soldiers of the Rainbow poster in the account of the modern of the province of their co-workers.

Our modern word "cup" is, so to speak, the first cousin of the modern of the province of their co-workers.

After the Storm.

One of the soldiers of the Rainbow pivision, United. States, had been storage of the soldiers of the Rainbow pivision, United. word. They made them for all purposes and in all sizes, and out of a

he a dyspeptic, but held his digestion as lightly as a man may and survive. Yet we gather from Mr. Walter Wood's North Sea Fishers and Fighters that there were heights, or rather depths, of gastronomy before which even his reckless spirit qualled.

A certain cook on one of the sturdy saling smacks of the past happened with the small s

or family name is "O'Siollan."

Sloane, of course, is but the Anglicized version of it, which in the course
found in the tax and census records of transition from one tongue to the which have come down to us from other, has lost one of the syllables and medieval times in England.

INSTANT O POSTUM

## A Winter Night.

strode down the long slopes the road

Between the pastures, all was flawless white,
Save where the lofty pines upon

the height pale moonlight like dark statues showed.

The greatest of faults is to be conrious of none. The thunder of business often sours

the milk of human kindness.
Yesterday has gone, to-morrow may never come; do it to-day.
Prefer diligence before idleness, unless you esteem rust before bright-

If it beats you sometimes, dare it again and it will succumb.

## Garden Seeds Needed.

ounces; cabbage, ene packet; carrots, one ounce; cauliflower, one packet; celery, one-fourth ounce; Swiss chard, two ounces; sweet corn, one pint; cucumbers, one ounce; egg-plant, one-half ounce; kohl-rabi, one packet; lettuee or mustard, one-half ounce; muskmelons, okra or onion seeds, one ounce; onion sets, one quart; parsley, one nacket; parsnip, one ounce; peas, o ket; parsnip, one ounce; peas,

# STORMY WEATHER

and, indeed, some four or five centuries before many of the Irish clan names as high the addition of a word designating "descendants of" or followers — meaning that a ray of light would require three and a half centuries to cross it— and many of its suns are undoubtedly hundreds of thousands of times as big as our own orb of to-day. It takes 365 centuries for a light ray to come to us from Messier 13.

boasting to a British Tommy about its

"Lumme!" said the Tommy. "I know why yer calls it hat. Rainbows is things that comes out after the storm's over, ain't they?'

MONEY ORDERS. Send a Dominion Express Money Order. Five Dollars costs three cents.

Whale of a Fish Story. Whate of a Fish Story.

At a convivial gathering in connection with an angling club a sailor listened attentively while the members told of the big fish they might have landed had not their lines given way at the critical moment. The manner in which they recounted their exploits would have brought tears to

the eyes of the most hardened story teller.
But a sailor never knows when he

is beaten.

"Well, mates," he began. "I never did any fresh-water fishing, so I expect you are telling the truth. But I remember on one occasion, having I remember on one occasion, having nothing better to do, we cast a line at sea and awaited results. Soon we got a bite, but for the life of us we could not bring in our catch. Then an idea struck us. We fastened the line to the windlass and proceeded to haul in, when the boat gave a lurch, the line broke, and the monster escaned."

AUTO REPAIR PARTS

In the pale moonlight like dark statues showed.

The little woodland stream that by me flowed,
And sang in springtime as in sheer delight,
Was silent now, as is an eremite Who broods on God in his austere abode.

I was alone, yet I was not alone, For some mysterious spirit called to me
Out of the night in an exalted tone That was as rapture bient with melody,
Wait for a time when to thee shall be shown
What seemeth sorrow meantth excitant?

Wisps of Wisdom.

I wisps of Wisdom.

I wisps of Wisdom.

I wisps of Wisdom.

I was alone, yet I was not alone, For some mysterious spirit called to me
Out of the night in an exalted tone That was as rapture bient with melody.

Wait for a time when to thee shall be shown
What seemeth sorrow meantth existing the shown when the should show the should our assistants are as amiable as a father who is trying to marry off his daughters without giving them any downy. You will always be greeted as a cordially as a spell of sunshine coming toward the close of a pouring wet day.

"Ay, Agnes, but dost thee regard me with the feeling the world calls love?"

"Ay, Agnes, but dost thee regard me with the feeling the world calls love?"

"I health hour what the meaning towards to love one another, are we me with the feeling the world calls love?"

"Ay, Agnes, but dost thee regard me with the feeling the world calls love?"

"I health hour what the meaning towards to love one another, are we we will be a specific to the meaning towards the lining."

The inner side of every cloud. Is bright and shining. I therefore turn my clouds about, and always wear them inside our To show the lining.

## Sandalwood.

Sandalwood is the production prinness.

Education is life's apprenticeship; its chief aim is to teach us how to both of which places the industry is think.

Success is a thing that some are content to envy in others—and some achieve for themselves.

almost a monopoly of the government forest reserves. Due to the development of the sandalwood oil extracting achieve for themselves.

When a man hasn't a good reason has steadily declined, while that of the

When a man hasn't a good reason for doing a thing, he has one good reason for letting it alone.

If you lack confidence in your own judgment, you can't blame other people if they share the feeling.

The man who wins is the man who holds on until he can hold on no longer—and then doesn't give up.

Let the man who has to make his fortune in life remember this maxim: fortune in life remember this maxim: pare, and the world always yields. If it beats you sometimes, dare it

### "Pape's Diapepsin" for Indigestion.

To plant a 100-foot row of vegetables in the garden, buy seeds as follows: Beans, one pint; beets, two ounces; cabbage, one packet; carrots, one ounce; cabbage, one packet; carrots, one ounce; cabbage, one packet; carrots, one ounce; cabbage on packet; carrots, one ounce; cabbage on packet; carrots, one ounce; cabbage of the carbon of t

one packet; parsnip, one ounce; peas, one to two pints; peppers, one packet; I never saw so many fields yellow potatoes, six to seven pounds; pump-kins, radishes, salsify, spinach or One thing is sure, we can not buy squash, one ounce; tomatoes, two seed at random and expect all timothy packets; turnips, one-half ounce; or clover. A careful analysis is the watermelons, one ounce. of mustard and other foul seed; or od grass seed. We have only to put big spoonful in an envelope, address t to the Dominion Experimental HARD ON BABY it to the Dominion Experimental Farm, and back will come the correct analysis. Then it is our fault if we have fields of mustard after that.

The large farms in South Lincoln shire, England, are so perfect that they are more like factories than

Those Having Sick Animals SHOULD USE





# **DANDERINE**

Stops Hair Coming Out; Thickens, Beautifies.



One of the company, with biting sarcasm, suggested that it must have been a whale.

"A whale, be hanged!" replied the sailor; "we baited with a whale!"

A few cents buys "Danderine." After a tew applications you cannot find a fallen hair or any dandruff, besides every hair shows new life, vigor, brightness, more color and abundance.

# Humor

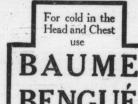
Oh. For One Fault.

"I hardly know what to tell thee. to bestow my love on all, but I have sometimes thought, perhaps, that thee was getting rather more than thy

## "Cascarets" To-night

The ideal soil for a peach-orchard is a warm, gravelly hillside. Even sandy soils are excellent for peach-growing ing corn, instantly that corn stops if the sand is not too fine and the hurting, then shortly you lift it r drainage bad. Heavy, cold clay soil off with fingers. It doesn't hurt a drainage bad. Heavy, cold clay soil is unsuited to the peach. Plum trees are naturally adapted to stiffer soils than the peach.

You are not capable of correct judgment, of using good sense, when there is fear or doubt or despondency in your mind. Sound judgment comes from a perfectly working brain,



BENGUÉ has immediate effect. EWARE OF SUBSTITUTES \$1.00 a tube.
THE LEEMING MILES CO., LTC
MONT REAL
Agents for Dr. Julen Bengu

# Agents for Dr. Jules Bengu RELIEVES PAIN **ASPIRIN**

Only "Bayer" is Genuine



Warning! Unless you see the name "Bayer" on package or on tablets you are not getting Aspirin at all. Take Aspirin only as told in the Bayer pack-Rheumatism, Earache, Toothache, Lumbago and for Pain. Then you will be following the directions and dosage worked out by physicians during twenty-one years and proved safe by millions. Handy tin boxes of twelve Bayer Tablets of Aspirin cost few cents. Druggists also sell larger packages. Made in Canada. Aspirin is the trade mark (registered in Canada), of Bayer Manufacture of Moncacetic acidester of Salicylicacid.

# **USE SLOAN'S TO** WARD OFF PAIN

You can just tell by its healthy, stimulating odor, that it is going to do you good

going to do you good

"I F I only had some Sloan's Liniment!" How often you've said that And then when the rheumatic twinge subsided—after hours of suffering—you forgot it!

Don't do it again—get a bottle today and keep it handy for possible use tonight! A sudden attack may come on—sciatica, lumbago, sore muscles, backache, stiff joints, neuralgia, the pains and aches resulting from exposure. You'll soon find warmth and relief in Sloan's, the liniment that penetrates without rubbing. Clean, economical. Three sizes—35c, 70c, \$1.40



## Classified Advertisements.

AGENTS WANTED.

NTS-WHO ARE GOOD PRO UCERS-wanted to represent old insurance company whose policy

A GENTS WANTED: BLISS NATIVE Herbs is a remedy for the relief of

And always wear them inside out To show the lining.

The Island of Madeira almost live on its embroideries. More than 40,000 are engaged in this work. Ninety per cent of the embroidery, amounting in 919 to a value of \$1,780,799, goes to the United States.

For Constipation The first national census of Japan



Your druggist sells a tiny bottle of





# MOTHER!

"California Syrup of Figs" Child's Best Laxative



Accept "California" Syrup of Figs only—look for the name California on only—look for the name California on the package, then you are sure your child is having the best and most harmless physic for the little stomach, liver and bowels. Children love its fruity taste. Full directions on each bottle. You must say "California."

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