Studies to be Made Affecting Many Activities

During this month scientists of thirty-three nations will officially be-

which this organized international elfort is known. Despite the world-wide depression, some of the poorest countries have agreed to assume the extreme have agreed to assume the gaging in work called for by the program—evidence enough that the Sec-ond Polar Year is an enterprise of the highest scientific importance. Many Countries to Take Part

The list of countries that will man stations in different parts of the world funcludes Argentina, Austria, Belgium, Brazil, Bulgaria, Canada, Denmark, Great Britain, Estonia, Falkland Islands, Finland, France, Germany, Hungary, Iceland, Italy, Japan, Mexico, Netherlands, Norway, Poland, Spain, Sweden, Switzerland, and the Union of Soviet Socialist Republics and Turkey. Even nations that do not appear on this list are not indifferent to the importance of the Second Polar Year. had achieved some distinction as an arctic explorer, suggested that stadrifted a shadow from whose depths an effort, almost in a straight line.

bird's glaring eyes. At the bottom of a large hole in the tree-trunk her and explorer's country.

Sclence moves so rapidly that studies will be made, during the Second Polar Year, of phenomena which were unknown a hair century ago. When the First Polar Year began, in 1885, there was no radigit, there had been no systematic exploration of the atmosphere by sounding balloons; there were no airships and airs

method it has been discovered that there is not only a Kennelly-Heaviside layer, which reflects the very long and moderately long waves from a height of perhaps sixty miles, but an upper layer, named after Professor Appleton, who studied it carefully, which sends back the short waves which are now being used in what is called beam transmission, as well as in other forms of transatlantic communication. of transatlantic communication. the black cedars. As she neared the

It is supposed that ultra-violet light note of a turkey hen who had persist-from the sun electrifies the upper Apel of in roosting on a tree instead of in pleton layer and that the properties the barn. As the independent fowl the lower Kennelly-Heaviside layer are due to electrons. But suppositions are not knowledge. Hence the need of scientific study at Toronto and elsevance.

where.

Moreover, the question remains to be answered whether there is any connection between the aurora and these two layers. Radio messages take the beside her. Inch by inch she was shortest path. When we send a telegram through the ether to Manila, the waves that carry the signals will, of fell flapping into the air, protected no course, travel in every direction, but those detected at Manila will have Before she could reach the ground traveled along a great circle (always the fierce bird was upon her, and her the shortest path on a globe), and life went out under the owl's cruel hence by way of Alaska in those high latitudes where disturbances in the relatitudes where disturbances in the relation of the fowl's breast, the owl skinned it as neatly with her crooked

to occur. Not only science but the beak as a man could with a knife, business man accustomed to send and came back to her nest full-fed.

A few days after the farm-yard raid came one of those sudden hot searches that will be conducted in this days found in every spring. The brooding owl, in her winter coat of feathers, gasped for breath as the temperature within the gum-tree rose steadily. At last she could bear it no longer. Warning her mate, with a double-hoot, to watch the nest, she fiew down the stream until she reach-

Night Marauder

magnetism, atmospheric electricity, earth currents, auroral displays, weather and that intangible electrical mirror which is known as the Kennelly-Heaviside layer and which makes it possible for us to send radio messages around the world.

"Second Polar Year" is the name by which this organized international effort is known. Despite the world-wide. I want you to know that the clover smells are that sinks and swells as the wind comes up from the sea below.

And the boughs of the spruce swing to and fro.

I want you to know that the clover smells a double-hoot, to watch the nest, she flew down the stream until she reached a concealed cove. There, in the dusk of the dropping trees, she sat like a brown stump r the water's edge, staring inscrutably into its depths. At last, as if called by the spell of that fixed gaze, a large cat-fish rose through the brown water. Slowly as the minute hand of a clock the black body floated upward till it

foot ripped through the water and clamped its claws into the smooth back of the fish. Shedding its slug-Samuel Scoville, Fr., Nature's Magat zine (June, '32).

gishness like a mask, the black summer struggled desperately, lashing the water with its long smooth tail

importance of the Second Polar Year.

Second Polar Year implies a First

Although it was faint and far away,

Line grossily call of the great normed hunt for food. When the snake reached the foot of the owl-tree, it seemed to the foot of the owl-tree owl-tree owl-tree owl-tree owl-tree owl-tree owl-tree owl-tree owl-tree owl-tre Folar Year. In 1875 Lieutenant Karl an indescribable menace seemed to to sense the presence, high above it, who was raint and far away, to sense the presence, high above it, thrill through the weird notes. A few

arctic explorer, suggested that stations be established in high altitudes and that at these the weather and the electrical and magnetic manifestations of the atmosphere and the solid crust be studied for a whole year by scientists of all nations. There had been no systematic observation of phenomena which, in Weyprecht's opinion, were worthy of as much attention in the interest of humanity as the new land that was claimed in the name of an explorer's country.

Identified a shadow from whose depths two dreadful eyes flared like fire. The next instant a great owl, some two feet high, sat perched on a dead limb of a sweet gum which overhung the water. Its plumage was a blending of black and gray and tawny, with a broad white collar, while an angle of black feathers on its forehead gave a scowling effect to the bird's glaring eyes. At the bottom of a large hole in the tree-trunk her nate brooded two white eggs the rattles of a timber rattlesnake.

mirror without which there could be no radio communication over vast distances.

When Marconi first decided to send wireless messages across the Atlantic, there were many physicists who were

Young Earl of Egmont Arrives Back Home



The young Earl of Egmont, son of Alberta's late rancher earl, is back in Calgary among the hometown folks and is seen here at recent cowboy contests.

The Schminkus Detonating Ray

The Schminkus



He-"I wasn't going to take any racation this summer but the boss

Tongue Twisters Here is a tongue twister to try to





This is the season for ocean flights and here we see Elvy Kalep Miller who wants to make a record flight from New York to Greece.

20-Year Search

Reveals M

RE IS YOUR

the two million delighted

that permeates this gor-

geous 350-acre-lakeside

park and its scores of

permanent and costly ex-

Great Britain's finest brass

What programmes,

H. W. WATERS

(From Poetry)

position edifices.

Over \$500,000 Spe 50,000 Years

For more than twenty year has been directed toward loc the buried meteorite at Meteo near Winslow, Arizona. his search at more than 3:

Recently, Meteor Cr Exploring Company, the pre-erators, drilled for the meteo tudies conducted during the of 1930. These drilling proved the correctness of the "Meteor Crater, which aigh plateau of

about twenty miles s low, is a bowl-shaped epression about 4.50 ter and 600 feet deep. surrounded by t tands about 160 fee ral level of the platcau. ter has long been a Meer and is visited annually by f people.
"The origin of the

any years been the subject ussion. Two theories have garded as the most probable tion. The first, not prove held cha' the crater as for meteorite, or swarm of meteo terial, striking the earth at locity, and burying itself. theory held that the cra result of a 'steam' explos buted to the accumulation of ons or gases." Briefly, the reports gaw

esults as follows: "1. Geological examination that the grater was meteor than due to a steam exp disclosed evidence that the still existed at depth in the sor ern part of the crater. dence placed the age of the be measurable in terms of the of years, probably about 50,0

Of course, it is easy to say the meteorite in the soul Exposition pageant Olympic athletes from this year's games; Seventh Marathon Swim for world championship; two Art Galleries; all branches of Agriculture; Engineering.

TAND RESERVED SEATS: and \$1.00 Box Seats \$1.50 each VOICE EXHIBITION CHORUS Ground floor reserved 75c. \$1.00 for Box Chairs They tried to tempt the tattered showed the presence of nickel. "The second drill hole, as far cheque or money order without delay anadian National Exhibition, Toronto.

They tried to tempt the tatters tramps to take the toothsome tarts.

Where's the Frenchman's farthing tarting the first transport of the first. rancis Fribble figured on?

The critical cricket critic of "These results are evidence reliability of modern methods "These results are evidence physical prospecting. In the fi ordinary mining exploration, Child in a Garden Welcome disappointment! Thy tres. Such geophysical studies hand is cold and hard, but it is the secure subsurface geologic data

the physical frame, ready to be directed to tongue, or hand, or foot, hither, thither, anywhere, and for With sorrows that thou wolls

If thou wouldst read a

will keep Thy heart from

my use desired .- S. Coley.

two classes"

chickens." .

"How's that?"

"Those who think they know how

to raise children and those who

think they know how to

DEATH

of our finite existence to another .-

Death is not a break in existence;

sure! O joy! His Mother's knee eeter was than she now upon my heart, and speechless. with more than art.

ent flesh and frail! pirit's holy veil! er than the leaf-April's first herald of the sheaf— trims the poplar bough emulous light,

grow strong and tall, infinite. spring air is blowing?

> and charm the land. Good Work ig in the world.

it is but an intermediate circum-stance, a transition from one form

Soul from steep,

Go to the woods and hills—

Dim the sweet look that wears. TWO WORDS The heaviest words in uage are the two yes and no. One stands render of the will, denial; one for gratification er for character.-The

GREAT POWER ... The possession of great poly doubt carries with it a conte

Make and Keep Children Well - As Mothers Know

See the Show Window of sign is along the lines adopted for subthe Nations, mingle with | marines.

gaseous state. ited States Department of Agricul-

Fiddle-Wood What is a violin? "Besses - o' a.th' Barn," What is a violin: Who shall to eal this

thin band and thirty other Vibrating wood? leading military and Of forest voices multi-voicedconcert organizations; Wind, rain, on many leaves, four appearances of inter-Bent branches moaning under nationally famous 2000. The crash of clouds that meet, Voice Exhibition Chorus; The cool pale hiss of snow? Kaye Don with "Miss And birds?

England III"; "The And pattering furry feet? Triumph" 1932 inspiring (Young cries among the leaves!) All musics and all seasons Seeping and soaking in, Into the very core Of the green bud Of destined fiddle-wood-Long long before The master mind conceives The master hand achieves The carven whole, The curving sides, the twisted scroll

Shapes it and stains it to this red russet thing Names its adolescent voice. Fondles it, fingers it, Breasts it!

How light it seems, Swinging between the finger and thumb, How frail this unbarred stronghold tricts, in the event that a domestic Of sweet gold-All fortunes and all raptures and all sary. dreams-

Kind horn of plenty! And who shall count the glittering New Colors for Fall Chosen sum? -Leonora Speyer, in "Fiddlers" Farewell."

Empire-Made Butter Sales

Lancashire by agents of the Empire plications providing a few (such as Marketing Board has resulted in an "love-in-the-mist"), and a modern soft.

Style No. 2948 is designed for darketing Board has resulted in an arrevent of those stocking Empired drink orangeade) helping out the genal scheme. arketing Board has resulted in an made butter from 43.3 per cent. to erai scheme.

73.5 per cent., according to the report of the board just issued.

In 11 of the largest Lancastrian briarwood; yellows, marigold, musk, and 40 inches bust. Size 36 requires 2% yards of 39-inch material.

Another delightful scheme is yellow line with the property of the largest lancastrian briarwood; yellows, marigold, musk, and 40 inches bust. Size 36 requires 2% yards of 39-inch material.

Another delightful scheme is yellow line with the property of the largest lancastrian briarwood; yellows, marigold, musk, and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches bust. Size 36 requires 2% yards of 39-inch materials and 40 inches 20 yards of 39-inch materials and 40 inches 20 yards of 39-inch materials and 40 inches 20 yards of 39-inch materials and 40 in ade butter from 43.3 per cent. to eral scheme.

cities a total of 7,224 stores were and orangeade; reds, holly-berry, nasvisited. It was found that 3,129 turtium, peony, damson juice; greens, chestnut leaf, Gretna green and lovetter, but after the visit the total bird green.

wn to-day."

Cost of World War

Dr. John Maurice Clark, professor of economics, Columbia University,

has figured that if the war debts are

not collected the tangible costs of

the World War will be increased from \$52,000,000,000 to \$90,000,000.000. The

net benefits were probably somewhere about midway between 29c and

I never knew a man who was good

weeds."

rose to 5.312. "The board are of the opinion," says the report, "that market promotion by retail canvass affords a most promising method of extending the onsumption of Empire produce in this country. The district which was selected for experimental pur--Janet Lewis. poses in the case of the butter canvass was one in which it was known that foreign butters were predominity for good work, of the ant and where the greatest consumgoes on without trumpets, is er resistance to such a sales campaign was to be expected."

eat is Hard on Babies!

But Mothers Find Protection and Relief for Them in BABY'S OWN TABLETS

e of BABY'S OWN TABLETS and in the work of the work of

ose of BABY'S OWN TABLETS tht, and in the morning they are y and contented children and are asure to cope with", writes Mrs. Mason, Halifax, N.S. George H. Walker, Thomasburg, says: "I have found BABY'S TABLETS the best of all chilremedies for Summer Complaint, Teething and Constipation."

Y'S OWN TABLETS are excel
DD WILLIAMS TABLETS ARE THE METERS OF TABLETS CAN DE TRESS AND TABLETS ARE THEY ARE THEY

DR. WILLIAMS' ABY'S OWN TABLETS

Flying High Three-on-a-Match Wartime Superstition? COULD NOT BUTTON

As he shoots upward into the rareaed air nearly two miles above the "Three on a match? No. thanks, surface of the earth, the pilot of the not for me! I'll light my own!" new "stratosphere" plane finds that So say many of us, smilingly, bu he is hermetically sealed in his cabin nevertheless more earnest than we with compressors supplying him with would care to admit in our deference

A special compressor brings air into the pilot's cabin, which is hermetically an argument as ever gave rise to a closed at 9,000 feet. The cabin de- superstition!

Special devices maintain regular Vine Yields More Rubber visitors, seize the spirit pressure and temperature for ofl, air A hy rid rubber vine which yields that grips and thrills, and water, while the gasoline fuel is twice as much rubber as either of its made to pass directly from solid to parents has been produced by the Un-

ture near Miami, Fla. It is a cross between two plants both native to Madagascar one long grown in Flor-

ida as an ornamental, and the other naturalized in many places in Mexico and the West Indies.

The planting of Madagascar rubber

vines as ornamentals is spreading rapidly in Florida, Arizona and Southern California, says a recent bulletin from the department. The new hybrid rubber vine showed rubber content between 4 and 5 per ent. in monthly periods of analysis,

reaching nearly 7 per cent. in some cases. The vines of the parent species seldom yield more than 3 per cent. Because the seed of the hybrid does not run true and produce the same type of plant as the hybrid itself, the rubber workers propagate new plants by cutting. The vine is a perennial nd once planted a regular production of rubber might be practicable. Propagation methods are being studied to increase the supply of hybrid material, but none is available for distri-

bution at present.

The department is also experimenting with desert plants which grow in Southern Arizona and California and which show prospects for rubber production. The most promising is a in large quantities in the desert disproduction of rubber became neces-

By British Fashion Creators

London.-In addition to the "Empire Shades" already announced for the Ottawa Conference, British fashion creators are sponsoring an interesting list of colors for the autumn season. Boosted in Lancashire dence again, with nature furnishing of them, but with emotional immost of them, but with emotional imstances are in evidence again, with nature furnishing as a seasy as A, B, C to make it.

And it will cost you next to nothing

snappy with vivid-red buttons and red leather belt. HOW TO ORDER PATTERNS. plainly, giving number and size of such patterns as you want. Enclose ferred; wrap it carefully) for each Wilson Pattern Service, 73 West Adelaide St., Toronto.

"I suppose you think that's Life "I do. I'm lucky to find anything Life is but the edge of a vast ocean in that lawn except dandelions and

> Harley-USED MOTORCYCLES

Kennedy and Menton 421 COLLEGE ST., TORONTO

with compressors supplying him with compressor supplying him with the sensor supplying him with compressor supplying him with the average of the deference of the system-like the system-like put to clear it out of th

usual.

The propeller has four blades which can be adjusted at different angles to give greater grip on rarefied air.

The 400-horse-power engine is set in an air-tight cabin, with three super-charges to increase air-pressure.

A special compressor brings air into

"Be careful of lighting cigarettes work."—J.E.M.

Kruschen dissolves away those needle-pointed crystals of uric acid which are the cause of all rheumatic troubles. It will also flush these cigarettes from the habit.

Kleber—"What started the Grand troubles. It will also flush these cissolved crystals clean out of your system. Then if you keep up "the little daily dose," uric acid will never form again.

Nitt—"Once I saved a man's life but

Furnished with Every Pattern

2948

图

Its as easy as A, B, C to make it.

never got a medal for it." What New York Is Wearing Illustrated Dressmaking Lesson

> Judge-"You told the waiter yea Dakota and Saskatchewan. your bill. Why didn't you return to Five Hundred Frog Farms

nediately rang up a friend.

Is there anything more disconcert ing than to have a June bug crawl up your pajama leg?" To which we ans-

> A Pocket History of Man Dodging girls, Dodging work, Dodging automobiles

Dodging the undertak Mike-"Yes, she's engaged Friend-"Oh, really?"

nounces it O'Reilly."

Mike-"Yes, but I think he

nachine age. A girl's greatest prob lem is not whether to let her hair grow, or which boy to marry, but when keeper may hold his job by getting

Irate Parent-"Didn't I see you kiss y daughter, sir?" Nervy Youth-"How should I know? Do you think I'd be gawking around when I was doing a thing like that?"

month. Orders have been coming in

Number Two - "Railway locom Luxembourg Garden Beehives Paris at heart is rustic. In the midst of all its proud buildings and

little gardens, and the drone of bees. And at the heart of it you will even "What is the most useful creature in the world to mankind?" asked the "Paris almost in the center of it eacher.

"A hen, sir," replied Freddie Wiled corner of the Luxembourg Gar-"A hen?" echoed teacher. "How do There, withir. a hedged enclosure, you make that out?"
"We can eat it before it is born and after it is dead," explained the boy.

Just like some little garden in the country, you may see the hives, some in straw like Byzantine domes, others in wood like miniature cottages. And there you will see the busy bees winging outward to seek the nectar hidden in the garden's flowers, others speeding inward laden with spoils, to vanish into the mystery of

a hive's interior. Sometimes about the little colony you may see a little group of people gathered for instruc-tion in the ways of bees and the secrets of acquiring much honey Not far away is the drone of the nearer is the drone of the bees, soothsomnolent, amid the flowers.—F. G. Hurrell, in "The Lantern Show or

Showers The sower of the seed is assuredly the author of the whole harvest of mischief. Demosthenes.

Owl Laffs

For Health and Happi Here's ten golden rules of Heal

Nitt-"Once I saved a man's life but Witt-"Give particulars, please." Nitt — "An inebriate once came ome to his apartment, turned on only

Jones picked up the daily paper and was astonished by seeing an announcement of his death in an accident. He millions. It takes two years to Jones—"Bill, have you seen the no-tice of my death in this morning's

Friend Bill-"Yes, where are you speaking from?"

wer: "Only one thing, neigh that is having a June bug crawl up your own leg."

Dodging the sheriff,

This is the machine age and about thirty a woman enters the reducing

to stop being twenty-five. Red and white seersucker makes the accounts so balled up that no one this smart sports dress.

The paneled front adds attracelse can understand them. Have you ever noticed that all great men have aceful height to the figure.

Two salesmen met in the smoker of a train. Number One—"Well, I've had a good

Number Two-"I can't say as much. I've had only three orders all year." HOW TO ORDER PATTERNS.
Write your name and address
alive, man! What is your line?"

rush of traffic it dreams of meadows,

At drug, grocery & hardware stores.

Gets the fly every time

A M LOOKING FOR WEEKLY NEWS-PAPER in Ontario which I could lease for a term with purchase in view. Send particulars to Box 12. Wilson Pub-lishing Co., Ltd., Toronto.

25 wo ertion, word.

LEE W. THOMAS MFG.,

WEEKLY NEWSPAPER WANTED.

6.000 Tons of Dust

In a dust storm recently six thousand tons of dust fell on the city of The calculation was hot water to take a bath in, and he based upon the amount that fell on would have been scalded to death only one square yard of pavement. When I happened to be janitor of the building and there was no hot water."

weighed it was found to total 2½ ounces. It came largely from the drought-stricken areas of North

Accused—"I was caught getting the money."

It is estimated that there are higher hundred frog farms in the United States. Los Angeles eats three ted States. Los Angeles eats three millions a year, Philadelphia four millions, and New York perhaps ten raise a bullfrog.

Stops Summer Odors-

The heavy smell which warm weather brings to many people is largely prevented by regular bathing with a free lather of Baby's Own Soap. The delicate aroma dispelsall unpleasantness and the skin feelssorefreshed cool & sweet. Baby's Owns sells at 10c a cake at dealers everywhere. "Best for you and Baby too"

DEAFNESS and HEAD NOISES TRIAL OFFER

At First Signs of Pimples



PURELY VEGETABLE Take them every so often. They'll Keep you HEALTHY Sold everywhere in 25c and 75c red pk gs.



even with the house screened. Hang up Aeroxon—the fly catcher with the push pin and longer and wider ribbon. Aeroxon is irresistible to flies because the glue is fragrant and sweet and will not dry—good for 3 weeks' service.

Sole Agent for Eastern Canada

AEROXON FLY CATCHER

ISSUE No. 34-3'2