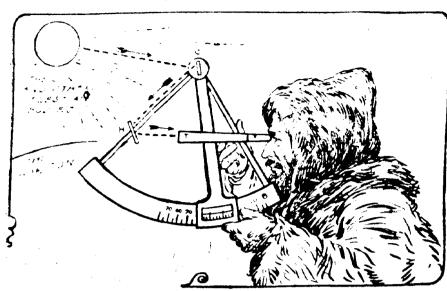
How Arctic Explorers Make Use Of Sextant



local time, or for measuring the an | ments and called a vernier. the between the moon and sun, or the The observer takes the instrument the longitude

ly measured.

intrument give a double reflection of glass H. When the sun is thus made? an angle with reference to each other tion of the graduated are over which equal to only half the angular dis the arm R.M has passed indicates the by reflection. The arc of 120 degrees movable fractional scale or vernier.

thus records the actual angle. are firmly attached to the frame. At British navy.

The sextant, whose service in polar, the top of the frame is a mirror (C trips has been reported by the exclin the figure), which is movable by q-lorers, is an instrument small enough | means of an arm (R-M in the figure) to be conveniently held in the hand, to which it is fastened. C is called and is equally well adapted for meas the index glass and the arm (R-M) uring the altitude of celestial objects, revolves around it. At M is a shifting an order to obtain the latitude and scale for making fractional measure

moon and a fixed star, to ascertain in his hand and holds the telescope horizontally. Looking through the It is called sextant because the telescope he may see the horizon measure is recorded on an arc of 60 through the transparent surface of degrees, one-sixth of a circle, says the horizon glass H. Then, if wishing the New York World. It consists of a to bring the sun into line, he manip frame, usually of metal, stiffened by ulates the mirror C as a child handles tross braces. The arc at the bot a bit of looking glass for the purpose tom of the frame is marked off with of catching the sun's glare and throwdouble the number of degrees actual ing it into the eyes of a companion He turns the arm R-M until the mir-This is done because the fixed and ror C catches its reflection and throws. movable glasses attached to the in it back to the silvered surface of the the objects observed and thus form to coincide with the horizon the sec-? tance between such objects, one of measure of the angle in degrees, which is seen directly and the other which is exactly determined by the

Arabian astronomers are credited Midway on the frame on one side with having used a sextant as far is a telescope and opposite, on the back as the year 905, with a radius of other leg of the frame, is a glass 59 feet 9 Inches. The modern instruvered in the lower half. Both the ment was invented independently telescope (ET in the accompanying about 1730 by Thomas Godfrey of figure) and the glass (H in the figure) Philadelphia and Capt. Hadley of the

British Expedition to Antarctic to Use Motor Sledge.

Capt. Scott, Supported by Royal Geographical Society, to Make Dash by Use of Automobile with 🤼 Runners Under Wheels. 🔉 🐒

London -- Americans may plat the amorth pole and sell corner lots at readuced rates to foster colonization if They wish, but they are not going to he allowed to gain a foothold at the putarctic extremity of the earth-no, tiree. Great Britain's flag is to be planted at the south pole and all the fand and ice and seas claimed for the British crown, just as the north pole was annexed to the United States through the toilsome journeys of Cook and Peary, if Capt. Robert F. Scott's plans succeed. And when Capt. Scott dashes across the southern ice fields a new record will probably be made by the automobile, though there will to runners under the wheels.

"Capt Scott, who commanded the tational antarctic expedition of 1900 1904, will lead another British expedition to the antarctic regions, starting about the first of August next. The expedition will be supported by the Royal Geographical society.

The equipment will include ponies, glogs and motor sledges. The motor mledges, says Capt. Scott, bid fair to become the most promising method of kransportation. The motor sledge has been evolved as a result of two years of experiments in the snow in Norway, and, among other advantages, Las sufficient length to bridge danger-LUB CIEVALNER.

Capt. Scott sets forth the uses to which he purposes to put each means of traction, but intimates the final sinch for the pole may be by picked men and dogs. The preparations are altogether for a more ample equipment than any hitherto used.

Capt. Scott figures that the expedition will cost fully \$200,000, and to raise this amount considerable subscriptions have been offered. He apteals to the nation to subscribe liberally to secure to the British empire the honor of achieving the south pole According to the present provisory. pcheme, there will be two hases, one at MacMurdo sound and one in King Edward Land, if the latter is reached In addition to trying to reach the pole. the expedition, it is hoped, will acromplish valuable geographical work

in King Edward Land In a long letter detailing his plans Capt. Scott says he believes the King Edward Land base is 400 miles east of MacMurdo sound. The dash to the pole will be made from whichever base the circumstances favor.

It is understood the expedition will doot include Lieut. Shackleton, who reached farthest south, but several ether members of Capt. Scott's former expedition will accompany him.

the American aeropianes

DAIRYMEN GO TO CREAM CITY

Twenty Thousand Visitors Are Expected in Milwaukee for the Expomition Next Month.

Milwaukee - The greater part of attendance of the national dairy show. to be held in Milwaukee, October 12 to 24, will come from the central west. but progressive dairymen from every state in the Union have assured President Colon C. Lillie of Coopersville, Mich., that they will be present. Arrangements are being made to accommodate about 20,000 representatives and delegates.

There will be an exposition of evcrything allied with the dairy interests, including a model dairy in operation, a working herd in charge of government officials and experts of national reputation, and over 600 head

Michigan, Ohio, Indiana and Illinois will lead in the numbers of dairymen that will attend the show, which will include an exposition of machinery covering a floor space of 59,000 square

Ten conventions of national organizations of dairymen, butter makers, cheese makers, wilk dealers, freight agents and kindred organizations will meet in Milwaukee at the same time in the new auditorium.

Dairymen noted for their wide knowledge of progressive methods will address the conventions in the main hall, accommodating 7.500

THEY RACE AT 90 AND 91

Two Aged Pennsylvanians Sprint for - 100 Yarde-Elder Man Proves Better Runner.

Pittsburg, Pa.-Athletic guides do not show the world's record for a 100yards dash made by men above 90 years of age; consequently two citizens of Kittanning, near here, are debating as to whether one of them holds the record for the distance. He can claim a world's record, and the! chances are that few will come forth) to wrest the laurels from him.

Nevin Kerr, aged 91 years, is the man, and his opponent in the race was Samuel Clarke, aged 90 years. The men had been discussing Marathon contests, when the argument became so heated tabt it was decided to

settle the case by a race. A course of 100 yards was laid down the main street, and the whole populace turned out to see the unique event. Kerr's wind proved better than that of his opponent, and he won by two yards.

Whole Street Has Sneeze, Dublin.-An amusing street scene occurred in the center of Dublin when a horse drawing a chemical company's van stumbled, and among the articles thrown on the roadway was a carboy of smelling salts, which broke. The driver was at once selzed with a violent attack of sneezing, and those who went to his assistance, as well as the crowd which gathered, soon became France finds it impossible to lose similarly affected, the result being a THOM SHIND DUTING MIGHT 7.51 3 Mountain Torrest Siensed n a Few Fous by the In-

tensa Cold

Element water is asserted the bast thing to these solid, and moral tidens. is the condition as the property Carly White, in the track of west the state of the state of the special contributions of the state of th eto ki dina very kaja i the treezing of a motion of forest in la single night.

The phenomenon was enough to lave toever before expensioned a running for refresen sold in a note. When we are, gother was earline stream, trabling over the great must ders and rushing through the torthogachannels, made a decepting roar Gradually, but almost perceptibly the tumult decreased, while, worn out after a hard day, we fell asleep.

A few hours later, when we awoke, a deathly silence prevailed, and on looking out, to my intense surprise, I found that the rushing torrent of the previous night had been transformed into a solid mass of ice! In this region of extreme temperatures I had on other occasions seen torrents frozen, but never under such startling conditions. On looking round, we found that everything we possessed was also frozen solid, including our saddle of mutton, which was merely a block of ice. We were ravenous. but we got no satisfaction from gnawat lumps of rock which ought to have been a succulent joint, and so, despite our hunger, we had to content ourselves with a little tea-to make which we melted ice-and a few bis-

EXAMPLE OF PERFECT FAITH

Mexican Lover Believed Sweetheart's Story Before Evidence of His Own Eyes.

For the past week the physicians in charge of one of the sanitariums here have been dealing with one of the most puzzling and obstinate cases of eye trouble ever brought to their notice, declares a Puebla (Mexico) correspondent. Their suspicion that the subject was nothing the matter with his eyes was confirmed to-day by a naive confession made by the

The man's name is Estanislao Ruiz. He stated that he lives at Cholupla and shortly before coming here he was shocked one evening, upon passing the house of his novia, to see her kissing a very dandily dressed stranger through the bars of her window Fearing that he might cause a scandal by interfering, he retired quietly, and later in the evening returned to speak to the young lady about it. She denied the matter emphatically.

he maintained. "Do you believe your dulce or do you believe your eyes?" she demanded

triumphantly. "I believe my dulce." he answered There was a hearty embrace and he came here immediately to have his eyes treated.

At the Half-Century' Mark, Youth is eternal to him who believes in eternity. To me youth means any where from eight onward. I was an exceedingly old person at eight and I trust I violate no confidence when I confess a vouthful exulurance that I have bumped against the halfway post. Fifty is a splendid time for youthful expansion; one's fancy still retains all its ingenuity while one's judgment is bettered by experience. When sitting on the 50 milestone the vane of man's vision points southward to the past and northward to the future with a minimum of oscillation. Rancorous thought and spienetic expression give way to quieter nerves and calmer view, and the mellow lighted vista of the years that have gone soften the heart of the youth of a half century of years.-John Philip Sousa

Dresden China.

in the Circle.

Judging by your recent note, writes a correspondent, it seems that the geographical knowledge possessed by girl typists is about on a level with that possessed by the damsels who represent the postmaster general behind the counters of our suburban post offices. Having occasion recently to telegraph funds to a town in Germany, it became necessary for the clerk to consult the post office guide. After a long and fruitless search I ventured to suggest that she was not likely to find the town I wanted in the section devoted to the celestial empire, where she was looking. "Not under China" she retorted superciliously. "You said Dresden, didn't

Labor That Aids the World. It is true that all wealth comes from labor, but not necessarily from labor by the hands. The thinkers of the world have added inestimably to its development. It was a portrait painter who invented the telegraph, a college professor who produced the telephone, and the list might be extended almost indefinitely. It is well that to-day, with all our indulgence in rest and play, that we remember that it is intelligently directed energy of whatever kind which makes man better and helps along the world to the millennial dawn

Knicker-It is said that you can be Well educated with a five-look book-

Flatter-What would you get out of a folding bed that looked like a bookDAY OF REST AND PLTIGUAG

Filipinos of Both Sexes View Carry a Time of Enjoyment—The Market Women

It is the women was market in produce. Elarly each morning and lines of the confirmer will be a thorough country in the a most south and they kets of wares on their needs, early seem striding along the mercer terms toward the capital city where must exits held, says a Manila come-sponders Freng and happy, they waste

The oth the streams and the next cotton out to one another as they go and only stopping to get a first light for their cigars from some one or their number or some one whom they chance to ricet. Once at market shew chat, smoke, laugh and batter for hours over a few small tomatoes, some green squash, a live chicken. eggs, fruit, sugar or anything they happen to have, and toward noon they straggle home, having had a good visit and sold or exchanged their

Sunday is the one really strenuous day for the Filipino It is the big market day when people come from all the surrounding country, and it is the time when cock-fights are allowed. Men spend a good share of their time during the week in training their pet roosters, and on Sunday, carly and late, they can be seen going to and from the pit, carrying their game-cocks under their arms.

Excitement runs high and their joy ous shouts can be heard for a long way. Some women attend the fights, but most of them do the double duty of attending mass and then patronizing the market, which is just across the street from the church. All day Sunday they are active and excitable but the next day they settle back into their quiet, uneventful lives.

SUBTERFUGE NOT A SUCCESS

Crosby Doesn't Know Whether Wide Detected Trick or Really Was in Unselfish Mood.

Crosby had always been inclined to conservatism in household expenses, especially in the matter of his wife a dress bills, relates a writer in the Sunday Magazine. His wife went so

far as to say that he was penurious: She had been in need of a new boa for a long time, and after she hinted that her happiness would never be quite complete till she had one, he at last consented to make the purchase. He went into a store and picked out two, one of which was a cheap imitation affair, and the other a fine expensive one

Taking them to his office before going home, he changed the price marks, the expensive tag on the cheap DOR and vice versa.

His wife examined them for a long time very seriously indeed, and then said, "Now, dear, the expensive boa is a beauty, and it is really very good of you to allow me my choice. Some women would take it without a word; but really I don't think we can afford the more costly one, and besides, dear, I think the cheap one the more stylish too. Why, Cros, dear, what's the matter? Are you ill?"

But dear old Cros had made his getaway into the night where he could kick himself as hard as he felt he deserved. But what he would like to know, is this: Did his wife happen on the more expensive box by pure accident, or-

Possum Hunting in Queensland. Among the ways of earning a living in the colony of Queensland the collecting of fur skins combines considerable profit with a fine, adventurous life in the open air in the "bush." the term which describes all country parts, plain, hill and forest away from the settlements.

The possum is protected by the government of Queensland till May 1, on which date young men issue forth for a campaign against the wily animal whose skin makes such beautiful carriage and other rugs and forms the material for ladies' furs all over Europe. Formerly shooting was resorted to, but now trapping is found to be the most efficacious means of securing a good bag. Most of the trappers work in couples or employ a native, and snares of thin wire are used.

Holy Days. Dr. Hale and the late Bishop Huntington of New York were fast friends. The latter had been a Unitarian and bls shift caused a sensation. The Episcopalians have saints assigned to the various days in the year. When an Episcopalian minister writes a letter on any day for which there is a saint, he always writes the name of the saint at the close of the letter instead of the date. Bishop Huntington learned all these things quickly, and began to practise them at once. The first time he had occasion to write to his old friend, Dr. Hale, after joining the church, he placed "St. Michael's Day" after his signature. A reply from the doctor came, and after his name he had written in a full, round hand, "Wash day."—Christian Regis-

The "Austrian Lip." The thick and prominent underlip that has long been characteristic of the house of Hapsburg was dubbed the "Austrian lip" many years ago. This feature was derived from Cymburgis, daughter of Ziemovitz, duke of Masovia, and uncle of the then king of Poland. She was noted for her great beauty and unusual strength. The house of Hapsburg owes not a little of its strength of character and imperialism to this remarkable woWOMAN SMOKER LIVED LONG

Mary Fith Highway Shotten the First of mor Sex to use Tabacco in England,

Mary Programme, Armen as Marin Compariso, visited to the type of the control of this time to be provided the region station of many the thirty via spring of

on the felial in Chain and The length of her day, is a subject point, but it seems no an tam sees attained the age of as a fire expans Years and ten of this assemble that can Stort smoking problem or get the A. postfrait representing the most of section smoking forms the tomal power of Middletop come to of the Course Girl " She also figures in other plays. of the period

Mary was the daughter of a show maker living in the little an, and Malone gives 1581 as the date of herbirth. She early took to wicked water and became a noted "highwayman" Among her familiar triends were the notorious Capt. Hind and Richard Hannam. She was an expert swordswoman. Single-handed she robbed on Hounslow Heath. Gen Fairfax of 200 gold jacobuses, shooting him through the arm and killing two of his horses on which his servants were riding For the offense she was committed to Newgate, but on paying the general

£2,000 she obtained her liberty At one time Mary had £3,000 of her own, but by giving money to distressed cavallers she died comparatively poor. Her death took place in July, 1659, and she was laid to rest in St. Bridget's

ARE USED TO BEING CROWDED

Passengers on New York Street Car Sit Close Even When It Is Not Necessary.

The woman with a sense of humor smiled. It is funny," said she, how content some people are to sir

jammed together in the cars " "But they can't help themselves,"

protested her companion "I know, but I refer to the times when they are not obliged to occupy the same six inches with their next neighbors. When a crowded car be gins to thin out, most people expand, but some forget to. I have seen the women who has been shopping squeeze into a seat beside a laborer at the rush hour, and, just as often as not, she continues to tickle his nose with her plumes clear up to Harlem, after the car is half empty, and to rest her bundles on his lime-coated overalls.

"One night, quite late, away up town on a Broadway car, a young man and young woman sar propped together midway of a long empty seat There was not another passenger left in that side of the car. They paid no attention to each other, and I supposed that they, were too tired to talk, It was quite a shock to my calculations when the young man got off and left the girl sitting apathetically in the empty seat. I had estimated them as first cousins at the furthest "-New

Scales for Dyspeptics.

"When I got my last prescription made up the druggist showed me a pair of pocket scales for weighing food," said the sallow complexioned man. "He said he could tell by the have to be mighty careful about the quantity of food I ate, and he urged me to buy the scales so I could be sure not to overeat. They were the first scales designed especially for dyspeptics I had seen. They cost two dollars. No doubt they could be used for weighing other things, but that druggist offered them only to customers whose digestion was out of order. The scales were small enough to be carried conveniently and they reg istered rations light enough to starve a canary. I did not buy, but the druggist assured me that many persons who are on a strict diet have provided themselves with pocket scales on which they weigh every bite they

Worst Pest Than Brigands. On the highways of turbulent Catalonia one might expect that the chief danger to the traveler would be 2 brigand. By no means! The greates pests are the small children, who accost one at every turn. Treated with the utmost consideration by their parents-they are never corrected it is said, in any circumstances wharsoever-they track the foreigner, with the irritating pertinacity of the mosquito. And, like the mosquito, they seek blood, crying:

"I have neither father nor mother! Cince centimos!" And the grubby hands shoot up into one's face

The Consoling Volume. There was a backward student at Balliol who, for failure to pass an examination in Greek, was "sent down" His mother went to see the master. Dr. Jowett, and explained to him what an excellent lad her son was. "It is a hard experience for him, this disgrace," said the old lady; "but he will have the consolation of religion, and there is always one book to which he can turn." Jowett eyed her for a moment and then answered: "Yes, madam; the Greek grammar. Goodmorning."

Why Mary Recovered. "John, I don't want you to grieve too long when I am gone,"

"I shall have to look sorry for a week or two. Mary, just for the looks of things, but I shall perk up after that and begin to take notice. Don't you think Widow Jinx is a fine lookin' little woman?"--Houston Post

THROUGH COMBAT TO VICEOUT

Others, Vigo ous Characher A lives at Fluiton by Weeldling Will Hollan Cresconing Obots iss.

street as some charge of difficulty of stthat expresses in an appropriate of perfection

William to the application of straight Continued to the second of the second of the second of ा कि दलोग का 🤻 । अन्तर्वेद्ध है है। they contact overcoming cays to con-880 " Marden in 3 orgss On the other policies we do it indicates to

find out the process of each more as are, the habit of leaving things if it of golding instead of congoration the lack of courage, of person and or

There is the same difference be tween a self-made young man winhas tought his way up to his own loaf, and the pampered youth, who has never been confronted by great responsibilities that would exercise his powers and call out his reserves that there is between the stalwart nak which has struggled for its existence. with a thousand storms, with all the extremities of the elements, and the hothouse plant which has never been allowed to feel a breath of frost or a

rough wind Every bit of the oak's fiber has reg istered a victory, so that when ittimber is called upon to wrestle with storms and the fury of the sea, th says. I am no stranger to storms, I have mor them many a time before I feel within me staming and fiber to resist the fury of any sea, because I have fought and overcome its equal % thousand times."

The hothouse plant succumbs to the first adverse wind

AS THEY DO IT IN ENGLAND

Family Inherited Postmastership. Though the Department Officials Didn't Know It.

Forty years before, as quite a loy, ones had left a little town in Kent Now, on the first long vacation he ever had had since, he was visiting his childhood scenes. He had remem bered that the postmaster's name was Pengelley, and he had remembered too that he was a kindly old man There wasn't the slightest probability he thought, that the postmaster was still alive, but his acquaintance with the former incumbent might smooth things a little, with the new one, so that the whereabouts of people to show he had been directed would be nade krown.

What's become of Mr. Pengeller" he asked; interrupting for a moment als majesty's letter assorter "I am Mr Pengelley"

"Perhaps, you're his son Yes, my father's name was Peagelley, too," drawled the Englishman "I mean the postmaster"

"Bo do 1 " "Was your father, postmaster 46 years ago?"

"My word, no' That was my grandfather. You see, our names are all alike, and the post-office department doesn't know but that the first one is alive. We inherit this job, don't you know. And my wife's just presented me with a son. There was no baggling over his name."

Music, Birds and Snakes Exceptional love of music would redound to the crtdit of any other living creature as indicative of refined taste. but in the maligned snake even this artistic attribute is a mark of derogation. Our own Quakers, for example, take up and indorse the diatribe of Epiphanius against the flute-players. Observe the figure that the player makes in blowing. Does he not bend limself up and down to the right hand and the left, like unto the serpent? These forms hath the Devil used to manifest his blasphemy against things heavenly, to destroy things upon earth, to encompass the world, capturing right and left such 1987 as lend an ear to his seductions." And so on. But not a word do we hear in condemnation of the unregenerate birds that carol heedlessly even while the minister is painting the horrors of an unmentionable place.—North American Review.

Cheering Her Up.

Islington, which is no longer rural, was once so esteemed by medical mea that they sent their patients there after severe illness. Many also went there in the last stages in the forlors hope that the invigorating air might restore them to health. A story related by Dr. Abernethy turns on the latter class of visitors. One of his patients engaged some rooms in [slington, and casually remarked to the landlady that the banisters on the staircase were very much broken. "Lor' bless you, mam," said the landlady, "it's no use to mend them, for they always get broken when the undertaker's men bring the comes downstairs."-London Chronicle.

Intelligence in the Kitchen,

The higher the intelligence and the broader the education of the woman in the kitchen, the greater the pleas. ure and satisfaction in household du-

The woman who cooks intelligently is commanding great and mysterious forces of nature. She is an alchemist behind an apron. At her command food constituents that are indigestible. unpalatable and even poisonous, are subjected to chemical changes that render them an epicurean delight. The woman of real intelligence and powers of imagination finds in her well ordered kitchen a source of deep and enduring interest and pleasure

L'ABEILLE DE LA NOUVELLE-ORLÉANS

afrancine im Logistene d'éans tone loi Rinte du But. No publishté after donc est commerce des avantagent expertisements. Prix de l'ancour, ... just l'angel, il Billi ni Ountilly-ve 152.5.