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Natives Use Sun, Stars and Birds As Guide Over Trackless Sea

Auckland, N.Z.—Primitive skill in navigation, which enabled the Maoris to reach New Zealand over a wide stretch of ocean, is preserved unspoiled among the natives of the Pamotu, or Tuamotu, island group east and southeast of Tahiti. This was discovered by a group of natural scientists sent out to study island culture groups by the Bishop Museum of Honolulu. Mr. K. P. Emory, an ethnologist attached to the expedition, now is visiting in New Zealand.

When one realizes that it is not possible to see an island until within five miles of it, and considerably less than that if there are no coconut palms rising above it.

Huge Flying Ship Is Declared Marvel

New York Herald-Tribune.—At last, after so many months of anticipation and so many advance notices, New York has seen the impressive majesty of the famous "flying ship." Riding easily on the tremendous thrust of her twelve motors, and with several ordinary planes buzzing like wasps beside her great hull and huge spread of wing, the DO-X passed up the North River looking, indeed, like a liner of the air. She makes an instant appeal to the imagination. The fact that it is possible to lift a great structure of this sort into the air—a true ship, with her large crew and sixty passengers, with her fuel and stores, her three decks, her pilot house and engine and radio rooms and all her elaborate living quarters—is still just a little difficult to credit. But we have now seen it done.

mercially profitable basis, and probably will not be able to do so until improvements in fuel and power plants radically alter the equation. The dirigible, on the other hand, has already achieved the necessary radius. The Akron has a calculated range of 10,000 miles at fifty knots and nearly 5,000 miles at seventy-two knots. One reason can be seen in the relative importance of the power plant. The DO-X, with a maximum useful lift of about twenty-five tons, carries 7,500 horsepower; the Akron, with an useful lift three times as great, has an installation of only 4,480 horsepower.

In spite of the many misfortunes which have followed the DO-X in her long course from Europe, the achievement she represents is a very fine one. When in 1924 Dr. Dornier undertook his bold exploration in the new field of size it was confidently supposed that the airplane was reaching a structural limit. The larger this plane, it was assumed, the greater would be the proportion of dead weight which would have to go into the structure itself. The DO-X disproved the thesis, and Dr. Dornier now sees no limits to the possible size which flying vessels may reach. The DO-X can take off with a total weight, plane and load together, of more than fifty tons, but her designer thinks that within a decade we may see flying boats of 100 tons displacement.

"The Glen of Weeping"

One of the most famous of Scottish beauty-spots—Glencoe—was put up for sale recently. But it isn't its rugged and impressive scenery which has made Glencoe famous, but the fact that it was the scene of one of the great tragedies of Scottish history. This was the massacre of Glencoe, in 1692. The order for the massacre, which was carried out by a party of soldiers, has been reprinted in the particulars of sale, and tells Captain Campbell of Glenlyon to "put all the sword under seventy." It goes on: "See that this is put into execution without food or favour, else you may expect to be dealt with as one not true to King nor Government, nor a man fit to carry commissions in the King's service. Expecting you will not fail in the fulfilling hereof, as you love your self I subscribe these with my hand."

Duty And Its Fruits

Kindly actions begun from a sense of duty blossom into affection and afford some of the sweetest pleasures earth can bestow. Active industry at first painful and arduous unfolds its powers and comes to be the source of keenest satisfaction. Purity of thought, word and deed, sought at first from a knowledge of its righteousness, comes at last to be the natural air which the spirit loves to breathe. Thus duty of every kind, containing within it the germs of its light and beauty, will, if cherished, develop the sweetest flowers and richest fruits, and the good and beautiful thus clasp hands and claim kinship for ever.

Paris Expected To Eat More Than Million Canadian Apples

Paris—A consignment of more than a million Canadian apples soon will be on sale in automatic vending-machines on Paris boulevards, as the first step in a big campaign to make France eat Canadian fruit.

This enterprise is the result of the initiative of the Canadian Trade Commissioner's office, which also has just induced the French Ministry of Agriculture to grant a concession to Canadian apple exporters, allowing them to store their apples at Havre without paying the customs duty until the apples are sold.

MUTT AND JEFF—Two Weeks Is Two Weeks On Land Or Sea.



15 Year Old Champion Horseshoe Pitcher



Johnny Colao, fifteen years old, held midwest horseshoe champion for two years. He has a record of tossing 35 consecutive rings and has scored 85 out of a hundred in a title meet.

Pigeon Sets Record in Harwich-Berlin Flight

Berlin.—From Harwich to Berlin in eight hours is quite good time for an airplane, but for a carrier pigeon it is a record. This was accomplished recently, writes a correspondent of the Christian Science Monitor, by one of over 200 similar winged messengers and it arrived at its home in Charlottenburg without turning a feather. The Central German Travel Company organizes a pigeon competition every year, this year's flight being particularly successful. The birds—250 in number—were set loose in Harwich at six o'clock in the morning, and all of them, after a brief survey of the country, set off for home within a few minutes. The first to arrive, the Charlottenburg pigeon, did the distance in eight and a quarter hours, equivalent to a flying time of more than 100 kilometers an hour. Within 30 minutes quite a number followed the champion, their arrival being announced in their several homes by the ringing of a bell attached to the door of the cot. Remarkable astuteness is manifested by these little feathered flyers.

Another Problem

A farmer, visiting his son's college and wandering into a chemistry class, saw some students busy with retorts and test tubes.

Noble Thought

Each life memorable for goodness and nobility has for its motive power some noble thought. Here is that cathedral spirit, John Milton. In his loneliness and blindness his mind was his kingdom. He loved to think of things true and pure and of good report. Often at midnight upon the poet's ear there fell the sound of celestial music, which he afterwards transposed into his "Paradise Regained." Dying, it was given him to say proudly: "I am not one of those who have disgraced beauty of sentiment by deformity of conduct, nor the maxims of the freeman by the actions of the slave, but by the grace of God I have kept my soul unsullied."

World's Finest Wire Used In tiny Lamp Filaments

Fine wire 410-1,000th of an inch in diameter—one-fifth the thickness of a human hair—provides the filament for a new type of electric lamp developed by engineers of the Westinghouse Lamp Company.

Science Plans to Repair Vital Organs by Synthetic Substitutes

Buffalo, N.Y.—Another step toward the time when science hopes to repair man's vital organs with synthetic substitutes for damaged functions will be taken at the meeting of the American Chemical Society.

Sunday School Lesson

September 20. Lesson XII.—The Council in Jerusalem—Acts 15: 22-29; Galatians 2: 1, 2, 9, 10. Golden Text—For brethren, only use not liberty on an occasion to the flesh, but by love serve one another.—Galatians 5: 13.

ANALYSIS I. THE QUESTION RAISED, Acts 15: 1-3; Gal. 2: 1. II. THE JERUSALEM CONFERENCE, Acts 15: 4-21; Gal. 2: 2-10. III. A PROPOSAL ACCEPTED, Acts 15: 22-35.

INTRODUCTION.—We come now to a great crisis in the history of the whole church. Paul and Barnabas, back from Asia Minor, were convinced that a great field was open in the Gentile world for the spread of the gospel. The Jews of their work, however, was causing some uneasiness in Jerusalem. Ever since the death of Stephen and the removal of most of the more broadminded Hellenistic Christians, the attitude of the Jerusalem church had been growing more Jewish. It was granted that Gentiles could be saved. The question was, how? "By becoming Jews," said the Judaizers. "By faith alone," said Paul. Was Christianity to be a mere sect of Judaism, or was it to become a gospel for all men? The question arose in Antioch, shortly after the apostles returned from their tour.

Visitors from Jerusalem who gave the impression, apparently, that they had been sent to deliver a message, said, "Except ye be circumcised after the manner of Moses ye cannot be saved." Their announcement came like a bombshell into the church at Antioch. Most of the brethren were uncircumcised, and Jew and Gentile were associating as equals. Paul and Barnabas refused to recognize the claims of the law upon Gentiles. Bitter controversy developed. The question once raised, must be settled.

The church suggested an appeal to the Jerusalem leaders, v. 2. Paul, while recognizing their authority to be no greater than his own, was decidedly encouraged to go, Gal. 2: 2. Besides Barnabas, he took with him Titus, one of his most faithful disciples, who was a Gentile.

The welcome at Jerusalem left nothing to be desired. At the first public meeting of the Conference, the apostles told how God had blessed their labors. He had accepted the Gentiles, had refused them? The legalists, who had also arrived from Antioch, rose up and maintained doggedly, "They must keep the law of Moses." Their doctrine had blinded them to the evident facts. "Our way, or not their all" was their attitude. The clash had come. The leaders required time for consideration. The meeting was adjourned.

Paul saw the legalists none too honorable in their methods (Gal. 2: 4), might, by an appeal to popular prejudice, discredit the apostles. He was too sharp-witted to be caught in that manner. He privately interviewed the key-man, Gal. 2: 2. It was most important that James, and Peter, and John should know exactly what had been taking place. Paul's brains were dedicated to God's service.

What New York Is Wearing

BY ANNEBELLE WORTHINGTON

Illustrated Dressmaking Lesson Furnished with Every Pattern



A midnight blue silk crepe is an excellent choice for all around daytime occasions particularly with white silk crepe collar as model illustrated. This attractive scarf collar is passed through a strap of material at end of open Vionnet neckline. The wide loops ends that reach to the normal waistline, tend to break the width through the bodice.

The pointed treatment at the front and at the back of the bodice is a clever idea to add length to the figure. It also emphasizes the flat hipline. The attached two-piece circular skirt is shaped through the hips with a widening toward hem that shows graceful flared folds.

Style No. 358 is designed in sizes 16, 18, 20 years, 35, 38, 40 and 42 inches bust. In the medium size, it takes 3 3/4 yards of 39-inch material with 1/2 yard of 35-inch contrasting for collar.

Wool crepe, printed crepe silk and light weight tweed are suitable for this slim model that you'll find so entirely wearable.

HOW TO ORDER PATTERNS

Write your name and address plainly, giving number and size of such patterns as you want. Enclose 20c in stamps or coin (coin preferred); wrap it carefully for each number and address your order to Wilson Pattern Service, 73 West Adelaide St., Toronto.

Judas and Silas, prominent members of the Jerusalem church. In Antioch the proposals were gladly accepted, and once more the church had peace.

Grape Jelly Makes Fine Winter Food

Abundant Crop Offers Variety of Nourishing, Inexpensive Delicacies

Seldom have grapes been so luscious and large as this year. And it is many years since they have been so cheap or in such abundance as this season. The early baskets appearing on the market just hint that the thrifty housewife should begin thinking of her grape preserves.

In addition to its excellent flavor, grape jelly is an excellent food for growing boys and girls in winter weather. Grape jam or jelly, with its high sugar content, contains carbohydrates, giving heat and energy necessary for winter days. Grapes, too, contain iron, another substance needed to build strong, active bodies. Grape jelly or jam is an old favorite with men folk. At breakfast, they like their richness it adds when served with roast pork or in fine pudding sauces. A time-honored Canadian dish was venison with grape jelly and the housewife who could jam or jelly, with its high sugar content, contains carbohydrates, giving heat and energy necessary for winter days.

Grape Jelly Stem and crush thoroughly about 3 lbs. of ripe grapes. Add one half cup of water, stir until boiling and simmer 10 minutes in a closely covered saucepan. Place cooked fruit in cloth or jelly bag and squeeze out juice. If a sparkling jelly is desired, drip juice through cotton flannel bag. Measure 8 level cups of sugar and 4 cups of cooked fruit juice into large saucepan, stir and bring to a boil. At once add 1 bottle liquid pectin, stirring constantly, and bring again to a full rolling boil for 1/2 minute. Remove from fire, let stand 1 minute, skim, pour quickly and cover hot jelly at once with hot paraffin wax.

Spiced Grape Jelly Particularly good for meats is spiced grape jelly, made by following the above recipe and adding 1/2 cup vinegar, 1 teaspoonful of cloves and 2 teaspoonfuls of cinnamon to the crushed fruit. Otherwise, follow exactly the above recipe.

New Piano Lacks Sounding Board

Berlin.—A Nernst-Siemens-Bechstein piano, a radical innovation but thoroughly tried instrument for universal use, not an experimental curiosity, has been formally placed on the market. The inventor, Walter Nernst, a celebrated physicist, calls it both a musical instrument and a scientific instrument of precision, because its tone production is completely controlled.

Outwardly like a baby grand, the new piano, the first fundamental structural departure since the piano came into existence, lacks a sounding board, its place being taken by an electrical amplifying device. Its strings are set to vibrating as any other piano's, but its hammers, invented by Nernst, are much smaller. The strings are gathered radially in set of five and pass under magnets, whose induced electric current runs through the amplifier of a loud-speaker. Electrical control allows tones to be held indefinitely and makes them swell or die away gradually. Pointing out the defect of the bass of the ordinary piano, that sounds overtones almost exclusively, Nernst calls attention to the superiority of the new instrument, which brings out fundamental tones.

There is still greater improvement in the upper registers, which for many years baffled the efforts of piano manufacturers to make them mellow. Speaking of the upper registers of the ordinary piano, Nernst said: "My friend Einstein, who, you know, is very musical, says they sound like porcelain getting smashed."

Nernst disclaimed musical competence. "Though I trained my ear listening to good music in Raireuth, and elsewhere, unlike Einstein I am essentially unmusical," he said. "I approached the problem altogether from the standpoint of physics. If I have been musically influenced the affluus must have come from my residence in what formerly was the home of the great elmholtz, father of musical acoustics."

The new piano also can be used as spinet, harmonium, phonograph and radio receiver. The last two features permit of unusual combinations, such as switching in on an orchestral concert while playing the piano. Control mechanisms permit adjusting the volume of tone to any size room and acoustics and varying the quality of tones according to one's desire. The price of the new instrument is \$650.

ADVERSITY

Adversity is the only balance to wealth; friends; prosperity is no just scale.—Susa.

TREASURES Hath he not always treasures, always friends, The good, great man? Three treasures—love and light, And calm thoughts, regular as infants' breath; And three firm friends, more sure than any than, day and night, Himself, his Maker, and the angel Death. —Coleridge.