(1) Sheep at Vermilion, Alberta.

(2) Group of Yearlings in Feeding Experiment.

An interesting experiment is being by a careful selection of the breed- the owner of the largest flock of worked out in Southern Alberta. An ing ewes from this cross. Every pure-bred Romney-Marsh sheep on effort is being made to evolve an en- two years will see a step forward the American continent, his flock tirely new breed of sheep. The man toward the new type, and as it will consisting of more than four hundred who is responsible for this experi- take six crosses to fix it, the whole registered animals brought together ment is R. C. Harvey, of Lethbridge, process will take eleven years. Aberta, who for many years has Plans and charts have been drawn parts of the world. Besides these, been one of the foremost sheepmen up, and a set of registration books is he has a large number of Rambouillet. in the province. Mr. Harvey be- being opened in the animal hus- rams and thousands of cross-breds. lieves he can evolve an entirely new bandry branch of the Department of Last year the weel from his Romnerbreed of sheep, which will be particu- Agriculture at Ottawa to keep track Rambouillet crossbreds was sold on

he has been experimenting with the ty in registering the type.

Rambouillet rams and R. maney tweet. Mr. Harvey is well qualified for his paid for his fine stapled wool.

without regard to expense from all larly well sulted to Alberta condi- of the various families of the new the American market for the high tions, both from a mutton as well as breed, so that there may be no in- average price of 741/2 cents a pound a wood standpoint. For many years breeding, and ultimately no difficult on a consignment of 100,000 pounds.

PREPARING FOR TRANS-ATLANTIC FLYING



(1) Lieut. Harris (on right) explaining Crown kite to St John officers. (2) Starting large Crown kite—box kite resting on the left.

mander of the Atlantic upper ation of flight.

air investigation expedition which If the soundings experiments made ably well. It is a far different under the control of the Royal from the Montcalm are successful a thing, he stated, to fly a monster kite Air Ministry will chart every number of ships will be fitted forth-from a moving, furching ship then air current and make the air with with similar zear to that which it is from the steady ground. It is route across the Atlantic as sure and she is to carry. Soundings in great very difficult to get the kite away safe as the water pathway. Weather numbers will be taken, and the infor- from the ship, and for a long time news bureaus will also be inaugur- mation obtained will be distributed he had to puzzle out a method of

A representative of the press visit
also to be an immediate station on a of his knowledge, kites had ed the vessel and examined the spe-battleship cruising on a definite arca been from this only once ed the vessel and examined the spe- patticsulp cruising on a denume and been from rups only once cial apparatus with which she was between Newfoundland and the Az- tore, and that lone before the prefitted for the experiments. At first ores. These are the points at which same war. During the voyage accoss sight it seems to be simple enough, it has already been decided by the product of the seems to be simple enough, it has already been decided by the product of the seems to be simple enough, it has already been decided by the seems to be simple enough, it has already been decided by the seems to be simple enough, it has already been decided by the seems to be simple enough, it has already been decided by the seems to be simple enough, it has already been decided by the seems to be simple enough, it has already been decided by the seems to be simple enough, it has already been decided by the seems to be simple enough, it has already been decided by the seems to be simple enough, it has already been decided by the seems to be simple enough, it has already been decided by the seems to be simple enough. netcorgraph is itself a complicated there will be repair shops, spare. The sir service mentioned above. meteorgraph is usen a complicated there will be repair shops, spairs. The air service mentioned above, and infricate instrument, and kite- parts, stores, and petrol for refuel- he added, will be used and charted flying for scientific purposes it not ling the aeroplanes. The type of for every sea and will cover a sertiying for scientific purposes it not mag the aeropianes. The type of for every sea and will cover a serquite the schoolboy fun that many machine to be used will be a "flying vice of airships and the larger beapeople imagine it to be. The kites boat" and thus when the proposed vivi-than-air craft, as well as planesused are of three types, and the large method of gathering news about weat His records made during the voyage used are of three types, and the Part- method of gathering news about wed- H s records made during the voyage -at of these, which measures roughly, ther conditions is in full working or across are in rough shape and of

on the foc'sie deck for use when the atmospheric readings should be made engaged in scientific pursuits for the wind is aft. and the other for use using balloons of the type employed past 18 years, making his first expewhen the wind is ahead or aheam, is by the Meteorological office in carry-riments when but a mere lad. He to be sent off on the gun platform in ing out daily readings over land, but had been engaged in scientific kitethe stern of the ship. By these means there are many objections to flying flying several years before the war the mooring cables which are of fine balloons from ships. The kite which broke out, and his services were steel wire very similar to marine is made of fine linen stretched be- keenly appreciated by the air serseemding cable will be kept clear of tween bamboos is strong and service vice.

when the sommongs are canen two curried out. It may be remarked usies and punkirk in anti-submarine kitses are attached to the cable-end that the officer stationed at Lisbon work. It has been frequently stated

Detroit flying flivver, the success of soundings can be taken up to a favourable, and it is hoped to make the trip can be credited to the Brit- height of four or five miles. The the journey without touching the ish Air Ministry in general, the me-meteorgraph, a comparatively small Azores. Early news of conditions teorological in particular and Lieut, instrument combining three devices ahead will have the greatest influ-Guy Harris, F.R.M.S., R.A.F., specifi- in one, records at the same time, by ence on the success of the venture. Lieut. Harris arrived in St. John volving drum, the humidity of the many difficulties experienced in the pen points marking a chart on a re- Lieut. Harris said that there were recently, the only passenger on air, atmospheric pressure, and the kite flying at sea, but thanks to the board the Canadian Pacific Seam- speed of the wind, all factors of the valuable assistance of Captain Hamship Montcalm. He is the com- utmost importance in the consider- ilton and other members of the ship's

news bureaus will also be mangur- mation obtained will be distributed he had to puzzle out a method of ated to furnish up-to-the-second in- by wireless from ship to ship, and to a wing the recording instruments up ated to turnish up-to-the-second in-thy wireless from suip to ship, and to given the recording instruments up formation regarding all aerial could-stations in Lendon. Lisbon, the A2- to the kife after the argent had been

8 ft. by 6 ft., exerts a pull in a der, and when in a month's time of course nothing can be published re-SIL by 6 It., exerts a putt on a der, and when in a month's time of course nothing can be published le-strong wind sufficient to strain the ficial cross Atlantic flight by acro-carding the trip until the official re-Besides the box kite there is a pilots will be able to have their mas ministry at London. But, he added. Besides the box site there is a phots will be able to have their had burnistry at London. But, he added, grown kite, 16 feet long and 12 feet chines overhauled to "refill," and to "I am very well pleased with the rehigh, with a main plane and two learn the latest tidings of weather suits obtained and I can state with-

rigging and derricks whatever may able, and can be folded away for For three years he has been athe the angle from the ship at which storage in a very small place, it is tached to the Royal Naval Air Ser-

In future days when one takes a rents and varieties of atmospheric that the prospects for cross Atlancasual flight across the Atlantic, in a pressure vary in layers upwards, and tie flights by acroplane are entirely

high, with a main plane and two learn the latest duings of wedland solds obtained and I can state with-keels; the keel hite is smaller and is ahead at five halts on the journey, out enalification that the expedition, used mostly as a pilot kite to assist Thus the Air Ministry is reducing so far, has been most successful."

There are two winches, one placed It was at first proposed that these Meteorological Society, and has been

also cheap to make and quickly vice operating around the British when the soundings are taken two turned out. It may be remarked Isles and Dunkirk in anti-submarine a pilot of light make and 400 feet is to be allowed full use of the obthind it one of the bigger box kites servatory there for gathering weat tacked by the German U-boats while serrying meteorgraph. The air cur- ther news. The official view is it was convoyed by a flyer.

A REIGN OF TERROR.

anditions in Russia Develops New Disease.

Bad as conditions are in the German capital, Berlin is a paradise compared with Petrograd say Russians who escaped from their country bringing terrible tales of anarchy. They are astonished that the Allies asked the representatives of the various Russian Governments to meet. They say that the better element of the Russians will not attend the conforence claiming that the majority of the representatives would be Bolsheviki. Jews, they say, form a small percentage of the men who are now terrorizing Russia. A freight train carrying 450 Rus-

sian officers recently escaped from Kiev where from 300 to 500 calcers were executed. The escaped officers were clad in white trousers and cotton shirts with no hats, coats or shoes excepting a few who had paid 500 rubies (\$250) each for tattered overcoats. The officers were in bad shape. They suffered extremely from lack of food and cold and many must go to hospitals. In the Ukraine a Bolshevik army is stealing, plundering and burning villages. Lemberg is surrounded by Ukraine soldiers. Petrograd is in a worse shape and is called a graveyard. The Soviet Council "nationalized" all the cooking and eating kitchens and all fuel has been sealed up by the Bolshevik agents. No one is allowed to prepare his own meal. All must wait in lines for hours at the common dining rooms to obtain a thin soup costing four rubles (\$2) a portion. It is impossible to make a tea as there is no hot water, tea or sugar.

An unusual disease is developing which causes the marrow of the bones to liquify. People are dropping dead in the street cars for lack of food. Horses which die are left in the streets. All who could do so have left and the city seems desert-Many who are without money are forced to endure terrible privations. They remain in their houses where it is four degrees below freezing, all fuel having been seized. A red army numbering 600,000 soldiers is advancing through Poland towards the west and is now about 40 kilometers (24 miles) from the German frontier. A ray of hope is beginning to appear since a few reports say that the farmers are preparing for an uprising against the local Soviets. They are planning to defend themselves against the Chinese troops who under the pay of the Bolsheviki pillage and burn villages which refuse to pay tribute or furnish food.

Turned Tables on Turk.

Among the prisoners captured at Amara was the "mutessarif," the sub-governor. The British intelligence department was anxious to find development went together, seemingout what were the prospects of an ex- ly. Above the eyes were heavy bony change of these prisoners for the prominences, like those observed in nine British women who had been the skull of the gorilla, which to-day detained in Bagdad after their hus- is recognized by science as our nearbands had been deported, and I was est relative on the earth. asked to sound this particular "mu- Which does not, of course tessarif" on the subject, writes John Van Ess in Asia. So the smoking but merely that those ferocious mansaloon of the prison ship was placed like apes are distant cousins of ours. at my disposal; I was given fancy lency was ushered in. In the past to their disinterred bones, we can yours I had spent many weary hours on the edge of a chair in the prescoat buttoned, knees and feet to- behind, with accompanying bones of gether, and head respectfully inclin- the animals they ate, we are able to I honestly did not intend to take ad- pursued existence. vantage of the situation. When he entered I arose and held out my were for gnawing bones, and quite hand and asked him kindly to be seated, gave him a cigarette and doubtless used as the most available poured him some tea. But despite weapon in close combat. For those my assurance that I was a neutral were days when the term "friend" and meant only kindness he refused to be put at ease.

The perspiration rolled from his forehead, his knees quaked, in his abject terror he could scarcely talk, the Allied general mentioned. Finally I confess I obeyed an unworthy impulse. I said in my heart, "For twelve years I have sat with bowed head before your breed. I will call it square for thirty minutes of midable in the war now happily the process reversed." When the bey ended. finally backed away and out, all rancor against the Turks on the score had left my soul. But I think 1 cular bey had not been such a shrimp. In the old days "mutessarifs" were loud mouthed, carried a cudgel, frothed and stormed, but they gave you a chance to stand up to them and they commanded your respect at least, for their positiveness. This particular individual was a fair sample of the many who followed in the train of Mon Ever. He looked as if he might have poisoned a far worth-Constantinople chaue, for which he had been rewarded with his present office in which he rattled around like a dried nut.

An Enemy to Prussia.

Remarkable in many ways was Elizabeth Petrovna, Empress of Russia and daughter of Peter the Great. She died 157 years ago, after a reign of twenty years. While history knows ent in race and character; but they her chiefly for her immorality, she are sturdy, laborious and tenacious left behind her as monuments to her of their nationality. The Aztecs were better nature the University of Mos- in course of conquering them when cow and the Academy of Fine Arts in the Spaniards came. And the racial mother was the Empress Catherine, who had been the wife of a Swedish dragoon, and became the mistress of several men before Peter the Great are not Mexicans, and never have married her. Her daughter, Elizabeth Petrovna, when she ruled Russia, once became so mortified by one of the jests of Frederick the Great that she made war on the witty Prus- a month to get a competent nurse to sian King, and until her death Russia was one of his most dangerous enemies.

Misplaced Formula. The floor-walker smiled courteously as the package-laden woman was about to depart. "Come again," he

said, bowing politely. "Yes," replied the woman over her shoulder, "and you must come and

Latter Which Expres

On seeing a photograph of Gen Haig one is instantly struck by one feature of his face—the jaw, large and massive. It is a typical "fighting jaw.

Such a jaw means something. It signifies among other things will power and decision of character. Beyond question the jaw of any

numan individual is to some extent an index of character. It has a psychological significance. The man with a "weak chin" is not of the type that "gets there" and "does things." Look at Haig's chin, and Foch's and note how well developed is that feature.

The heavy jaw (often observed in prize fighters) has been held to connote brutality. It is a mistaken idea. In reality it is not the jaw but the chin that counts as an index of character. When a man is a big man, massively built, with heavy bones, his jaw is heavy; but it is his chin that dominates and expresses his character.

This distinction may be best illustrated by referring to the primitive human beings, rather apelike, whose skulls and other bones have been dug up in the various parts of Europesuch, for instance, as the so-called "Neanderthal man" and the "man of Spy," these designations referring to the places where their remains were found.

Nobody knows just how long ago these men lived, but it was certainly several hundred thousand years back. They were rather short of stature and heavily built, somewhat gorilla-like, and presumably covered with long hair. But their most remarkable feature was their huge "prognathous" jaws, provided with eeth much larger than ours.

Yet they had no chins worth mentioning. It was a feature left apparently for later development, and which would therefore seem to have a relation to an evolution distinctive-

ly psychic. The only primeval woman known to this date made her home in a hole in an almost vertical cliff that overlooked a brawling stream which flowed over a pebbly bottom in a valley of France, a few miles northeast of the modern city of Boreaux. She lived, it is reckoned, at least 300,-000 years ago. Her age when she died, was about forty-five years, and her huge jaws (as found) contained fourteen great teeth, much worn, presumably by gnawing bones.

Among the bones dug out of the little cave with her skeleton were those of the mammoth and the reindeer.

Like all the people of her period, she had little forehead and no chin. Absence of chin and lack of mental

that we are descended from gorillas, tell pretty well what they looked

Their great jaws and huge teeth possibly for biting—the teeth being had not been invented. Each male head of a family was always at war with his near neighbors.

But what has all this to do with Simply to express the idea that it is not really the jaw but the chin that offers an index to the character that has made them so efficient and for-

come down from the north some cen-solution of the dispute.—L. Stoddart higher and more peaceful civilizations of southern Mexico about as did the Goths in Rome, or the Manchu Tartars in China. Their civilizaier Turk than himself, or done some of contemporary Europe in organization, and much beyond that in education; though they destroyed and never learned the best of what existed before them. But they were, and still are, a warlike and "Tartar" race. Oaxaca, the California of Mexico, was the seat of a great civilization, of the Zapotecs and Miztecs, conquered in battle by the Aztecs but a short Empress Elizabeth's antagonism of Mayas for all Mexicans is extreme; they do not want them; Mexicans call treasonable the "separatism" of Yucatan; but Yucatecans been.—Wm. Gates in World's Work.

A Great Risk.

take care of the baby, and they are therefore considering having the baby's mother do it," said one busi- exclaimed the orator. "Don't say

Satisfied. Counsel-I'm sorry I couldn't de more for you.

t, guvnor; ain't five years one

A picture by a Chinese artist, dated perhaps 1000 A.D., shows that indammable materials were frequently made up in tubes of bamboo, which were cast at the foe. Tubes of this sort were at times thrown by engines of war having bows or springboards after the fashion of the artillery employed by Roman armies in ancient times.

The greatest development of liquid fire, writes H. M. Manchester in the American Machinist, took place in the Middle Ages. The Emperor Constantine VII, in his directions for the administration of the Empire, written for his son, has the following account of its introduction: "Know that during the reign of Constantine Pogonatus (668-685 A.D.) one hallinikos, who fled from Heliopolis to the Romans, (at Constantinople) made a wet fire to be discharged from siphons" (probably a form of syringe -Editor) "by means of which the Romans burned the fleet of the Saracens at Kuzikos and gained the victory.

This battle took place during the first siege of Constantinople by the Moslems. The records state that the Saracens came down upon the city in 1,800 ships, most of which must have been small. Constantine removed the chain guarding the narrows, and when the ships were crowded into a small space, he sent boats carrying Greek fire against them.

The tremendous psychological offect of such fire, as well as some of the methods of using it, is brought out in de Joinville's memoirs of St. Louis IX in his crusade, 1249 A.D. Near Damietta in Egypt the Turks brought up against the camp an engine called la perriere, "from which the Turks flung such great quantities of Greek fire that it was the most horrible sight ever witnessed. Sir Walter cried out, Whenever they throw any of this Greek fire, cast yourself on your knees and cry to our Lord for mercy. This Greek fire in appearance was like a long spear; the noise which it made was like thunder, and it seemed a great dragon, so great a light with its flames that we saw our camp as clearly as in broad day. Thrice this night did they throw the fire from la perriere and four times from crossbows. Each time that our good king, Saint Louis, heard them discharge the fire, he cast himself on the ground and pray-Twice the Saracens with this fire burned the castles protecting the camp.

An Ancient Quarrel.

The dispute between Chile and Peru had its origin in the Chilean-Peruvian War of 1879, and has embittered the two countries' relations ever since.

The issue is the rightful ownership of provinces of Tacna and Arica, now in Chilean possession. By the Treaty of Ancon, signed Oct. 20, 1883, he defeated party in the war, welded certain territories to Chile the first place, Peru ceded uncondiat my disposal; I was given fancy - we know tartist remarkably fixed vince of Tarapaca. In the second cigarettes and a tea-service with about those primeval folk, consider-place Peru granted to Chile full possession of the adjacent provinces of Tacna and Arica for a period of ten on the edge of a chair in the pressure. We have located some of the plebiscite or popular vote of the ence of Turkish officials with hands caves they dwelt in, and, helped by habitants was to be held to determine whether the provinces should become ed forward as etiquette demanded. reconstruct with reasonable definitepermanently Chilean or should go ness the conditions under which they the provinces by the plebiscite should pay the loser 10,000,000 silver dollars. This sounds simple enough, yet the fact is that the plebiscite has never been held. The trouble has been that the two countries have been unable to agree upon the exact manner in which the vote should be taken, the terms and time for payment of the contingent indemnity. and other collateral matters. Meanwhile Chile has kept possession of the provinces with Peru continually endeavoring to get the plebiscite, since the provinces are of great value, containing some of the nitrate deposits of the Pacific coast of South America. So the negotiations have dragged on for a whole generation, at times rishad left my soul. But I think I There were roughly three settled forgotten. This situation contains the would not have done it if this partinational Excilizations prior to the possibility of serious consequences. Tarascan on the middle west coast, of the South American nations have Michoacan). The Aztecs were a na- made diplomatic overtures to Chile tion of bloody sacrifices, who had and Peru looking toward a peaceful in World's Work.

Were Cautious.

There has been some grumbling, both among newspapers and business men, about the slow transmission of cablegrams in war time. We judge that there was similar complaint in the Spanish-American war. At least there was cause for it if an account given in "The Story of the Sun" is true. W. J. Chamberlin, one of the New York Sun's correspondents, reached Jamaica with an exclusive story. This is what happened to him: The women clerks in the teletime before the Spaniards came. The graph office took his despatch and counted the words three times before they would start sending it. .. They they would start senuing told Chamberlin the cost, about a told Chamberlin the cost, about a hundred dollars, for which promptly paid in cash. Three or four days later he went back to Port Antonio with another important despatch. The cable clerk told him that on his previous visit their count had been one word short. "That's all right," said Chamberlin, and he threw down a shilling to pay for the one word. "Thank you," said the lady, "now we can send the mes-

Ran a Risk.

ness man to another. "But ought vants are terribly the friend. "Serthey to run that risk for fifty dollars vants are terribly dictatorial these days. People may think you are trying to be a boss."

Convicted Client—Bon't mention aging to look at a dollar and realise

Detro Guy I cally. recent board ship mard air under

air

route safe a news ated format tions cial ap titted sight for it box kit meteor and in flying quite people used a est of th 8 ft. h strong holding

Besid

Crown

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mation obt. wireless