

Scientific Facts

NEWEST NOTES OF SCIENCE. Span monkey hair holds the settings generally in jewelry invented by a German. The stem of a new tobacco pipe can be taken apart along its length for cleaning. An oil extracted from locusts is being used to lubricate washes in South Africa. To facilitate handling spark plugs a wrench with a swivel handle has been invented. Most of Sweden's sawmills are operated electrically with power obtained from waterfalls. A new tea caddy measures and ejects a teaspoonful of its contents each time it is inverted. American inventors have opened an artificial silk factory in the Federal District of Mexico. A process has been developed for making coarse papers from fibrous peat instead of wood pulp. Radio enthusiasts in Burma have formed a club at Rangoon and plan to do their own broadcasting. With a new mechanical device accurate study of the color of hay to determine its value is possible. An attachment for an alarm clock to shut off the gas in a range at a set time is a French invention. The per capita use of pins in the United States is now about 200 a year and the number is increasing. Of English invention is a single cylinder motor pump that is claimed to do as much work as four horses. When one end of a new tooth brush becomes worn it can be reversed on its handle and the other end used. With a new implement round tin cans such as those used for shoe polishes are easily opened without denting. Commercial aviation has been provided for Sweden by two companies that are developing a number of air routes. Bolivia's first two air mail services have been put in operation. A thumb screw makes a vice of new pliers in which the jaws are always parallel. More than one half of the ships now being built in German yards will be motor driven. To aid home canners tongs have been invented that surround and extend under a fruit jar. Of English invention is an electrically driven hydraulic crane of considerable power that can be operated by one man. Film for 100 pictures can be loaded in a new camera small enough to be carried in a pocket. An Englishman has designed an oil engine to saw logs into lengths or operate portable pumps. Juice can be extracted from fruits eggs beaten and knives sharpened with a new kitchen implement. Slam's first important production of wool of any kind has been begun with the milking of ligite. Novel building blocks for children open on hinges like books, revealing pictures inside of them. In Hungary as now constituted 4,200,000 inhabitants are engaged in agriculture. To convert a hammer into a hatchet a blade that can be inserted between the claws has been invented. Some of Syria's rivers are to be converted into canals and the water used in summers for irrigation. A crank operated machine has been designed for coring grape fruit and cutting it from the outer rind. Motion pictures of bees that show the complete history of their lives have been made in a European studio. A novel lawn mower is propelled by a person occupying a seat on top of it and operating pedals with his feet. A hat with interchangeable crowns and brim covers has been invented by an Englishman for wear in all seasons. To save weight and eliminate a fire hazard an eastern railroad will equip all its dining cars with aluminum chairs. The third radio broadcasting station in Japan has begun operating at Nagoya, the others being at Tokyo and Osaka. An air pillow that can be deflated for carrying has been shaped to fit a person's neck, insuring comfort to travelers. Although less than eight per cent of Holland is forested it has 50 per cent more forest area than it had a century ago. A three wheel automobile that can enter the water and be propelled like a boat has been invented by a New York state man. A non magnetic iron alloy for electrical machinery that can be moulded as readily as cast iron has been developed in England. To adjust the size of hats to the wearers' heads a silk covered hat that is held in place by small metal prongs has been invented. By utilizing all of its available water power Antrim could almost cut in half its annual coal consumption of 15,000,000 tons. For polishing stoves a rotary brush that can be operated by a household electric motor through a flexible shaft has been invented.

Plants that compare favorably with those from the best ocean oysters have been found in mussels in a river in the interior of France. Supporting an automobile cushion to make it serve as a table is the purpose of a frame that has been invented that folds flat when idle. With an English inventor's apparatus messages written and telegraphed in code by one type writer are received and translated by another. A spring holds the forward sight of a plane so that it cannot fall out of a pilot's field of vision but allows it to be withdrawn quickly. Holland has opened a radio telegraph station which enables it to communicate directly with its colonies in the East Indies 12,000 miles away. A patent has been issued for an arch for buildings having a frame of short ribs joined into a net like form instead of long beams and trusses. An English scientist claims to use about 80 per cent of the generated power by using a column of water instead of a wire to transmit electricity. An automobile windshield mirror and protector against glare have been combined, the latter opening from the former like a fan as a button is pressed. For slaughtering animals painlessly a French woman has invented a pistol that fires a spike into their heads, a spring withdrawing it into the barrel. Small cone shaped rubber cushions have been invented for automobile door frames to prevent rattling or glass being broken when a door is slammed shut. Germans have developed apparatus with which the material of sunken vessels that cannot be raised can be salvaged by cutting them to pieces under water. Permanent accuracy is claimed for a new scale for weighing letters and light articles of mail matter as it is operated by gravity and no springs are used. Water pipes that can stand much pressure that a Frenchman has invented are made of paper, the outer layers being impregnated with tar and coated with bitumen. Instead of cranking a motion picture camera by hand the work can be done with an electric motor operated control invented by a camera man in California. An Englishman claims to have perfected an automatic automobile gear that dispenses with a clutch and gear box and adjusts itself to grades and loads. Three compartments make up a new suit case, the end ones being half the width of the center one and unfolding from it so that the entire case lies flat when opened. According to an English meteorologist who has compiled world-wide data the earth experiences about 4,000 thunder storms daily, averaging 100 lightning flashes a second. With a Chicago man's invention instrumental music or the human voice is carried by electricity to a machine or making master phonograph records and regulated on route. Japanese schools have made the study of the English language compulsory, students being barred from higher institutions unless they have completed a four years course in it. High pressure hot air apparatus with which the University of Wisconsin is experimenting cures hay ready for haling in 8 hours after it has been cut and raked together. To protect the face of an automobile driver an English inventor has designed a shield of clear celluloid, pivoted to a cap so that it can be lifted out of the way when life. A special form of wire mask has been designed for persons who fill bottles with carbonated beverages to protect their faces from flying fragments of glass when bottles break. March of Berlin's electricity is produced by burning ligite at its nucleus and transmitted 150 kilometers, saving the daily movement of from 5000 to 8000 tons of bituminous coal. For household use a milk bottle holder has been patented that includes a receptacle for coins or tickets to inform a dealer the amount and kind of milk or cream to be delivered. To shorten the time between Central America and the United States a passenger and mail airplane service from Barranquilla, Colombia, via Havana to Key West has been planned. Its knives manipulated by turning a hand crank as it is pushed over gravel, a mowing machine on the principle of a grain harvester has been invented for cutting high grass on lawns. An English inventor has combined a motion picture camera with a gyroscope to enable it to be carried by an operator and used without imparting wobble motions to the pictures it makes. Scientists who have made several thousand tests throughout the world have found blue the most favorable color with red second preference for the latter decreasing as education increases. In Eastern Germany a marine railway has been built that lifts steamboats of considerable size with their passengers and cargo from one body of water and carries them overland to another. Requiring less floor space and doing more work than any such device now in use, a machine invented by a New Jersey man measures, cuts, assembles and counts 200 dozen handkerchiefs an hour.

FOR THE WOMAN READER BY FLORENCE RIDDICK BOYS COPYRIGHTED

IT'S MUSIC. Some time ago I called at a home in which two young children had been adopted. It was bedtime and things were evidently not going right upstairs, for jangling voices were raising a ruck. I went in and found two little children crying—bawling rather—at once. "It makes quite a difference when children are in the home," I ventured, slightly embarrassed for the foster parents. "Indeed it does," spoke up the gentleman enthusiastically. "It makes life worth living."

DARNING BY MACHINE. Have you found the habit of using your sewing machine to the utmost? One may gather, hem, patch and darn with it much more freely than is common. The experienced seamstress will save herself much bustling by the use of pins and a skillful handling of the goods, feeding it into the stitchee according to her will. The fingers become expert instruments to regulate the peculiar nature of various sewing needs. To gather by sewing machine—if one does not wish to use the special tool for it—one may make the stitches long and the top side loose. The under thread may then be drawn to shirr the goods. This is useful in making ruffles. Darning by machine is quicker than by hand and makes a firmer mend. Table cloths, napkins, towels, sheets and pillow cases may be darned on the sewing machine. Fine thread makes a neater darning. Use an embroidery hoop to hold the material flat. Remove the presser foot and slip the material in place, with the hoop up. If the presser foot may then be replaced; or, if it is in the way and must be left off, the goods must move the goods along to keep them with the needle as it will not move automatically without the presser foot. First stitch around the weak spot, then criss-cross back and forth across it. The tension should not be too tight or too loose.

WOMEN MOTORISTS. The opinion has been current that women are less competent drivers of autos than men, are more careless and have less respect for law, that they are nervous and erratic. If a woman is found as a party to an accident the common assumption is "woman driver, of course?" Statistics contradict these conclusions as to the inferiority of the sex called "weaker sex" as motorists. Among the thousand persons whose licenses were last year revoked in New York State, only twelve were women. Of these thousand a third under the influence of liquor. Only one of these was a woman. But—someone will say—"fewer women drive than men." This is true; but one fourth as many women as men are driving and the incidence of poor driving is not in proportion. Dr. Hoffman, statistician for the Prudential Insurance Company, after surveying the hazards of motor traffic, has reached the conclusion that women are more careful drivers than men. Don't be afraid to ask "him" for the use of the family car. According to statistics he is not taking a risk. You are no more likely to bring it home with a bent fender than he is.

WHAT IS "CHIC"? "Chic" is a thing nobody can define and few attain. Its first essential simplicity. Possessive, if itness is its antipode; it consists rather of severity, combined with grace, economy and elegance—if you know what I mean. To become that enviable thing "chic," do not add anything to your costume, but take something off. But then what is the use of discussing it? It has to be born in you. One can approach, but he cannot attain it in spite of all our efforts to keep close to them. They will not give us their confidence unless we deserve them and work to gain them. It takes tender sympathy and appreciation and time to play and live with our children to keep close to them as they grow. Children do grow, too, with such a hop skip and a jump, that it takes lively springing on the part of the parent to keep the pace even when he actually tries. If the parent is indifferent about cultivating his child's acquaintance, the evil days will come speedily when he will know him not.

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and our too often failure to know what is wisest! But we cannot excuse ourselves if we do not do our utmost to know our children. There are many books on psychology which will help us understand the workings of the human mind. To visit the school and to talk with the teacher helps us to know how to compare our child with others. The physician can inspect him physically and keep us informed as to his health. Whatever the activities of the boy or girl, it is the parent's duty—and high privilege—to share those interests with him. He will welcome our cooperation if it is sincere and kindly and not spying or critical. Did you ever think that perhaps your child hungers for your sympathy and appreciation and cooperation? Unless you have entangled him, he wants you as much as you want him and to keep close will not be a difficult matter.

GINGER BREAD. Half cup butter, one cup sugar, one cup sour milk or cream, three eggs, three cups flour, one teaspoon ginger, one level spoon soda, one level spoon baking powder, one level spoon salt, one level spoon cinnamon, one level spoon nutmeg, one level spoon cloves, one level spoon allspice, one level spoon mace, one level spoon cardamom, one level spoon anise, one level spoon fennel, one level spoon caraway, one level spoon coriander, one level spoon dill, one level spoon fenugreek, one level spoon flaxseed, one level spoon fennel, one level spoon caraway, one level spoon coriander, one level spoon dill, one level spoon fenugreek, one level spoon flaxseed.

GRAPE CONSERVE. Do not discard the pulp left after the juice has been extracted for grape juice. Cook the broken grapes and add to the pulp. Pass the pulp through a coarse meshed strainer to remove the seeds. Weigh the pulp. To four pounds of pulp and four pounds of sugar, add one pound and four ounces of oranges (three large oranges), one box of raisins, one pound of blanched almonds cut in coarse pieces. Cut the oranges into halves and put through a food chopper. Wash the raisins and put through the chopper in a similar manner. Cook the pulp, sugar, oranges and raisins until the jelly stage is reached, remove from the fire and add the almonds. Put in sterile jars and seal.

IN BABY'S MOUTH. By Mrs. Neater Noel. The other day, I was sitting on the bench near a baby of eighteen months. His mother made the remark that "everything went in his mouth as it always does with babies."

CELEBRATION DINNER. The rapidly with which the Canadian ex-soldiers' reunion movement has developed from the informal dinner given by members of the Grand of Honor who attended the unveiling of the St. Julien War Memorial in 1923 has necessitated the formation of a committee with the High Commissioner as President, to deal with the mass of enquiries from Canadian ex-soldiers resident in the British Isles.

KNOW YOUR CHILDREN. Riddletons seems this latest slogan put forward by Child Welfare workers—and yet it may be necessary. As though anything could be more natural or more delightful than to know one's own children? This is a busy-busy age, and father or mother, rushing along with the days work, may not stop to note what Johnny or Jennie says or does, and how else can they ever judge of how they are growing and developing, mentally and spiritually?

Jeweller Defeats Bandit's Attempt. SAULT STE. MARIE, Oct. 15.—Prompt action and daring on the part of R. H. Fowle, of R. H. Fowle and Co., jewellers, defeated the attempt at robbery by a stranger who entered the store last evening and held up Mr. Fowle at the point of a gun.

CLIPPED. There was no love lost between the two women and neither of them could resist an opportunity of scoring over the other. One day they happened to meet by chance in a friend's dressing room. Miss Fowle was the first to open fire. "I had a handsome young man at my feet yesterday," she remarked. "Yes said Miss Chippier, pleasantly. "I noticed you had bought some new shoes."

FOR THE WOMAN READER. (Continued) Do not be afraid to ask "him" for the use of the family car. According to statistics he is not taking a risk. You are no more likely to bring it home with a bent fender than he is.

Weekly London Letter

TAKE ONE LONDON NOTE. THE OFFICE OF THE HIGH COMMISSIONER FOR CANADA IN LONDON WEEK BY WEEK 1ST OCTOBER, 1925. The High Commissioner for Canada has been advised of another outbreak of foot and mouth disease, this time near Weymouth, in the South of England. Only about a week ago the United Kingdom was declared free from all restrictions in respect to this disease, but no movement of cattle will now be allowed into or out of the district surrounding Weymouth until the disease is stamped out. September has been a record month in respect of shipments of Canadian Store Cattle to the United Kingdom. Some twenty consignments have been made comprising about 10,000 head of cattle. The High Commissioner's Office is informed by the trade commissioners in Great Britain that they have received the following enquiries for Canadian goods during the past week: A London firm of manufacturers and merchants who purchase Chemicals, Gums, Waxes and Tanning Materials, are prepared to consider Canadian goods for the past week. A London firm of manufacturers and who annually purchase 5,000 boxes, 15,000 cask heads and 60 standard staves, would be glad to hear from Canadian manufacturers who wish to quote for these supplies. A London firm engaged in business with South Africa wishes to secure the agency for South Africa of a Canadian manufacturer of wallboard who is not already represented in that country. A Leth firm desires to handle Canadian shipments of apples on consignment. A Liverpool firm asks to be placed in touch with Canadian producers of Asbestos Fibre. An Engineers' factor and mill machinery dealer desires to represent a Canadian manufacturer of Iron and Steel Tubes on a commission basis. A Glasgow firm desires to handle (on consignment basis) Canadian shipments of apples. (Further details of these can be obtained from the Commercial Intelligence Branch of the Department of Trade and Commerce, Ottawa, or from the Canadian Government Trade Commissioners, The Canadian Building, Trafalgar Square, London, S.W.) C.E.F. REUNION DINNER. The rapidly with which the Canadian ex-soldiers' reunion movement has developed from the informal dinner given by members of the Grand of Honor who attended the unveiling of the St. Julien War Memorial in 1923 has necessitated the formation of a committee with the High Commissioner as President, to deal with the mass of enquiries from Canadian ex-soldiers resident in the British Isles. Last year over two hundred ex-members of the C.E.F. dined together and it is expected that this figure will be more than doubled on the 10th November next. Particulars of the dinner to be held at the London Scottish Headquarters, Buckingham Gate, on that date will be supplied by the Hon. Secretary, D.S.C.R. Canadian Building, Trafalgar Square, S.W.1. Jeweller Defeats Bandit's Attempt. SAULT STE. MARIE, Oct. 15.—Prompt action and daring on the part of R. H. Fowle, of R. H. Fowle and Co., jewellers, defeated the attempt at robbery by a stranger who entered the store last evening and held up Mr. Fowle at the point of a gun. Mr. Fowle, who was alone in the store at the desk when he saw the stranger enter, Mr. Fowle rose to wait on him and just as he reached the counter, the intruder pointed a revolver at him at arm's length and started to say something. What it was the visitor was about to say Mr. Fowle did not wait to hear, but picked up a glass candlestick which was right beside his hand and hurled it at the hold up man, hitting him in the chest with it. The robber made no effort to shoot but ducked behind the counter and Mr. Fowle hurled another candlestick this second one hitting a showcase. The breaking of the glass caused such a noise that the robber evidently fearing it would attract attention ran out of the shop and escaped.

REPORTS OF WOMEN'S INSTITUTES OF P. E. ISLAND

FREDERICTON.—The September meeting of this Institute was held at the home of Miss Annie MacLennan with ten members and one visitor present. The meeting opened in the usual manner and roll call was answered with suggestions to improve the Institute. Various committees reported and new ones were appointed. A report of the recent Ice Cream Social showed it to be a financial success for the Institute. Branch Conveners were appointed. Instrumental music was supplied by several of the members. One new member was welcomed. The next meeting will be at the home of Miss Sadie Mosley when the roll call will be answered with a "Joke". ST. COLUMBA.—Eight members and thirteen visitors attended the September meeting of this Institute held at the home of Mrs. Paul McEachern. The School committee reported the stove in need of repairs. The Secretary was authorized to have lottery tickets printed for the sale of the quilt. Roll call was answered with "Stunts". An interesting programme which consisted of recitations, monologues by Miss Lannagaw was carried out. Branch Conveners for the standing committees were appointed. After the serving of a dainty lunch the remainder of the evening was spent socially. The next meeting will be at the home of Mrs. Thomas Mahon and roll call will be answered by the "Familiar scrape in which I never saw anyone". O'LEARY.—Institute met on September 8th at the home of Mrs. Matheson with eight members present. After the usual opening, Mrs. P.N. Palo gave her report of the Annual Convention at Charlottetown and short readings were given by Mrs. MacLennan and Mrs. Sheen. The school committee were authorized to buy two flags to be placed in the school to encourage the teaching of more Patriotism, and also to procure a sign board for the school. A bill of \$8.00, was ordered paid. The next meeting will be at the home of Mrs. George Sheen. GREENVALE.—Institute held their September meeting at the home of Miss Lillie Smith with eight members and five visitors present. Roll call was answered with "Where I would like to Travel". It was reported that a map had been purchased for the school and a wreath sent to the funeral of Gordon Brown. The members decided also to write a letter of sympathy to Mrs. Brown. The next meeting will be at the home of Mrs. Thomas Wall. MT. PLEASANT.—Branch held their September meeting at the home of Mrs. A. Ramsay with twelve members and six visitors. Roll call was answered with "Pumpkin Recipes". After reading the minutes of the Last meeting, the ladies were asked to tell why they come to the Institute and how they benefited by it. Mrs. MacInosh was appointed to send to the Experimental Farm for bulbs for the school and it was decided to supply a wash basin and bell for the school. One new member was welcomed. The next meeting will be at the home of Mrs. Joseph Larler. ALMA.—The September meeting of this new Institute was held at the home of Mrs. John P. Wallace with twelve members present. Three new members were welcomed. The requirements of Alma School were discussed and it was decided to hold a pantry sale on September 23rd to raise funds to supply certain necessities as new blinds, varnish for the old desks and a pencil sharpener. Papers on Women's Institutes were read by Miss McHugh. At the October meeting of this Institute, at which fourteen members and seven visitors were present, the committee reported that \$19.70 had been made at the pantry sale. The members decided to have the interior of the school unadorned, desks varnished and a new entry floor, door and platform. This work to be done before school opens for the fall term. The stove is to be painted with aluminum paint. Four new members were welcomed and a new school committee appointed. The next meeting will be held in the school. ELDON.—Fourteen members and one visitor attended the September meeting of this Institute held at the home of Mrs. M.F. MacDonald. The meeting opened in the usual manner and roll call was answered with "My Pet Superstition" and "My First Recitation". Satisfaction reports were heard from different committees, and new committees appointed. Since the last meeting a large lantern has been provided for the entrance to the Belfast Hall, and placed in the charge of the Directors of the Hall. Miss Margaret Martin reported that 25 pounds of candy had been sent to the Exhibition to be sold in aid of the P.E.I. Hospital. Branch Conveners were appointed and a programme committee consisting of Mrs. West, Mrs. Gillis, Mrs. Frank MacDonald and the Misses Martin and M. MacDonald were appointed to arrange for a programme for a concert, the date of which has not yet been definitely decided. The next meeting will be at the home of Mrs. Hugh Gillis when the roll call will be answered with "Donts for the Kitchen". The meeting was brought to a close by repeating the creed in unison and singing the National Anthem. RAZEL GROVE.—Institute met on September 15 at the home of Mrs. Pope Binns with twelve members and twelve visitors present. The meeting opened in the usual manner and reports from different committees were heard. Various bills for freight and flooring were presented and ordered paid. An interesting programme was carried out and consisted of the following numbers: Duet, Misses Vera and Norma Hughes; entitled "Hello Girls"; Reading Miss Vera Hughes; "My Gal Sal". At the next meeting, roll call will be answered with "My Favorite Book and Author" and members will meet with Mrs. Leslie Weeks. LOWER MONTAGUE.—Nine members met with Mrs. D.A. Horton on September 11 when the regular monthly meeting of this branch was held. The meeting opened in the usual manner, and different committees were appointed, also the Conveners of the standing committees. Roll call was answered with "Recipes for Favorite Desserts". Mrs. George Annear read a paper entitled "Something Else". The meeting closed with "Auld Lang Syne" and the members will meet next month at the home of Mrs. Benj. Wright. SHELBROOKE.—The September meeting of this Institute was held at the home of Mrs. George Harris with fourteen members and six visitors present. The meeting opened in the usual manner and the regular business was carried out. Magazines were donated by the members and sold to the value of \$1.12. The net proceeds of the Ice Cream and Social were voted to be paid toward the town hall debt. The sum of \$3.00 was voted to School Fairs, also \$3.00 to buy sugar to make candy to be sold at the Play. One new member was welcomed. Branch Conveners were appointed and refreshments were served and a social hour enjoyed. The next meeting will be held at the home of Mrs. A.J. Linkletter. EAST BALTIC.—Institute met at the home of Mrs. Elliot Bruce with six members and four visitors present. The meeting opened with musical selections by Miss Clara MacGregor. Roll call was answered by "Canadianism". Branch Conveners were appointed and a new map of the world offered for the school. The meeting closed with the National Anthem. The next meeting will be held at the home of Mrs. George Robertson when roll call will be answered with "Pumpkin Recipes". At the conclusion of this meeting a very dainty lunch was served by Mrs. Bruce and enjoyable music was furnished by Miss MacGregor. SPRINGFIELD.—The September meeting of this Institute was held at the school with eight members and one visitor present. The meeting opened in the usual manner, roll call being answered with "Picking Recipes". Mrs. F. J. Haslam and Mrs. Lambie were appointed school committee and a letter was read from Miss Matheson. A committee for the purpose reported that the flag pole had been repaired and a new rope supplied. Bills to the amount of \$7.00 were ordered paid. Roll call at the October meeting will be answered with "My Earliest Recollection". BIRCH HILLS.—Twelve members and seven visitors met at the home of Mrs. Ernest Newcomb on September 9th when the regular monthly meeting of this Institute was held. The meeting opened with the ode, followed by repeating the Creed in unison. Reports of the various committees were heard and new committees appointed. Conveners for the different standing committees were also appointed. An interesting programme consisting of a poem by Mrs. Robert Yeo, and a Reading by Mr. Martin was carried out. Mrs. Martin and Mrs. Yeo were appointed to arrange for a Sign Board to be erected. The next meeting will be at the home of Mrs. Leslie McLean. CHESTNUT.—The first regular monthly meeting of this new Institute was held in the schoolhouse on September 16th, with ten members and one visitor present. No new business was undertaken at this meeting, at which all members were duly enrolled. The regular day of meeting was changed to the second Wednesday of each month. The next meeting will be held at the home of Mrs. Hector McPhee.

CANADA NEEDS YOUR VOTE. If ever there was a time in the history of Canada when every man and woman should vote for a change of Government, it is NOW. Vote a straight Conservative ticket for MacKILNION and MESSERVEY, and make the wheels of industry hum—Bring back good times and your sons and daughters from other lands.