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# Fruit-actives

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## Scientific Miscellany

(Continued from Page 9)

**B.** The meal of a thin man of fifty is macaroni, bran muffins and butter, apple pie and tea, and he follows this with a glass of water, into which he has emptied a papadly balanced mixture, mortmaine C being represented.

Fossil plants usually appear as faint and unsatisfactory impressions on the rock, showing little or nothing of leaf or other structure in the fine details, but the treatment of John Walton, of Cambridge, gives results that amaze and delight the botanist. The plant imprints being pressed into balsam, the rock backing is dissolved away with acid. This leaves even the minutest of them sharp and veins standing out with surprising distinctness, and reveals the make-up of vegetation of millions of years ago.

The killing of fruit or other trees is prevented in a new method by encircling the trunk with a piece of rubber hose through which is circulated ice-cold water from a

refrigerating tank. This keeps the ly passes through the late frosts. A prune tree on which the method was tested showed no development three weeks after neighboring trees were in bloom.

The diamond field of Scott County, Arkansas, in which the first valuable stone was found in 1868, has now yielded about 6,000 diamonds, while the American product has included a few others picked up in neighboring States. The largest found weighed 21.25 carats, and another reached 17.85 carats, but most of them have been much smaller. Besides a large proportion of shill stones, they have included several fine brown and yellow ones. Dr. Geo. F. Kinn, the gem expert, has pronounced some of these diamonds fully equal to any from Africa or Brazil, and a few have sold for gems as high as \$500 a carat, though most of them have been preserved uncut in collections. While the average yield in African mines is about one carat to two tons of rock material, this recovery in Arkansas has been about one carat to eight tons. A geological survey bulletin shows that the diamonds do not occur in clusters, and they are not collected together in the volcanic pipes in which they are supposed to have been formed.

**Hardening of the teeth in the power saws used in lumber manufacture causes frequent delays in the operation of the mills, and the novel electrical tempering of M. Geerlups, Dutch engineer, is claimed to lessen the time of shut-downs very materially. An electrode being applied to the tooth, a five-volt alternating current, varying from 175 to 600 amperes, according to the size of the saw, is passed until the steel becomes bright red. The electrode is then removed, and the heat is withdrawn so rapidly through the body of the cold saw that tempering is effected without further treatment. As many as 400 teeth an hour may be tempered, and the process is said to have given an increase of 20 per cent. in the output of a Dutch Indies sawmill.**

**In a discoloration of the sea lately reported by K. Hirasaka, the entire surface of Gokasho Bay, Japan, became of a deep bloody or chocolate color, which increased from December to January 10 and began to diminish at the end of February, disappearing by the middle of March. The discoloration extended to a depth of four to six feet, the water being highly luminous. The cause was a new species of microorganism, a Dinoflagellate, which migrated, the color of the water being deepest in the afternoon.**

**Whole Wheat or Graham Bread is best. Graham or Saltine Crackers can be given. Soups—Beef broth with vermicelli; beef tea; chicken broth with rice; milk soup and strained vegetable soup. Meats—Beef should generally be rare. Roast beef rare, and finely chopped. Broiled lamb chops or broiled tenderloin finely chopped. White meat of chicken, finely cut and well cooked. Broiled or boiled fresh fish, well cooked. Eggs—Soft boiled, poached or scrambled. Bacon—Crisped. Vegetables—Asparagus tips, string beans, carrots, stewed celery, macaroni in milk. A soup thickened with milk (puree) of Bermuda onions; peas, baked potato, steamed rice and spinach. All vegetables should be thoroughly cooked and mashed. Desserts—Apple sauce, cup custard, junket, orange juice, stewed prunes, rice pudding, tapioca.**

## Child Welfare

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**Never give baby cakes, unless plain cookies; candy, unless two or three times a week. (Pure hard candy.) Baked beans. Pastry. Pork or tough meats. Pickles, and Bananas.**

## Latest Inventions And Improvements

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ible shaft, or special cylindrical tools with a number of small radial pistons can be used. In the latter case, the outer end of each piston is formed as a chipping tool. As many as 12,000 blows a minute can be obtained, yet the tool can be used safely on such soft material as the copper pipes employed in breweries. Perhaps the most interesting equipment is the petrol-driven set designed for use where there is neither compressed air nor electricity supply available. A 24-horse power petrol engine is mounted, with its fuel tank and all accessories on a steel framework, and the engine drives the sealing tools through a flexible shaft. This self-contained set can be clamped to a bridge-grinder in mid-span and makes available the economy of machine working in the most inaccessible places.

## Laundries at Sea

The washing of soiled linen which involves such turmoil and fatigue in the ordinary household, is performed so unobtrusively on a modern steamship as to escape all notice. Few ocean-travellers would be prepared to say that they had ever done a "wash day" on a liner at sea, and both in capacity and equipment, a steamship's laundry often exceeds that serving a provincial town. Spacious and quiet operation being important factors, it is not surprising to find that electricity is used. A British firm on board a well-known liner contains an electric motor driving a washing machine with water-heating tank, and hydro-tractor for removing water by hand washbasins for special articles and a full equipment of clothes bins and accessories. There are a number of electric irons, a collar and cuff machine with electrically heated roller. The arrangement of the various machines, ironing boards and so forth takes into consideration the value of space and the fact that the equipment has to be kept working in a confined space. There is no outward evidence of the existence of the laundry. Soiled linen is taken in at one door and clean linen emerges from the drying room 50 feet away. The process is just one of those unseen but essential services which help to form the luxury of modern travel.

## Efficiency in Road Transport.

Notwithstanding their many obvious advantages, self-contained vehicles of the lorry type suffer from the handicap that only employed usually whilst the whole vehicle is in motion. A railway locomotive can be uncoupled from one goods train and sent off with another whilst the first is being unloaded, but a steam or petrol lorry is idle whilst being loaded or unloaded. An ingenious means of overcoming this disability has been devised by a British firm of engineers. A petrol lorry with a self-contained frame is used simply as a locomotive in conjunction with a trailer of special design. Two important features contribute to the success of the combination, one being a new type of ball and socket coupling, and the other a means of raising the front wheels of the trailer when the latter is coupled to the locomotive. The ball and socket coupling provides the requisite degree of flexibility in all directions and it is so designed that it gives complete security when closed, but can be opened in a moment by one man. This is accomplished by the use of a split socket in conjunction with a simple mechanism which is semi-automatic in action. The fact that the front wheels of the trailer can be raised enables the combined tractor and trailer to run on six wheels, a very well known advantage, especially when the trailer rests on all four wheels, and can thus be handled without the slightest inconvenience as an independent unit.

## Cleaners for Textile Fabrics.

Thousands of years ago soap was invented, but its manufacture was certainly not practised in Pompeii for the remains of a soap works have been discovered in that ancient city. It is only during the last half century, however, that important advances have been made in the technology of cleansing materials and the full complexity of the problem has been realized. The importance of the subject in relation to the preparation of textile fabrics for bleaching, dyeing, printing and finishing is such that

## Getting Too Fat? Try This—Reduce

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People who don't grow too fat are the fortunate exception. But if you find the fat accumulating or already cumbersome, you will be wise to follow the suggestion which is endorsed by thousands of people who know. Ask your druggist for Marmola Prescription Tablets and follow the directions. One dollar is the price the world over. Get them from your own druggist or send price direct to Marmola Co., 1612 Woodward Ave., Detroit, Mich. By doing this you will be safe from harmful drugs and be able to reduce steadily and easily, without starvation diet, tire-some exercises or absurd greases and salves.

The full resources of modern science have been applied to investigating the nature of the dirt to be removed, and the best method of effecting its removal without weakening the fabric. Soluble dirt must be dissolved, insoluble dirt must be loosened and as far as possible, the operations of scouring and bleaching must be made to occur simultaneously. As a result of scientific investigations a number of British experts, certain solvents of aluminum in colloidal form are now subjected to a treatment which renders them peculiarly effective in scouring operations. Their use frequently eliminates several operations in the preparations of fabric while giving perfect cleanliness and leaving the fabric in a stronger state. The solvents, which are cheaper than ordinary ones, are more powerful and have a powerful solvent action on all conditions. Without such cleansing it is impossible to get the full brilliance of dyed goods, or the full sharpness of printed materials.

## Boilers for Outlandish Places.

In many parts of the world, separated from civilized life by natural barriers such as forests, mountains or rocky country impassable by wheeled traffic, there is work which could be done by steam power if only suitable boilers could be got into position. Standard steam boilers, weighing some tons and demanding a railway truck or similar means for their transport, are obviously out of the question. Sectionalized boilers made up from parts bolted together are however equally applicable and a well known British firm has supplied many boilers of this type. The main body of the boiler is built up from a number of cylindrical rings which are supplied ready for bolting together by unskilled labor. Generally the boiler weighs about 400 pounds (180 kg.), but this figure can be reduced if necessary. These boilers can be arranged to burn any fuel, from oil or coal down to wood refuse or other waste material. By their all-weather power they come available in almost any inhabitable part of the globe, and constitute an important factor in the development of new districts.

## Packing Cotton for the World's Markets.

For one purpose or another, cotton goods are used in every part of the world and as a consequence, the transport from the mills to the carriage is by every known means. To suit the conditions encountered in different countries, it is necessary to make the goods widely in weight and form. For example, a bale which can be handled by crane and railway on one route would be unmanageable in that of native bearers and mule-train passes. The great packing houses which are to be found in the center of the British textile industry, employ the expert workers who are conversant with the needs of every market and the facilities for transport in every part of the world. In these establishments the cotton goods are fed into machines producing anything from the small packages which are carried by mule to Central Africa, up to the hydraulically-compressed bales needed for the markets of the East. The care devoted to the folding, cutting, ticketing and packing of each class of goods for the particular market concerned represents a service of the highest value to the consumer. Incidentally, it is a service which can only be rendered effectively by an elaborate organization based on world-wide experience. The importance attached to the matter by British firms is entirely justified.

## Concrete-Lined Pipes.

An important advance in the art of making pipes for the conveyance of water under high or low pressure is to be found in the process devised by a British firm for applying a lining of concrete to cast iron pipes. Where plain iron pipes are used, it is necessary to use a larger size than would otherwise be needed so as to allow for the effect of incrustations in roughening the surface of the metal and reducing the effective section of the pipe. Anything from 30 to 50 per cent. extra must be allowed in the initial delivery capacity of the pipe, and this naturally increases the cost of the installation to a serious extent. It has been found that a concrete lining practically eliminates the formation of deposits even from hard water and in addition the surface of the concrete can be rendered perfectly smooth. The success of the system naturally depends on a dense lining of concrete being applied cheaply and with perfect truth and security. This end is attained by a new British machine in which the pipe to be lined is rotated at high speed so that the concrete is driven into place by centrifugal force. A lining from 1/2 inch to 1 inch in thickness is obtained according to requirements, and pipes of all diameters from 4 inches to 72 inches have been lined successfully. When used in conjunction with spun cast iron pipes, which are another development by the same manufacturer, further advantages are secured, for the spun pipe is about 25 per cent. lighter than an ordinary cast iron pipe and needs no machining before it is lined with concrete.

## Convention at Halifax

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Rev. Dr. McLellan most capably expounded the advantages of education. Starting in the home the child's prayers and leads it along the paths of virtue and rectitude. Moral development, the unfolding of the will and physical progress must all be made at the same time. The mothers began in the home what the schools and colleges followed up. It was important to have the best class of teachers and suggested that the parents should interest themselves in the system taught as well as in the teacher who instructs their children. He deplored the lack of reverence of parents and to teach their children obedience and respect of authority. The parent should be sure that in furthering the higher education of his child that his faith would be safeguarded.

Miss Rochael Hagan gave several pleasing vocal selections and a solo by Mrs. Burke who possesses a very clear and sweet soprano voice proved most pleasing to the large audience.

Sunday at 11 a.m. Pontifical High Mass was chanted by His Grace Archbishop McCarthy and a sermon preached by Rt. Rev. James Morrison, D. D., Bishop of Antigonish who honored the Catholic Women's League in its work and hoped to see it established over all our fair land doing the work of the Master that came to hand but ever having the broad outlook and wide vision that extends help and cheer wherever God's creatures are in need. "For I was hungry and you fed me, I was thirsty and you gave me to drink, I was naked and you clothed me, I was in prison and you visited me, I was homeless and you gave me shelter." Such was the work of Catholic Women and for such Christ Himself has promised the reward of Eternal Life.

During the afternoon the delegates were driven to beautiful Mount St. Vincent around Bedford Basin where a Reception was held with a Sacred Musicale and Pontifical Benediction given in the beautiful chapel. Archbishop McCarthy pontificated and the Rev. O'Reilly, Spiritual Chaplain of Mt. St. Vincent preached a beautiful and inspiring sermon. A drive to St. Mary's Boat Club on the Northwest Arm where tea was served proved a pleasing close to nine days well spent.

Monday forenoon and early afternoon was taken up by unfinished business, presenting of resolutions and action thereon and discussion of Dominion Conventor's reports. At 4:30 p.m. a delightful reception and musicale was tendered the delegates by His Honor Lieut. Governor McCallum Grant and Mrs. Grant at the beautiful and historic old Government House. His Honor the Lieut. Governor and Mrs. Grant received and tea and ices were served by Halifax ladies. A most delightful musical program was carried out in the charming ball-room after the reception and informal greeting of the delegates by the guests invited to meet them added much to the pleasure. A magnificent bouquet of roses was presented Miss Guerin by Lieut. Governor McCallum Grant and indeed this charming lady's visit to Halifax may be said to be perpetuated by flowers as each and all seemed to vie with each other in showering floral expression of their affectionate regard on every occasion possible. Monday night a banquet attended by 350 women was held at the Queen Hotel. It was the largest affair of this kind attended entirely by women ever seen in Halifax. The dining room was gorgeous in its floral decoration it rose and white interspersed with greenery and reflected from the many mirrors surrounding the hall. The all charmingly gowned and the sweet strains of the orchestra half hidden in a bower of roses and palms and composed exclusively of members of the Catholic Women's League, made a scene not easily forgotten. The toast list was as follows, Mrs. J. C. Hagan of Halifax acting as Toast Mistress:

- The King—Orchestra.
- The Pope—Orchestra. Miss Guerin.
- The Dominion President—Mrs. J. C. Hagan.
- The League—Miss Mary McMahon.
- The Clergy—Lady Hingston.
- The Press—Mrs. A. G. Emerson.
- The Men—Mrs. J. P. Byrne.
- Our Sister Societies—Mrs. J. P. McManus.
- Our Hostess—Miss Marion O'Connell.
- Our Juniors—Miss Sara Tansey.
- Our Country—Orchestra.

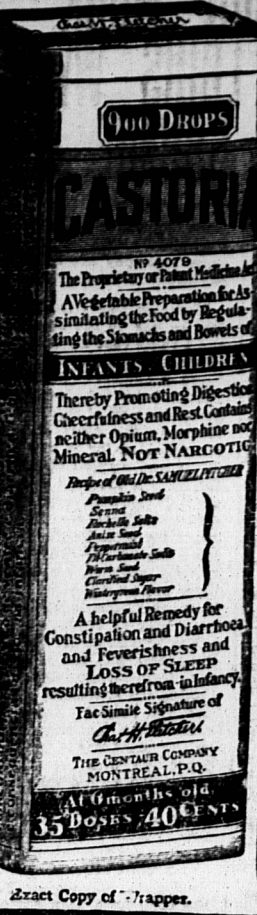
Needless to say the ladies responding to the toasts proved that the gift of eloquence and the art of Oratory are not exclusive gifts of the male genius and hearty and spontaneous applause and at times merry laughter interrupted the speakers and a night of good fellowship and fraternity came to a glorious end by the singing of the National Ode "O Canada."

Tuesday morning the nominating Committee brought in its report after all business had been concluded and during the afternoon the Election of Dominion Executive officers was proceeded with. Miss Guerin who has served three years as Dominion President retired, and was presented with a life membership and the position of Honorary Dominion President to be held during her lifetime in recognition of the inestimable services rendered the League during her tenure of office. The presentation was made by Lady Hingston who together with Miss Guerin was presented with beautiful floral offerings from the

ladies of Antigonish Diocese. The result of the election was as follows: Dominion President—Mrs. W. H. Lovering, Hamilton, Ont. Vice President—Mrs. J. E. Owens, St. John, N. B. 2nd Vice President—Lady Hingston, Montreal. 3rd Vice President—Mrs. J. J. Duggan, Edmonton, Alta. Honorary Treasurer—Mrs. B. C. McCann, London, Ont. Honorary Secretary—Miss Mary McMahon, Toronto, Ont.

## Dominion Conventors

Travellers Aid—Mrs. J. E. Owens, St. John. Social Welfare—Lady Hingston, Montreal. Immigration—Mrs. J. C. Hagan, Halifax. Education—Mrs. F. J. Murphy, Antigonish. Organization and Law—Mrs. M. Lyons, Ottawa. Magazine—Mrs. W. H. Lovering, and Miss McMahon. Mrs. J. J. Johnston of Charlottetown is a Dominion Conventor and served on the Law Committee. Mrs. W. J. McIntyre of Charlottetown was recommended to serve for the province of P. E. Island on the Social Service Committee. Immediately after election the retiring president, Miss Guerin gracefully installed the new officers and spoke feelingly of the splendid co-operation and efficient aid which was ever accorded her during her presidency by the executive officers and councillors. She promised to be ever present with the league in person and spirit whenever and wherever they might in future foregather. A wonderful amount of work had been accomplished and altogether the most successful convention held by the Catholic Women's League of Canada came to a successful close June 26th when all gathered together, hand clasping hand and sang "Auld Lang Syne."



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