What Science Is Doing

LAMP DESTROYS GERMS

The portable germ-killing lamp which was recently developed at St. Michael's Hospital, Toronto, is expected to assist enormously in elimination of the danger of infection during and following operations.

GLYCERINE FROM GAS

It has just been discovered that glycerine, one of the chemicals in world-wide use, can be made from a gasoline by-product, waste gas.

From ancient days the only source of glycerine has been animal and vegetable fats. The new glycerine is neither animal nor vegetable in source.

TO END COMMON COLD

Medical research will uncover within two years vaccines to prevent the common cold and influenza, the respiratory ailments which are together responsible for more than half of the time lost from work because of illness by employees in American business and industry, Dr. Victor G. Heiser, public hygienist and consultant for the U.S. National Association of Manufacturers predicts.

"RUBBER" GLASS

Science's newest contribution to automobile safety is "rubber" glass, which stretches and may break, but does not fall apart.

Ability of the glass to resist severe impact and maintain its elasticity under rigid tests has been demonstrated.

The new plastic is expected to lessen the possibility of injuries resulting from a person striking an automobile windshield or window.

The rebuilding of the Argentine section of the Transandine Railway, destroyed by a landslide in 1934, is to be started by the Argentine government, which has purchased the road to restore overland trade with Chile.

Farm Forum

Q.—I wish to secure the approximate analysis of pure chicken manure. That is, manure that contains no litter.

I would also like to have any information you can give regarding pure chicken manure for lawns, golf courses, etc.—"R.A.P. Durham County."

A.—The average of a large number of reliable tests as to the composition of poultry manure shows that this material carries to the ton, 22 lbs. of Nitrogen, 17 Phosphoric Acid (P2O5) and 11 Potash (K2O). This would give it a ton composition of about 1.1-.85-.56, or if you would multiply it by 10, it will be in about the same ratio as 11-8-5. This is about the same ratio of plantfood as that offered by one of the large Fertilizer Companies in their Special Fertilizers for golf greens. They offer 10-6-4. The point I wish to make is that the N.P.K. ratio is about the same. A well-known fairway ratio is 5-12-2 which is the same in Nitrogen and Potash, but about 4 times as strong in Phosphate which would lead me to believe that if you were going to attempt to use chicken manure on golf course fairways or on lawns, it would be best to add enough Phosphoric Acid to increase the Phosphoric Acid content about 4 times, which would be about 40 lbs. Superphosphate (16%) per ton of manure.

—Henry G. Bell, Dept. of Chemistry.

Three Baby Bears Goldilocks Would Have Loved

Goldilocks would have been welcomed last week by employees in the Canadian Pacific Express Offices of Windsor Station who had three bears to take care of and didn't know just quite what to do about it. Three black bear cubs from Northern Ontario, just as hungry as weak-old cubs can get, were yowling for their mother and ignoring all friendly advances on the part of the expressmen. They whined pitifully for food until the expressman produced a baby's bottle, nipple and all. And then it was all over but the gulping. The cubs could not have been much more than a few weeks old. They were being shipped by Canadian Pacific Express under a Department of Game and Fisheries permit from Jack Leve at Sudbury to Miss Elinor M. Crowe at Peguannock, N.Y.

Gardening

TIMELY HINTS

Seed catalogues put out by the large firms contain much more than a mere mention of the many flowers and vegetables available in Canada. They specify important points such as time of planting, resistance or lack of resistance to frost, height, color, season of blooming, whether scented, and also the suitability of the flower for cutting purposes.

All of these points should be taken into consideration in planning a real garden. Little plants must not be hidden by tall things, and there should be as much bloom in the garden as possible from early June on.

QUALITY VEGETABLES

The secret of tender vegetables, whether they be grown in the city or on the farm, lies in quick growth. A check caused by dry weather or anything else invariably causes woodiness. To eliminate such danger experienced market gardeners push their plants along with frequent applications of carefully applied commerial fertilizer.

GARDEN FOR THE TENANT

Pleasures and profits of gardening are not confined to the owner of property. Even the tenant who moves as regularly as May 1st may have a garden which will rival that of the most permanent nature. Of course he will not be inclined to spend a great deal of money on shrubs and trees but he gets much the same effect with annual flowers and vines.

There are at least a score of big bushy annuals like dahlias, cosmos, African marigolds, and castor beans which will reach a height of three to four feet by mid-July. These will furnish ample background for the hundreds of dwarf to medium height annual flowers which are listed in any seed catalogue. To screen verandahs or fence, such things as scarlet runner beans, morning glories or hops will do the job in a few weeks.

How Can I?

BY ANNE ASHLEY

Q.—How can I make candles, that are too large, fit the candlesticks?

A.—It is an easy matter to make over-sized candles fit any candlestick. Merely dip the candle for a minute into very hot water. This softens the wax and it can easily be pushed into the candlestick.

Q.—How can I remove paint spots from a woollen garment?

A.—Equal parts of turpentine and ammonia seldom fail to remove paint spots from the woollen garment, regardless of how old the stain may be.

Q.—How can I be certain that spinach is not overgrown, when marketing?

A.—When buying spinach, be sure that straight leaves of a deep green are selected. If the leaves are curved it indicates that they are overgrown.

Q.—What is a good kind of work-chair to keep in the kitchen?

A.—A chair with one wide arm, similar to those in many lunch rooms, is excellent for the kitchen. It is just the thing when peeling potatoes, stringing beans, and such tasks, or to use as a desk when writing.

Q.—How can I treat the tiny wrinkles that appear around the eyes?

A.—Massage muscle oil gently into the skin around the eyes with the finger tips every night before retiring.

Q.—How can I prevent the formation of icing, or turning back to sugar, when making syrup?

A.—When the syrup is coming to a boil, add one-third teaspoon cream of tartar to every 2 cups of sugar used.

Marie—the last-named, however, w a very favorable rate in 1935.

Galt Heads Five Best

After the five places already listed, there came, in 1937, Kirkland Lake, 73.2; North Bay, 70.1; Sudbury, 68.6; and then a gap of more than 10 points to Oshawa's 58.0. There followed: Sarnia, 52.6; Owen Sound, 52.1; Woodstock, 51.2; Brantford, 51.1; Windsor, 51.1; Toronto, 49.9; Stratford, 48.6; Welland, 48.3; Belleville, 47.2; Kingston, 46.9; Kitchener, 46.3; Guelph, 43.9; Chatham, 43.0; Peterborough, 42.9; Hamilton, 38.1; London, 36.6; Port Arthur, 35.3. Then came the five most favorable rates of 1937.

Tribute to the international character of Boy Scout training was paid thus by President Grover Whalen of the New York World's Fair, at the erection of the first tepee of the Boy Scout camp which will be one of the features of the fair.

Said the fair's president: "We could not feel that this great exposition—international in character as it is, and representing all the social and economic needs of our country—would be complete if we did not have this Scout camp."

Some 300 Polish-Canadian Boy Scouts and Girl Guides of Hamilton turned out to honour a visiting Scout Commissioner from Warsaw, Poland, at St. Stanislaus Parish Hall. Among the guests were Sir George McLaren Brown, President of the Provincial Scout Association, and District Commissioner Col. L. H. Millen.

Scout parents and friends attended the birthday party of the First Acton, Ont., Scout Troop, and were given a genuine introduction to Scouting. Under young Scout teachers they were divided into patrol groups, and then put through sessions of instruction and examination in knotting, compass reading, first aid and other Scout training subjects.

A feature of the annual Boy Scout services in honour of St. George, the patron saint of Scouting, on April 23rd, will be a broadcast address to Scouts throughout the Empire by the Deputy Chief Scout, Lord Somers, from London. The address will be heard in Canada by short-wave at 5.35 p.m., E.S.T. A transcription will be heard at 10.05 p.m., E.S.T., April 24th.

Have You Heard

Young man to nurse in doctor's office: "I wish to see the doctor please. I have an appointment."

Nurse: "He's busy just now. Just step in here please. (Handing him a small garment) Please strip and put these on." (The nurse retired immediately and the young man did as bid.)

Doctor: (ten minutes later) "Well, what's wrong with you, my boy?"

Young man (looking rather sheepish in his abbreviated garment): "Nothing, sir. I wondered if you'd be interested in a two-year subscription to the Family Journal. I'm working my way through college."

Doctor: "Well, how is the insomnia, now?"

Patient: "Oh, better, thank you, doctor. I used to count up to 5,367 sheep before I went to sleep and now it's only 4,986."

Wagg: "'Say! More than one person has been guilty of mutilating the books I lent them, but my latest experience caps the climax."

Wigg: "What was it."

Wagg: "I lent Blank my dictionary last week, and yesterday he returned it without a word."

Most men who die with their boots on, would still be alive if they had sneaked in in their stocking feet.

"I hear your husband's coming home after all this time, Mrs. Murphy," said Mrs. Flanagan. "Do you think he'll be changed?"

"I expect his hair will be shorter," ventured Mrs. Murphy.

Baseball Player: "I wasn't out!"

Umpire: "Well, just have a look at the papers tomorrow."

Uncle Ab says success in farming requires three things: Good soil, good weather, and a good farmer.

Weeds are ranked second to erosion damage to American farms and are responsible for an annual loss estimated at $3,000,000,000.

Modern Etiquette

BY ROBERTA LEE

1.—Should one twist his feet around the rungs of a chair?

2.—What is the real definition of "etiquette"?

3.—When two men and two girls are dining together at a table for four persons, how should they be seated?

4.—What is the proper way to introduce a young man to an elderly man?

5.—Is it necessary for a woman to say "please" and "thank you" to her own servants?

6.—Should one pick up a dropped napkin when dining in a restaurant?

Answers

1.—It might be pardonable when in a chair on the lawn during a windstorm, in a vain attempt to find an anchor. Otherwise the feet should be placed in front of the chair, in a relaxed position. 2.—The forms required by good breeding, social conventions, or prescribed authority, to be observed in social or official life. 3.—The two girls should face each other. 4.—The young man should be presented to the older man, mentioning the elder man's name first; "Mr. Marshall (who is seventy), this is Mr. Hudson (or Edward Hudson)." 5.—There is nothing obligatory about it, but as it is such a trivial courtesy to extend to the people who are serving one, a well-bred woman will do so. 6.—No; let the waiter pick it up. He will also give you a clean napkin.

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Issue No. 16—'39

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