



-Department of Horticulture-

Miss Marple Rides Again

The mysteries and problems of storing food produce are being investigated in the Department of Horticulture. The detective is Miss MARPLE and her assistants are Prof. E. W. Franklin and Prof. E. C. Lougheed.

The investigations will mean better food products through improved storage of fresh fruits and vegetables.

You may recall that Miss Marple is the elderly English spinster, part-time detective, and perennial busybody who solves many of the homicidal mysteries in Agatha Christie's novels. Miss Marple used deductive reasoning rather than the presently popular dramatic techniques of James Bond and his imitators.

In the Department of Horticulture a sophisticated

analytical complex is being used. This instrumentation will do for food storage problems what its namesake Miss Marple has done in mystery fiction.

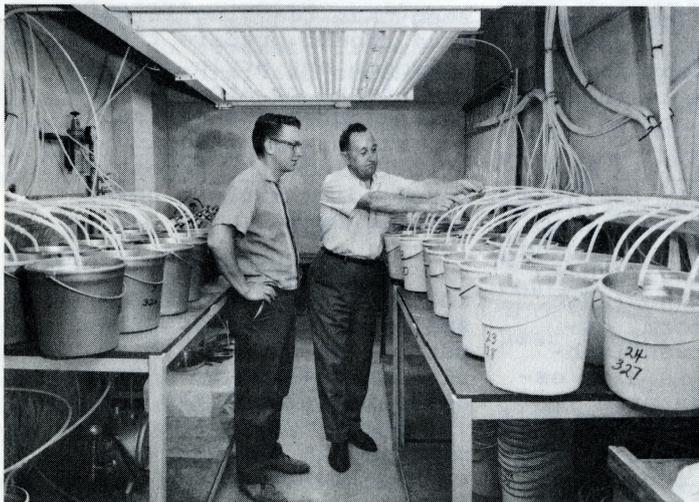
The instrument (MARPLE - Multiple Automated Respiration Photosynthesis Logging Equipment) is designed to continuously and consecutively measure the amount of carbon dioxide produced in respiration by fifty-two samples of plants or plant parts. This will provide important clues as to the behaviour of the produce in storage or on the display counter in the supermarket. (Respiration in a plant is the equivalent of breathing to the human).

Miss MARPLE will also measure the rate of photosynthesis or the uptake of carbon dioxide by plants.

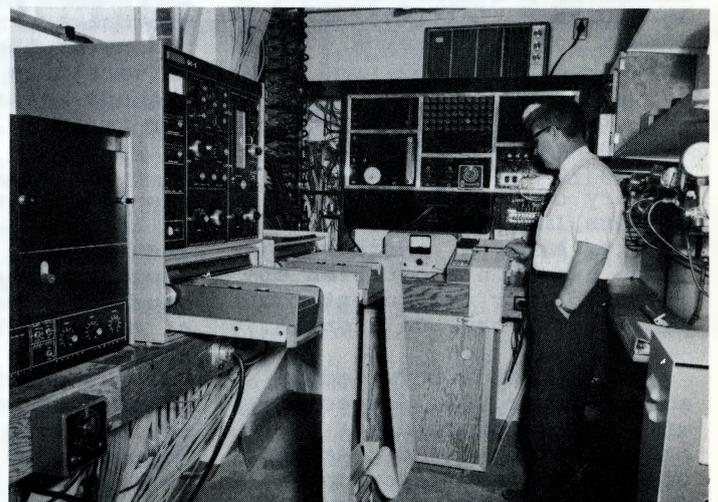
Such investigations along with additional clues will provide answers to as yet unsolved problems in storage and plant physiology, Professors Franklin and Lougheed predict. Investigations could have an effect on the future quality and availability of the fresh horticultural produce that appears in supermarkets they say.

Miss MARPLE, initially financed by the Ontario Department of Agriculture and Food and automated through a grant from the National Research Council, is unique in Canada. Last year through another grant from the National Research Council a gas chromatograph was added to the instrumentation. This chromatograph will measure compounds which contribute to the appealing odours and flavours of ripening fruits. Some of these influence storage life and their loss detracts from quality and consumer acceptance. As funds become available the present system will be extended to monitor more samples and a system for analyzing oxygen will be added.

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Technicians Len Wiley, left, and Cyril Cook, inspecting respiration samples undergoing tests. The samples were taken from the experimental plots.



Dr. E. C. Lougheed is shown with Miss Marple in background and the recently acquired Gas Chromatograph on the left.

Appointments

Dr. I. L. Nonnecke has recently been appointed Associate Professor of Horticulture with major responsibility for the total extension program in horticulture from O. A. C.



I. L. Nonnecke

A graduate of the University of Alberta and Oregon State University, Dr. Nonnecke brings to Ontario horticulture a wealth of North American experience and knowledge of crop production and handling.

For 18 years he headed the Horticulture Research Section of the Research Station, Canada Department of Agriculture, Lethbridge, Alberta. During this time Dr. Nonnecke was concerned with the production of short-season vegetables under irrigation.

He is the author of many bulletins on practical fruit, vegetable and flower production in Prairie Canada and has released more than two dozen hardy chrysanthemum cultivars that are adapted to Alberta conditions. While at Lethbridge he was very active in the Western Canadian Society for Horticulture, the Agricultural Institute of Canada and the Alberta Horticulture Association.

In 1963, Dr. Nonnecke became president and general manager of the Canadian subsidiary of Associated Seed Growers Inc. (Asgrow) at Brooks, Alberta. More recently he has been production coordinator for the parent company at Salinas, California.

As horticultural advisory officer, Dr. Nonnecke will be responsible for the co-ordination and dissemination of applied research information to the horticultural industry in Ontario.

Dr. Mascell Leonard Beckford has been appointed Assistant Professor in the Department of Agricultural Economics. Dr. Beckford taught in Kingston Senior School in Jamaica, obtained his B. Sc. and M. Sc. degrees at Pennsylvania State University in 1958 and 1960 and his Ph. D. at the University of Manitoba, Winnipeg, in 1964.

Dr. Beckford held a Canadian Commonwealth Scholarship during 1961-1964 and has worked as a research assistant at Cornell University and in research and statistical positions for the Manitoba and Canadian governments.

Dr. Beckford is expected to arrive on campus at mid-August and will live in Guelph with his wife and two children. His field of interest is Agricultural Marketing and he will be teaching undergraduate and graduate courses in that area.

MARPLE

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"Even at present," Prof. Lougheed says, "Miss MARPLE produces information so quickly that a computer will be needed to tabulate and store it."

Infra-red instruments are used in many areas of research. Miss MARPLE is a close relative to IRMA (Infra-Red Milk Analyzer) in the Department of Agriculture and Food Laboratory in Guelph.

Miss MARPLE, although like her namesake lacking considerably in sex appeal, has an interesting personality. At present she is located in the Horticultural Storage Laboratory south of the Greenhouses, busily preparing for another hectic harvest season.

Music Department Adopts Programmed Learning Courses

The Music Department will adopt programmed learning courses in their September curriculum, announced Professor Ralph Kidd of that Department.

"Although widely used in the United States since 1960, the University of Guelph will be one of the first Canadian universities to adopt these methods in harmony as well as ear training," he stated.

Music 110 - 111 is designed to give basic training in harmony as practiced from 1600 - 1900. Theory training, however, must include other studies as well. Knowledge of counterpoint, form, orchestration, and twentieth-century practices is also essential to comprehensive musicianship. The adoption of a programmed text will enable this ground to be covered in record time and also permit the student to review any area that may present a particular difficulty to him.

In order that ear training may progress concurrently with harmonic development, a programmed text in this area has been instituted as well. More and more attention is being given to the problem of how to include the twentieth-century idioms in early instruction. It would seem that teaching in this area should prepare the way to approach any style, old or new, tonal or atonal. The text adopted has devised a program of ear training that will include the traditional tonal idiom without being limited by it.

In programmed instruction, information is presented in small, carefully sequenced parcels which combine in cumulative fashion to give students mastery of the subject. The parcels into which the material is divided are called frames. Most frames require a written response, which may be a word or two, or consist of the solution to a musical problem.

ORIENTEERING

The University of Guelph is the home of a growing number of athletes of an unusual and new variety. They will be found dressed in boots and hiking shorts rather than the usual sweat suit and tennis shoes. With a compass and map in hand they spend their spare time tramping through the bush in search of marked posts. These 40 athletes belong to the O (Outing and Orienteering) Club of the University of Guelph.

Orienteering is actually an old sport, but not to North America. It originated in the Scandanavian countries about 1920 but has just begun to catch on in this country within the last five or ten years. Guelph is presently the only University in North America to offer courses in orienteering, and Professor A. Peepre, of the School of Physical Education is one of the men most responsible for its growth in Canada.

Basically, orienteering is finding one's way through unknown country with the aid of a map and compass. It originated largely because of its practical implications, especially for military purposes and to hunters, fishermen, prospectors, and campers. Recently, it has become a competitive sport, although it still continues to have practical functions.

At the University of Guelph, it is taught as a form of outdoor recreation, with competitive events somewhat similar to a car rally. The object is to travel from one point to the next in an unknown country-side, finding the way with the aid of only a map and compass. The fastest finishing time wins the competition.

There are more skills involved than just map and compass use, although these remain vital. The hiker must be physically fit, for the course is often long and rigorous, and because the object is speed as well as accuracy. Also the ability to make split second decisions is very important.

Prof. Peepre, Estonian born, and educated in Finland, is largely responsible for the spread and acceptance of orienteering throughout Canada. He is the national chairman for the Orienteering Committee of the Canadian Association for Health, Physical Education, and Recreation. At present, Canada is conditionally accepted to the fourteen nation International Orienteering Federation, almost entirely a European group.

The Federal Fitness and Amateur Sports Directorate recently awarded the Committee a grant to be used to hold three regional leadership clinics. They will be directed by Prof. Peepre and will be held this fall at the University of Calgary, University of New Brunswick, and at Queens University.

The first orienteering championship competition was recently held at Corwhin, a small community just outside of Guelph. One hundred and thirty five people participated in the event, which was jointly sponsored by the University of Guelph's School of Physical Education and the Ontario Orienteering Association. Major James Hardin, of the U. S. Marine Corps, Physical Fitness Academy was present to observe the proceedings, as there are apparently very few places to learn the skills of orienteering in the United States. Prof. Peepre says that "the competition was a great success and encourages us to continue with more meets and projects in the near future."

The O Club at the University was formed at the beginning of the year and it is growing steadily. The student president, Duane McCartney, was the men's champion at the

Corwhin competition, and its members include faculty as well as students. The club sponsors a number of events and projects which include social functions as well as orienteering competition. They are presently in the process of building an outdoor recreation area near the University, including an amphitheatre type area for campfires and sing-songs.



Prof. A. Peepre

Orienteering will be taught at the annual National Track and Field Coaches Clinic held at the University of Guelph for the 4th year. This year's dates are August 19 - 30. The Clinic, sponsored by the Department of Health and Welfare at the University of Guelph, attracts about 150 high school and university coaches from throughout Canada. Prof. Peepre and John Disley of England will handle the orienteering portion of the program.

FACULTY ACTIVITIES

Prof. T. O. Graham, Horticulture, attended the sessions of the Canadian Society for Horticultural Science held at McMaster University. He presented a paper entitled "Changing Pattern in the Breeding Program at Guelph as Necessitated by the Presence of Open-type Tomato Vines with Exposed Fruit."

PARKING LOTS TO BE PAINTED

The separating white lines on all parking lots on campus, which are covered with macadam, are to be repainted during the month of August. The maintenance department is planning to accomplish this with as little inconvenience as possible.

GUELPH LEADS IN NEW SPORT

NEXT WEEK AT GUELPH

Friday, August 9

Reunion Year '53 OAC Reunion - continues Saturday.
Meeting Johnston Hall Proctor Orientation continues Saturday, Sunday.

Tuesday, August 13

Visitors C. F. P. L. Farm Listeners (C.F.P.L. Radio-TV, London.)

Wednesday, August 14

Seminar Senior 4H Engineering Club Seminar.

VISITORS ON CAMPUS

Professor A. B. Cashmore, Assistant Dean, College of Agriculture, University of Melbourne, Australia, spent two days on campus studying the pattern of operation at the OAC, both in courses and administration. He also spent some time in the Department of Crop Science with Dr. J. E. Winch.

Several delegates attending the Young Adult Conference being held at the YM - YWCA in Guelph toured the campus. Young people from around the world were in Guelph to attend the meeting.

WEEKEND MAGAZINE FEATURES STORY ON SEALS



Technicians Marilyn Foster, left, and Elizabeth Johnson are shown with the baby seals. (Photo by Ken Barton, Guelph)

Philip Smith, a feature story writer with the Weekend Magazine, and Harold Whyte, a photographer, were on campus to interview Prof. Keith Ronald, Department of Zoology, on his work with the seals.

A three page story, complete with pictures in colour, appears in the July 20th, issue of the Weekend Magazine.

There are now ten seals in the care of the Department of Zoology.

* The News Bulletin is published each week by the Department of *
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* Copy for the next edition must reach the editor, Room *
* 361, Library not later than noon Friday August 9. The *
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* Post Office Department, Ottawa, and for payment of postage *
* in cash. *
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PERSONALS

HOUSE FOR SALE

Private - to settle estate - University area, 2 storey brick, 4 bedrooms, corner lot, 138 feet deep. \$25,000 cash. Phone 822-9085 or 824-3586.

WANTED TO RENT

3 bedroom house or apt. furnished or unfurnished by Sept. 1 or earlier. 824-7423.

FOR SALE

'63 Pontiac Parisienne Convertible, Ext. 2275 or 824-9327.

'65 Morris 1100 - J. J. Loveday. Ext. 3447.

'66 Chevelle, 22,000 miles. Prof. Arthur, Local 2292.

RIDE WANTED

Ride from Acton to University, arriving by 8:30. Ext. 2426.