



Study of asthma at Guelph supported by Christmas Seals sale

Asthmatic children are treated in much the same way as cardiac patients were treated several decades ago. They are not allowed to participate in so many activities (or are under sufficient sedation to make participation unwise) that their inherent needs for activity are suppressed.

In grade school, asthmatic children are told to go slowly up stairs, stay indoors on wintry days and avoid violent sports. Early in life, they get used to the idea of sitting on the sidelines while other children engage in the normal activities of youth.

"They are not looked upon as equal to other children by their parents and their peers," says Professor R. B. Walker, of the School of Physical Education at the University of Guelph. Professor Walker is coordinator of a study on asthmatic children at the University.

The success of the physical conditioning classes administered by the Wellington County Tuberculosis and Respiratory Disease Association led to a desire by medical practitioners to determine, qualitatively, the

benefits of this program.

A pilot study was initiated early this year to examine tests of cardio-pulmonary response to work, applicable to asthmatic sufferers. Grants totalling \$7,000 from both the Canadian and Wellington County TB and RD Association and the U. of G. Research Advisory Board were awarded to Professor Walker to conduct a long-term investigation of this problem.

Children suffering from asthma are transported to the Physical Efficiency Laboratory at the University daily to undergo rigorous tests. These determine the child's state of general health as well as the severity of his affliction.

Such pre-exercise examinations, after consultation with family physicians, are used to determine the relative abilities of these children with regard to their work capacities, oxygen uptakes, nutritional status, pulmonary obstructions and physical efficiency.

The treadmill in Professor Walker's laboratory has been equipped with special ap-



Computer-controlled treadmill adjusts speed, slope to all conditions from running to walking, uphill or level.

paratus to help him determine the status of the patient. Heart rates, breathing rates, sweating responses, oxygen utilization, carbon dioxide production, etc., are obtained using telemetric equipment to control work output and determine its effects. The asthmatic child wears a mouthpiece connected to a breathing valve which directs expired air to a collection apparatus.

Before, during and after the treadmill test, the air sample is examined each minute, and oxygen and carbon dioxide contents are measured. Also, the number of breaths taken each minute is calculated.

From this data, the efficiency of the patient's respiratory system can be measured. In particular, the data indicates how much each asthmatic child can exert himself before going into oxygen debt, which occurs in everyone when the body cannot sustain the work load without calling on energy reserves.

In the first phase, data collected (prior to the treadmill work) assists Professor Walker in determining any malfunction or deviation from normal which might be present in the asthmatic child. As expected, asthmatic children cannot breathe as effectively

Continued on page 7.



Computerized handling of research data.

REPORT FROM SENATE

November 25th Meeting

Senate last week did some preliminary sparring prior to the anticipated main event featuring the report on academic administrative organization.

There were some indications that senators might be willing to give approval in principle to the report's main recommendation of the creation of seven colleges perhaps more rapidly than expected.

But it was also evident that several faculty members from OAC departments, who oppose a division between the agricultural and biological sciences, may be prepared for a long, hard fight to keep the two together.

Last week's meeting was primarily for the purpose of clarification of sections of the report. Senate will have another crack at discussing the recommendations after it finishes scheduled business next Tuesday and again on December 17 if a further meeting is necessary.

One interesting disclosure about the report came from committee chairman, Vice-President B. C. Matthews, who said it was the committee's feeling that there could well be adjustments made concerning the location of various departments within a revised academic organization after the seven-college recommendation was approved. Tentative target date for implementation of the revised academic organization is July 1st, 1970.

Dr. Matthews noted that the report called for the establishment of a vice-president's advisory committee on plant and animal protection and suggested that this body might be the one to decide where various specialties belong.

The proposal to take the departments of botany, zoology, microbiology and apiculture out of OAC and place them within the framework of a new college of biological science has to date drawn criticism from a number of campus agriculturalists, particularly members of the botany department.

The botany department feels strongly that its unique affiliation with agriculture would be weakened by this move and will probably be advancing substantial reasons for keeping the specialty within the OAC framework.

The division of graduate studies and research into separate units, as proposed by the Committee was another area of the report which caused some discussion.

Graduate student senator Len Lillie questioned whether this might lead to a situation where graduate students might conceivably find themselves caught between conflicting personalities if the heads of the two units didn't agree.

Dr. Matthews replied that he personally didn't foresee such a problem. He pointed out that the bulk of the university's research was conducted by faculty members and not graduate students and that the committee's main aim in suggesting the two offices be split was to stress the importance of research on the campus.

Members of the school of physical education, in a brief read by Prof. Ross Walker, suggested that the committee recommend formation of an advisory committee to study the role of the human health sciences on the campus.

The Physical Education brief suggested that certain courses such as human anatomy and physiology should perhaps be taught within the framework of a college of biological sciences rather than at OVC.

The suggestion that there was a definite distinction between animal health sciences and human health sciences was refuted by OVC Dean Dennis Howell who maintained it would be a "retrograde step" to separate the two areas. Dean Howell added that OVC would be making a report to Senate within a year on its expanding role in the health sciences.

The library committee's report to Senate on the book budget allocations for the current fiscal year also provoked some comment. Chief Librarian Lachlan MacRae tried to explain reasons for an apparent large expenditure last year by the humanities division of Wellington College by pointing out that there was a difference between the amount of funds committed for book purchases and the amount actually spent when the books arrived.

Despite the explanation, however, representatives of the political studies and sociology departments which fall into the social discipline area, registered their opposition to the amount allocated the humanities division by voting against the budget.

During the report, President Winegard, who is library committee chairman, said the 1969-70 total of \$549,000 had been reduced from \$600,000 as part of the overall financial restrictions this year.

Motions Passed

The report from the Board of Undergraduate Studies outlining a schedule of studies for 1970-71 in the B.Sc.(Eng.), B.H.Sc., B.A., and B.Sc.(P.E.).

Students in engineering must obtain at least 140-credits of which 97½ are designated. The balance of credits are selected from general areas of study — life, earth, agricultural sciences or additional engineering and humanities and social sciences.

Major changes in Schedule of Studies in Family and Consumer Studies were: a modification of requirements for choice of general education electives; a deletion of sequence requirements for electives in the Family Studies major and the Early Childhood Education major; reduction of course load from 6 to 5 courses in semester 4 of the majors in Early Childhood Education and Consumer Studies.

- Change in registration date for the Spring Semester 1970 from Saturday May 2nd to Monday, May 4th;
- Appointment of P. A Wright to replace J. B. Britney on the B.Sc.(Agr.) program committee.
- The report from the Library committee presenting a formula to determine that book purchases should reflect disciplines rather than Colleges. The formula involves two parameters, (a) the full-time student equivalent (FSE) and (b) the relative spending experience of the previous year.

The Budget for 1969-70 by discipline area is:

Discipline Area	1969-70 Allocation
Agricultural Science	18,312.20
Biological Science	30,259.32
Household Science	9,572.86
Humanities	85,726.33
Physical Science	40,160.54
Social Science	55,391.23
Veterinary Science	13,159.52
Total	\$252,582.00

In addition, \$2,988 has been allocated for inter-disciplinary areas, \$126,280 for the Chief Librarian and \$167,150 for serials. This brings the total library book budget to \$549,000.

 * ARCHITECTURAL CONSERVANCY *
 * presents *
 * YOSEPH DRENTERS *
 * speaking on *
 * "The History of Rockwood Academy" *
 * Wed. Dec. 10 8 p.m. *
 * at Rockwood Academy *
 * (Hwy. 7, just south of Rockwood) *
 * *****

EXTENSION CHANGES

Please note the telephone extension number changes and additions in the Department of Agricultural Economics.

J. B. Britney	2771
S. H. Lane	2774
T. K. Warley	2760

Please mark these changes in your campus telephone book.

Deans support assistance to developing countries

The Annual Meeting of the Deans of Agriculture and Veterinary Medicine of Canada was held recently at the University of Guelph. Representatives from the eight Colleges of Agriculture and the three Veterinary Colleges attended. Prominent on the agenda were items dealing with student enrolment in science in agriculture and veterinary medicine programs, curriculum changes, aid to developing countries, the organization and responsibilities of colleges of agriculture, and relationships with the Research Branch of the Canada Department of Agriculture.

In September 1969 there were 2695 students enrolled in science programs in agriculture and 595 in veterinary medicine. In agriculture the numbers are similar to 1968. All places available for students electing to take veterinary medicine were filled.

The meeting requested that the survey on needs of veterinary medicine presently being conducted by the Health of Animals Branch be pressed on with all vigour and that the study include an assessment of desirable programs of education in veterinary medicine at the undergraduate and graduate levels and of the needs for research. The Deans expressed readiness to be represented at the World Conference on Agriculture to be held in Denmark in 1970.

Curriculum studies and changes in agricultural engineering were reported from British Columbia, Manitoba and Ontario. A study in depth of the academic program at the Ontario Veterinary College has been initiated. Interest in changing the name of faculties and colleges of agriculture to describe more appropriately their functions was supported by the meeting.

The Deans reviewed the assistance programs available from the Research Branch of the Canada Department of Agriculture and expressed the hope that, as additional grant funds became available, a system of awarding "block" grants to institutions, be considered.

Co-operation and assistance programs already established with developing countries were reviewed. The Deans met with the personnel of the Canadian International Development Agency in Ottawa following the



Shown during the meeting of Deans from left: Dean F. McHardy, University of Alberta; Dean D. Howell, OVC; Dean N. R. Richards, OAC; Professor G. M. Jenkinson, Assistant to Dean Richards, and Dean E. Jacques, St. Hyacinthe.



Also attending the meeting from left: Dr. J. C. Woodward, Director of Research, CDA; Associate Dean W. Tossell, OAC; Dean D. L. T. Smith, Saskatchewan; Dean L. H. Shebeski, Manitoba; and Dean George Dion, Macdonald College.

Guelph meeting. Colleges of Agriculture recognize a responsibility and are anxious to participate in programs in developing countries. The degree of participation will be proportional to the availability and suitability of resource personnel to assist with such programs. At the present time a surplus of suitability prepared professional resource personnel does not exist. The Deans agreed that it

is essential that the need for assistance be recognized and personnel be shared with developing countries.

Further meetings are planned with the Canadian International Development Agency to develop suitable patterns of operation.

The 1970 meeting of Deans of Agriculture and Veterinary Medicine will be held at the University of Manitoba.

GRYPHONS FINISH SECOND IN TOURNEY, ACADIA DEFENDS TITLE

The University of Acadia won the Waterloo Tip-off Tournament on the weekend, defeating the University of Guelph 78 - 59 in the Championship final. The Gryphons won their opening game 82 - 78 over St. Marys as Mark Walton hooped 21 points. It was simply a case of Guelph outhustling their opponents who had a decided height advantage. John McKendry added 17 points for the winners.

In the Championship semi-final, the Gryphons defeated Laurentian 77 - 71 as Mark Walton scored 23 points and hauled in 15 rebounds. Again it was a case of hustle at the right time. The Gryphons lost Fred Promoli with a sprained ankle and his replacement, Wild Phillips came up with a good effort.

The Championship final was an exciting contest with the Gryphons playing a strong

first half and at one time holding a 12 point lead. The Acadia team hit a hot streak in the second half with brilliant outside shooting sweeping them to victory. Walton again led the Gryphons with 18 points and Leigh Hammond added 13. Following the final game, an all-star team was named with Mark Walton and Leigh Hammond gaining berths. The Gryphons next action is this weekend in Detroit against Detroit Tech.



K.C.F. Mills, President of the Textile Technical Federation of Canada presenting the Textile Science Award to Dr. H. R. Richards.

First textile science award won by scientist

The first recipient of the Canadian Textile Science Award is Dr. H. R. Richards, Consumer Studies. The award was presented to Dr. Richards at a special ceremony held recently in Montreal.

The award, made for an outstanding con-

tribution in textile science by a Canadian, is donated by the Textile Technical Federation of Canada, a corporate body comprising the eight Canadian textile associations. Although on the books for many years, this is the first time the award has been given

Support for Bill 194 by OVC

Dean D. G. Howell of Ontario Veterinary College recently appeared before a special Committee of the Ontario Legislature in support of the government's controversial Bill 194 — an Act Respecting the Care and Provision of Animals for Research.

Dean Howell said, in a speech before the special Committee studying the bill, that its provisions are beneficial. The Bill will ensure that veterinary teaching and research can continue, it will allow only animals of which society has no further need to be used, and it will prevent the theft of pets, he said.

The University of Guelph's Ontario Veterinary College plays an important role in veterinary science, he noted. It is the only veterinary college in Ontario and is the oldest such existing college in the Americas, being over 100 years old.

The college has a responsibility to promote the animal industries in Ontario, to provide good veterinary personnel, and to continue the expansion of medical research in which it is engaging. To meet such responsibilities, said Dean Howell, animals must be available for teaching and research. Farm animals, primates, dogs, cats, and the lower orders of animals are all required.

The college, he said, places a high value

on animal life but recognizes a greater responsibility to improve the lot of both human and animal life.

The opponents of the bill are against researching with animals which at some stage have been classified as pets, presumably because their association with humans has made them more sensitive and intelligent, he said. However the unwanted stray dogs and cats that have been turned away by their owners have not benefited from human company. Such animals often lead miserable existences because their owners won't take them in to be painlessly destroyed.

In conclusion, Dean Howell stated that he supported Bill 194 for the following reasons:

- (1) It will ensure that medical and veterinary teaching and research can continue to meet the needs of society.
- (2) It will ensure that only those animals for which society has declared no further need are used for research and teaching purposes.
- (3) It will efficiently prevent the stealing of pets — a practice which causes considerable grief and anguish to so many people.

Dean H. S. Armstrong also appeared before the committee. See next week's N/B.

Presidents' Committee Report

The Committee of Presidents of Universities of Ontario has requested a meeting with Ontario government representatives to discuss a recent government ruling which may reduce university autonomy.

The government has ruled that new university departments and new degree programs must be approved by the Committee on University Affairs, a body appointed by the government, before operating grants will be paid.

Previously the Committee of Presidents had understood that they were permitted to use regular operating grants for any legitimate purpose. Only supplementary grants appeared to require the approval of the Committee on University Affairs.

The Committee of Presidents dealt with the matter at its meeting November 14 and decided to ask for a meeting with the Minister of University Affairs.

In another matter, the Committee of Presidents plans to discuss restructuring itself so that each university is represented by three voting delegates. At present each university is represented by its president and an academic colleague who does not vote. It has been proposed that a third delegate be added. He would be chosen by each university according to whatever means it considered best, and could be a student.

The Committee endorsed also a proposal that the Association of Universities and Colleges of Canada set up a national office to exchange information on television and other new means of learning. At present the Ontario Universities' Television Council, an affiliate of the committee, maintains a small office for such exchange. Should the national office be set up, the television council would phase the office out and work with the national body.

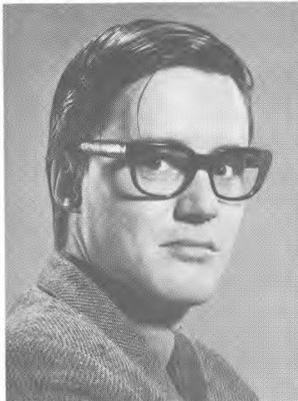
The committee also discussed forming a central data bank for its member universities, at the November 14 meeting. Questions of control of the data bank, access to its information, confidentiality of its material, and the type of data to be collected are to be discussed later.

LIBRARY NEWS

The McLaughlin Library has received from the Waterloo County Area Planning Board a complete set of the Waterloo-South Wellington Area Study Reports. This includes the five preliminary reports of the Waterloo-South Wellington Area Study and the large Economic Base Study prepared for the Board by Canadian Urban Economics Limited.

This series of Reports has been added to the collection of the Documentation Centre in the McLaughlin Library.

APPOINTMENTS



*Michael
Brookfield*

Mr. Michael Brookfield has recently joined the Faculty of the Department of Soil Science to teach Stratigraphy, Palaeontology and Introductory Geology.

Born in Carmarthen, South Wales, Mr. Brookfield spent his early childhood in Kenya, returning to Solcoates, South-west Scotland for his education.

After grammar school he studied at Edinburgh University for an Honours B.Sc. Degree in Geology and on graduation moved to Reading University, Berkshire, England. Mr. Brookfield has spent the last three years in the Sedimentology Research Laboratory at Reading studying and doing research for a Ph.D. degree in Sedimentary Geology, which he is now completing.

Mr. Brookfield is married and his wife also from the British Isles, is a teacher in Biology.

His probable research here will be on the Stratigraphy of the Guelph Formation and the Jurassic stratigraphy on the western coast of Canada and the Canadian Arctic.

The appointment of Charles A. Frank to the position of Assistant Registrar, Awards has been announced by University of Guelph President W. C. Winegard.

Mr. Frank comes to the University with a wealth of knowledge in business and finance, having worked for three years at York University as accountant, and six years as office manager of the G. Tamblin Company.

A Guelph native, Mr. Frank received his early education at Guelph Collegiate Institute and attended University of Toronto where he graduated with a Bachelor of Commerce degree, and later studied towards the Master of Commerce degree.

After serving in the Canadian Armed forces, Mr. Frank joined a firm of chartered accountants in Toronto and a few years later received his C.A. degree.

"This is the first time I have worked in a Registrar's Office," says Mr. Frank. "I came to the University of Guelph because I wanted to work in the university community with and among students."

"Our department provides a service to the students, and it is my hope that we can do our utmost to help the students as



*Charles A.
Frank*

much as we can within the means available to us."

Some 50 per cent of University of Guelph students apply for assistance under the student loans and awards system and lack of space forced the Department's move from the Registrar's Office in the Library to new quarters in the Physics Annex.

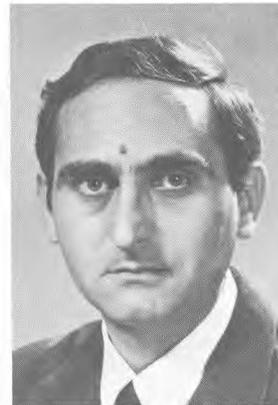
Miss Thelma Thompson has joined the faculty of the Department of Consumer Studies, Macdonald Institute for the Winter Semester. Prior to coming to the University of Guelph as visiting professor, Miss Thompson taught in the Textile-Clothing Department at the University of Maryland. In addition to university teaching, Miss Thompson has had experience as Clothing Specialist at the University of California and as Educational Director at the Wool Bureau in New York City. Miss Thompson holds an M.A. degree in Textiles, Clothing and Related Art from Michigan State University where she has also done advanced work in Sociology.

Dr. Peter Martini has been appointed to the Faculty of the Department of Soil Science, President Winegard has announced. Dr. Martini will teach Glacial Geology, Sedimentology and part of the General Geology course.

Born in Florin, Italy, Dr. Martini received his early education in Florence and then proceeded to the University of Florence for his undergraduate and graduate studies. In the course of his studies he worked on the geology of the Northern Apennines and obtained his doctor's degree in the summer of 1961.

In the spring of 1962 he emigrated to Canada and during the summer worked for Shell Canada Limited on the geology of North-east British Columbia in the Rocky Mountains.

Later that year Dr. Martini returned to his studies and undertook a Ph.D. program at McMaster University. Here he studied the Clastic Sedimentary rocks of the Medina Formation (Silurian age) exposed along the Niagara Escarpment between Hamilton



*Peter
Martini*

Ontario and Rochester N.Y. On obtaining his Ph.D. degree in 1966 he returned to work for Shell Canada Limited in their oil exploration program which afforded him the opportunity to travel and work in some very remote parts of provinces of Quebec, New Brunswick, Western Newfoundland, Saskatchewan and Manitoba. In the summer of 1964 he also took part in a geological survey in the Arctic on the Islands of Devon, Melville and Cornwallis.

Dr. Martini is married and has two children, a son Anthony aged six and a daughter Lisa aged three.

He plans to continue research on the Silurian rock formation along the Niagara Escarpment and initiate a study on the Pleistocene glacial fluvial sediments of Southwestern Ontario.

Dean appointed to Hall of Fame Committee

At the annual meeting of the Canadian Agricultural Hall of Fame Association, Dean N. R. Richards was appointed a director and member of the Executive Committee.

Each year prominent Canadians who have made an outstanding contribution to Canadian agriculture are recognized by having their portraits hung in the Hall of Fame, at the Coliseum, Royal Agricultural Winter Fair Buildings, Toronto.

In 1969 the late Alex M. Stewart of Ailsa Craig was so recognized. John A. Stewart, a graduate of O.A.C. and a member of the Board of Governors of the University of Guelph, is a son of the late Mr. Stewart.

PHYSICAL EDUCATION CAFETERIA CLOSURES DURING EXAMINATIONS

The Physical Education Cafeteria will be needed for the Fall Semester Final Examinations.

The Cafeteria will close after lunch on Wednesday, December 10, 1969 and will re-open for lunch on Monday, January 5, 1970.

FACULTY ACTIVITIES

Professor C. B. Kelly, Botany and **Professor H. W. Goble**, Zoology, attended the 31st Annual New York State Insecticide and Fungicide Conference at Cornell University.

Robert E. Ankli, Economics, presented a paper on "Canadian-American Reciprocity 1854-1866" at the Area Studies and Economic History Workshop held at the University of Illinois.

Mrs. Hala Piekarski and **Miss M. D. Cameron** of the Library staff attended a workshop sponsored by the Institute of Professional Librarians of Ontario at Geneva Park. Speakers at the Workshop, entitled Focus on the Individual, were Dr. R. E. Sproule, Dr. J. J. Distefano, and Kenneth Loucks, all of the School of Business Administration, University of Western Ontario, London.

Dr. J. C. Sutton, Botany, attended a meeting of the North Central Region Committee (NCR-25) for corn and sorghum diseases at Ames, Iowa. Stalk rots and "new" leaf blights of corn were the main topics of discussion. Research personnel from universities in most of the northern corn belt states were present.

Dr. Allan Austin, **Professor Nancy Bailey**, **Mr. Les Monkman**, and **Dr. Elizabeth Waterston**, English, recently attended the two day conference of the Canadian Association for American Studies held at the University of Toronto.

Dr. J. Bruce, Philosophy, is currently showing a picnic hamper of concrete poetry at the University of Alberta, Edmonton.

Dr. D. J. Blackburn, Extension Education, was guest speaker on the topic of "Outdoor Recreation Research" at the annual meeting of the Recreation Directors Association of West-Central Ontario held in Hamilton.

Professor Norman Pearson, Chairman of the Centre for Resources Development addressed 100 Grade 13 geography students from all the high schools in Norfolk County on the topic "Involving People in Planning." The meeting was held in the Norfolk County building in Simcoe. In the evening he addressed a citizens' meeting on the subject "Regional Planning and Resources Development in Haldmond-Norfolk." Both meetings were sponsored by the Municipal Affairs Study Group of the University Women's Club of Norfolk County.

Professor George Bedell, Director of the School of Hotel and Food Administration, participated as a faculty member in the Middle Management Seminar sponsored by

the National Restaurant Association at Louisville, Kentucky, and also in the seminar on Increasing Productivity sponsored by the Canadian Restaurant Association at Banff, Alberta, for owners and managers of food service establishments.

Dr. V. J. Matthews, Classics, is the coach of the University Cross-Country Team, which recently won the Canadian Intercollegiate Athletic Union Championship at Montreal, having already triumphed in the OQAA Championship at Kingston. Grant McLaren, 7th semester student, was individual winner of both races.

Dr. R. Glenn Brown, Animal Science, presented lectures in Laboratory Animal Nutrition at the University of Toronto. The course was sponsored by the University of Toronto.

At its annual meeting on November 1, C.S.O.S.T. (Canadian Service for Overseas Students and Trainees) elected **Dr. James Shute**, Department of Extension Education to the Board of Directors. **Mr. D. H. Amichand**, International Student Advisor, is also a member of the C.S.O.S.T. Board. At the November meeting near Quebec City it was decided to change the name of C.S.O.S.T. to the Bureau for International Education.

Professor George Bedell, Director of the School of Hotel and Food Administration participated in the 12th Annual Short Course of the Ryerson Polytechnical Institute, Department of Hotel, Resort and Restaurant Administration, held November 17th and 18th at the Westbury Hotel, Toronto. This is an Executive Development Program for Management Personnel in the Hospitality Field.

Dr. L. V. Edgington and **K. L. Khew**, Botany recently presented evidence that the fungitoxic spectrum of the three benzimidazole fungicides (benomyl, thiabendazole, and furidazol) are remarkably similar. The fungitoxic properties of these compounds to selected members of all five classes of fungi were compared. Dr. Edgington was reporting to the North East Division of the American Phytopathological Society, which met at Concord, New Hampshire.

Miss J. Bartels and **Dr. B. H. MacNeill**, Botany recently reported on the toxicity of benomyl, thiabendazole, and furidazole to several selected fungicide resistant mutants. By comparing the toxicities to the various mutants, they were able to conclude that benomyl and thiabendazole must have common modes of action. It was apparent that the mode of action of furidazole must be at least partial similar, as well. Miss Bartels was reporting on this research at the meetings of the North East Division of the North American Phytopathological Society at Concord, New Hampshire.

Dr. C. M. Switzer, Botany, recently attended the Annual Meeting of the Atlantic Provinces Golf Superintendents Association at Moncton, N.B. Dr. Switzer spoke to the group on "Weed Control in Turf."

Professor Norman Pearson, Centre for Resources Development, addressed the Fall Meeting of the Central Ontario Regional Development Council on the subject "Regional Planning and Regional Government" and later Professor Pearson spoke to the Youth Club of Timothy Eaton Memorial Church, Toronto, on the subject "The Mid-Canada Development Corridor."

Dr. J. J. Mangalam, Sociology and Anthropology, presented to the faculty and graduate students of the Sir George Williams University a research paper entitled Urban Adjustment of Rural Migrants. The paper was based on a research that he and his colleagues, Dr. James S. Brown of the University of Kentucky and Dr. Harry K. Schwanzweller of the University of West Virginia, have completed on the migration pattern of rural Kentuckians to urban-industrial Ohio.

Professor Norman Pearson, Chairman of the Centre for Resources Development, addressed the Guelph Branch of the Engineering Institute of Canada on the subject of "The Mid-Canada Development Corridor."

Mrs. E. B. Nielsen and **Dr. H. R. Richards** Consumer Studies, were recently on CKCO-TV, explaining some of their work on evaluation of fabric flammability. The Canadian Hazardous Products Act became law in June, 1969, and interest in fabric flammability, and particularly the means of evaluating it, has increased. In 1968 the Canadian Government Specifications Board formed the Special Committee on Consumer Flammability Problems to offer technical advice to the Government. This committee has undertaken an interlaboratory trial to determine the relative merits of three laboratory fabric flammability test methods. These are a standard U.S., a standard British and a modified Canadian test method developed at Macdonald Institute. Five laboratories took part and, after the first phase of the program, the Committee has decided to carry out further work on the Canadian method with a view to incorporating it as a standard Canadian Test Method. In the T.V. program, Mrs. Nielsen and Dr. Richards demonstrated the three evaluation procedures and burned specimens using the relevant instruments.

Dr. I. R. Evans, Botany, recently reported evidence which indicates that with bean yellow mosaic virus, the infectious unit transmitted by aphids may differ from the infectious unit in mechanical transmissions. Dr. Evans was reporting to the North East Division of the American Phytopathological Society on research he conducted at University of Florida, Gainesville.

Professor R. G. Marshall presented a paper on Agricultural Prospects and Problems in the 1970's to the Annual Meeting of the Ontario Hatcheries Association in Toronto.

Mr. W. J. Morre, Internal Auditor, received second-highest standing in the 4th and 5th year subjects of the five year Registered Industrial Accountant program of the Society of Industrial Accountants of Canada. Mr. Moore received a silver medal.

Mr. S. H. Singleton, School of Agricultural Engineering, attended the Building Science Seminar at the National Research Council in Ottawa. The seminar was on the use of new building materials.

Professor P. A. Wright, Professor R. G. Marshall and Professor H. B. Huff attended the Canadian Agricultural Outlook Conference at Ottawa. Professor Marshall and Professor Huff presented papers on the Outlook for Beef Cattle and Wheat, respectively.

PUBLICATIONS

Chloride and Ionic Chlorides with Benzoyl Peroxide. J. Am. Chem. Soc. 91, 6096-6102, 1969.

P. Pirandello: The Condition of Man, an essay by Dr. Gianni Bartocci has been accepted for publication by Question, London, England.

A. J. Musgrave and E. B. French, Zoology. Potential Control of Ectoparasites of Vertebrates by Systemic Treatment of Blood with Mixtures Containing Antibiotics. Can. Ent. 101:757-759 (1969).

D. Odegard, Philosophy, "Locke and the Unreality of Relations," Theoria, XXXV (1969), 147-52.

Norman Pearson, "The Historical Significance of the Niagara Escarpment" Wentworth Bygones No. 8. 1969. pp. 39-46. The Head-Of-The-Lake Historical Society, Hamilton, Ontario.

G. Karl, Single pion photoproduction in the quark model - Nuclear Physics B13, 303-319 (1969) in collaboration with L.A. Copley (Oxford) and E. Obryk, (Krakow).

Dr. N. J. Bunce (Chemistry) and D. D. Tanner, Benzoyl Hypochlorite, an Intermediate in the Reaction of Hydrogen Chlorides With Benzoyl Peroxide. J. Am. Chem. Soc. 91, 6096-6102, 1969.

ASTHMA - from page one.

as the normal child.

This phase will be followed by eight weeks of carefully prescribed and controlled dosages of exercise. A post-exercise test, duplicating that above, will indicate individual changes.

"These children are capable of considerably more than we had expected," Professor Walker said part-way through the initial phase. "Their desire, too, for physical exercise is as strong or stronger than healthy children. During the actual study periods, they are hyperactive which appears to be the result of previous inhibition of natural inherent desires for activity."

All tests are performed with regard to the safety of the children. All patients must have their doctor's permission. The first day they are brought to the laboratory, their parents may be present. The children are oriented to the apparatus to allay any fears on the part of the parents and to reduce the emotional effects on the subjects.

When the tests actually begin, each subject remains supine for at least twenty minutes to achieve a stable resting metabolic rate. The child is monitored, telemetrically until this stable rate is obtained.

The subject walks to the treadmill and the apparatus is connected. The exercise phase of the test begins with the treadmill horizontal and the speed set between 2.4 and 3.4 miles per hour (dependent upon the size and length of stride of the child) a moderate walking speed, not overly taxing on level ground.

The motor-driven treadmill is increased

in slope to simulate hill climbing until the heart rate of the subject reaches a specified sub-maximal cut-off point.

The exercise ceases. The treadmill is returned to zero per cent grade and the subject remains standing for a six minute recovery phase during which more data is collected.

Main problem of the study is to determine, "Did the patient improve?"

The progress of each patient will be recorded for five years, with the patient returning every two months for a re-test.

The entire project was born when local physicians began to ask the question, "Is exercise helpful for alleviating asthma?" This study will attempt to answer this question as well as producing more information on the problem of asthmatic children. If beneficial results come out of the study, doctors will have a method of prescribing exact dosages of activity for each type of asthmatic sufferer.

Cooperating with Professor Walker on this study are noted pulmonary researchers, Dr. Micheal Newhouse and Doctor Norman Jones of Hamilton. They will apply further tests to these children in their labs to determine degrees of lung obstruction and the effects of Professor Walker's exercise program on this obstruction

Professor Walker plans to extend this work to cover all age groups. Major source of funds for the project is the Christmas TB Seal campaign. University of Guelph students received their seals on campus this week, with the proceeds of the student campaign going to this research at Guelph.

PERSONALS

- . Wanted 1 bedroom furnished apt. Close to University. 824-9004.
- . For Sale - Wringer type washing machine. Ext. 3872.
- . For Sale - 6 acres homesite. 20 minutes from University. 856-4413.
- . For Sale - 1961 Mercedes-Benz Model 220. \$250. Needs motor repair. Call Ext. 2602-2688. or 824-9844.
- . For Rent - Garage close to University. Small car or boat. 822-9038.
- . For Rent - 3 bedroom house with garage, country location. \$160. month including heat. Available Dec. 21. G. Fridd, Ext. 3281.
- . For Sale - Girl's white figure skates. Size 10, \$5. Summer tires, 7:00 x 13 - C.T.C. Safety "99" \$15. pr. Ext. 3667 or 821-1353.
- . Babysitting mother will babysit in own home near University. Daily. Call mornings - 824-5993.
- . Wanted - Garage to store small camper trailer and equipment. Ext. 2118.
- . For Sale - 3 pr. skis and ski rack. \$12 to \$25. Dr. Ollerhead, Ext. 3771 or 824-8034.
- . For Rent - 2 bedroom apt. available Jan. 1st, or Feb. 1st. \$145. includes utilities. 821-7817 after 5 p.m.
- . For Sale - 1963 Chev 2-door. good condition. Dr. Dunsmore Ext. 2715 or 824-9585.

- . For Sale - 21" Philco Portable TV. Also some second hand furniture. Dr. Dunsmore. Ext. 2715 or 824-9585.
- . Lost - top coat at Col. John McCrae Hall, Elizabeth St. Phone Cal Hutchins, Ext. 2420 or 824-5865. (Wrong coat taken).
- . For Sale '67 Rambler American 440. Low mileage. Ext. 3532. 821-3683 evenings.

SAFE DRIVING

Safe Driving Week, which started Monday and extends through to next Sunday, is a time when motorists are asked to strive to establish the habits of careful driving.

More and more drivers and vehicles are taking places on the roads. As the roads become more crowded, accidents, that take lives, cause serious injuries and destroy property, become more common.

All accidents may be blamed on the condition of the car, the condition of the road or the condition of the driver. It is the duty of the motorist to be as skilled and cautious as he can when at the wheel, and as careful as he can in appraising his vehicle and road conditions.

NEXT WEEK AT GUELPH

"HOUR OF SONG"

THURSDAY, DECEMBER 4

- Public Lecture** HUGO VON HOFMANNSTHAL: A LITERARY CHARACTER STUDY, by Dr. Brian Coghlan, visiting professor at the University of Waterloo. 2 p.m. Room 223, Arts.
- Festival** EDWARD JOHNSON MUSIC FOUNDATION FESTIVAL ANNOUNCEMENT MEETING. Music Room 107, Arts. 8:30 p.m. Czech Quartet will entertain. All welcome.

FRIDAY, DECEMBER 5

- Art** CANADIAN CARTOON AND CARICATURE — 1849-1967. Exhibition opens in the Exhibition corridor, Arts building. Continues until December 28.
- Music** HOUR OF SONG, by the Master Class of Vocal Literature conducted by Nicholas Goldschmidt. 8:30 p.m. Music Room 107, Arts. (see story in this issue of News Bulletin).
- Special TV Film** A LOOK AT UNIVERSITIES by Metropolitan Educational Television Association. Channel 9 at 9:30 a.m. The University of Guelph along with other central Ontario universities will be featured on a special ½ hour program Friday morning. The film is especially geared to high school students and will be shown in schools.

SATURDAY, DECEMBER 6

- Evaluation** HALTON-PEEL BEEF PRODUCERS EVALUATION DAY. An. Sc. building

SUNDAY, DECEMBER 7

- Worship** R.C. FOLK MASSES. 10:30 a.m. War Memorial Lounge. 7 p.m. Newman Centre. ANGLICAN SERVICE. 10:30 a.m. Room 138, Arts.

MONDAY, DECEMBER 8

- Seminar** VIRUSES OF FUNGI, by Prof. F. T. Last, Director, Forestry Research Institute, Edinburgh, Scotland, Room 250, Botany. 1:30 p.m.
- Seminar** BREEDING OF PLANTS FOR WINTER HARDINESS. Dr. G. M. Weaver. Harrow Research Stn. Room 236, Hort. Sc. 4 p.m.
- Seminar** THE MOSSBAUER STUDIES OF TIN COMPOUNDS, by Dr. R. C. Poller, Dept. of Chemistry, Queen Elizabeth College, London, England. Room 260, Chem. Micro. 4:10 p.m.

TUESDAY, DECEMBER 9

- Senate Seminar** UNIVERSITY OF GUELPH SENATE Room 116, Crop Sc. 8 p.m.
EFFECT OF PAPER MULCHES ON DEVELOPMENT OF VEGETABLES. J. Vandenberg. Room 36 Hort. Sc. 4 p.m.

WEDNESDAY, DECEMBER 10

- Classes Discussion** CONCLUDE .
GRADUATE STUDIES ON THIS CAMPUS. A panel discussion moderated by Dr. H.S. Armstrong, Dean of Graduate Studies & Research with Dr. Jean Warren, Visiting Professor at Macdonald Institute from Cornell; Dr. T. J. Hullah, Associate Dean, OVC; Dr. J. R. Stevens, Physics; and Dr. W. W. Straka, History; Room 105, Phys. Sc. 3 p.m.

THURSDAY, DECEMBER 11

- Examinations** COMMENCE
- Lecture** FUNCTION AND CAUSATION OF SIGNALLING AMONG ANIMALS, by Prof. N. Tinbergen, Oxford University. Room G-49, Biology. 3:30 p.m. (see story in this issue of News Bulletin).

INTERLIBRARY LOAN SERVICE SUSPENDED FOR HOLIDAYS

Because of the increased burden on the Post Office during the holiday season, and in order to ensure the safety of interlibrary loans, the interlibrary loan service will be partially suspended until the new year.

From December 10th, 1969 to January 2nd, 1970 Interlibrary loan requests will only be forwarded to the National Science Library, and the fourteen Ontario University Libraries which provide the Inter University Transit Service.

POSITIONS VACANT AT UNIVERSITY OF CALGARY

A number of important posts at the University of Calgary have become vacant or have newly been created.

They include: Vice-President (Academic), Vice-President (Capital Resources); Dean, Faculty of Environmental Design; Dean, Faculty of Education; and Information Officer.

The University of Calgary is a rapidly growing institution with over 8,000 students, 800 staff, and an average annual staff increase of 25 per cent.

On Friday evening, December 5th, at 8:30 p.m., in the Music Room 107, Arts building, Mr. Nicholas Goldschmidt will present the soloists of the Master Class in Vocal Literature in a program of arias, duets and ensembles by several composers, including Gluck, Mozart, Verdi, Massenet and Richard Strauss. This demonstration gives the twelve students involved an opportunity to perform before an audience, a valuable experience in their workshop training. The audience, in turn, will experience opera styles from Gluck to Strauss (1750-1900).

The performers are: Anneliesa Barry, Bernadette Devorski, Lois Frick, Michael Gerula, John Hollywood, Keith Langstaff, Gordon McDonald, Mary Power, Daniel Shalanko, Elizabeth Simmons, Barbara Wolfond and Nagisa Yamashiro.

They will be accompanied on the piano by Mrs. Rosemary Hamilton.

ZOOLOGY AND PSYCHOLOGY Guest Lecturer

Dr. N. Tinbergen of Oxford University will lecture on Function and Causation of Signalling Among Animals. His talk will be illustrated by film. The lecture will be held on Thursday, December 11, at 3:30 p.m. in Room G-49 of the Biology building.

Dr. Tinbergen has been Professor of Animal Behaviour at Oxford University since 1949. He, along with Konrad Lorenz, is considered to be a founder of the modern science of ethology. Professor Tinbergen is the author of several books on animal behaviour. He has always stressed the role of field studies in behaviour. His important work has influenced not only biologists but psychologists, anthropologists and sociologists.

DEPARTMENT OF BOTANY Guest Lecturer

Professor F. T. Last, Ph.D., D.Sc., who is currently a visiting professor at Pennsylvania State University will present a lecture entitled "Viruses of Fungi" on December 8, at 1:30 p.m. in Room 250, Botany. On completion of his sabbatical leave, Professor Last will become Director of the Forestry Research Institute, in Edinburgh, Scotland.

All those interested, are encouraged to attend.

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