

NEWS BULLETIN

UNIVERSITY OF GUELPH

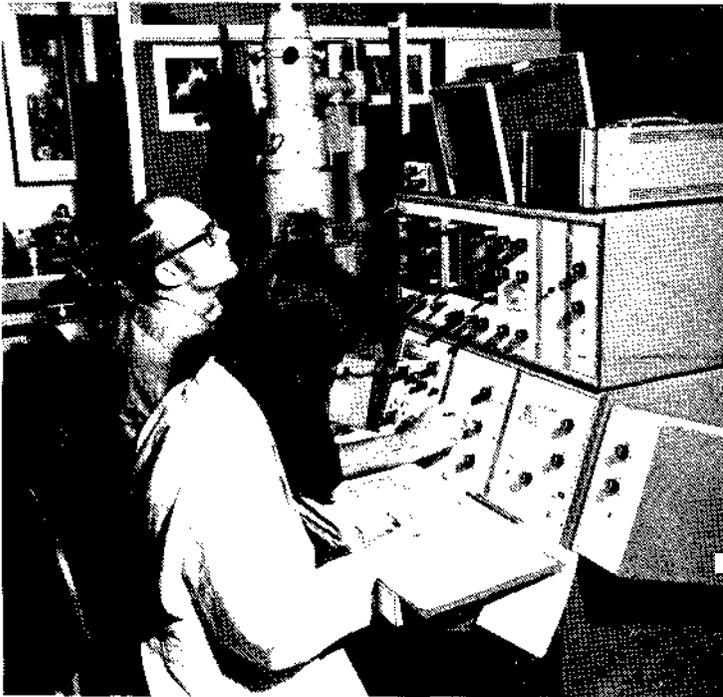
Vol. 16 — No. 20

May, 1972



Dr. Margaret McCready was guest of honor at a luncheon to welcome her during her first visit to the campus since returning from Ghana. Dr. McCready has been one of the Guelph team working at the University of Ghana since her retirement as Dean of the College of Family and Consumer Studies. Shown during the luncheon, from left: Dr. Janet Wardlaw, Dr. McCready and Mrs. Nabilla Williams who is a candidate for a masters degree in Family Studies, and who was a member of the Home Science Department at the University of Ghana with Dr. McCready.

Scanning electron microscope is superhuman eye



Dr. Larry Wilding, left, and technician Gareth Mellors use scanning electron microscope.

Plain old dirt — You may have trod in it or swept it out of your hallway a thousand times. But, for those who have eyes to see, plain old dirt holds clues to those mysteries of nature that are the object of the scientist's quest. For instance, most soil contains a large quantity of microscopic particles, called biogenic opal particles: they are opal (silicate) particles formed within grass, trees and other types of plants. Opal, of course, is a type of semi-precious stone — although the particles formed in plants are far too minute, as well as too numerous, to be prized by the world.

When plants decompose these particles remain, sometimes for thousands of years — and provide valuable clues to the plant life that once thrived in given areas. To investigate these particles there is, not the human eye alone, but also the ultra-refined eye of the scanning electron microscope that magnifies

surfaces more than 30,000 times. And studying them is the project of Dr. Larry Wilding, a visiting professor in the University's Department of Land Resource Science.

These opal particles may fill an entire cell and assume its shape, says Dr. Wilding, who is on leave from January to August from Ohio State University. Or they may form a partial cell outline. Thus their shape may permit scientists to identify the plants that produced them. "These particles also contain carbon, so that, through radio-carbon dating, we can determine how long ago they were formed," says Dr. Wilding.

The superhuman eye of the scanning electron microscope is of great value for showing surface texture. However it has one drawback — it does not penetrate particles and reveal their inner structure. Thus opal particles could not be identified and differentiated from

other minerals, such as oxalates, quartz and gypsum, that are also synthesized in plants... They could not, that is, until Dr. H. D. Geissinger of the University's Department of Biomedical Sciences found ways to adapt the scanning electron microscope to ordinary microscope slides.

With this development, particles which had been identified under the conventional light microscope can readily be transferred for examination to the electron microscope. This transfer gives the project a unique quality; it enables researchers to obtain considerable additional information from both microscopes. (The scanning electron microscope used in the project was on loan from the Japan Electron Optic Laboratory Co., a firm which manufactures scientific equipment. It was on campus from July to April and has now been returned to the company.)

The investigation of opal particles may seem endless when one considers the number of different species of plants that can form them. Nevertheless, distinctive types are appearing: "We can differentiate opal formed in trees from that formed in grasses," says Dr. Wilding. "But so far we can't tell apart the opal from differing species of trees and grasses — although, in some cases at least, the outlook for this is favourable."

It is curious to imagine the soil under our feet and the dirt in our hallways as teeming with microscopic specks of opal. Yet these particles are there. They are the hidden gems that, through the painstaking labour of the scientist and the superhuman eye of the scanning electron microscope, reveal mysteries — in what, to our uninspired eyes, is plain old dirt!

Council of Ontario Universities comments on Wright report

The heads of 12 Ontario universities presented the official Council of Ontario Universities response to the Draft Report of the Committee on Post Secondary Education in Ontario to a hearing in Toronto last week. For one of the last and most important hearing of the 13-member Commission, 12 members were on hand. This contrasts to the hearing at which the University of Guelph presented its brief, when only four commissioners were present.

At a press conference following the hearing COU chairman Dr. D.C. Williams, president of the University of Western Ontario, stated that the COU brief received a good reception. He pointed out that COU strongly objects to the setting up of a new coordinating board. Instead, he said, an improved COU and an improved Committee on University Affairs could perform the same function. These two bodies, together with the individual university Boards of Governors who represent a cross section of the community, would ensure public accountability.

A summary of the COU brief is as follows;

The Response concentrates on three critical issues: educational philosophy, provincial structures, and financing (both of institutions and students). While supporting many of the principles outlined in the Draft Report, the Council hopes the Commission will substantially alter many of its recommendations.

The Draft Report says the COU makes no mention of the nature or quality of the post secondary educational experience which is to be made more accessible. Accessibility should be related to ability and public policy should be aimed at making post secondary education available to all persons capable of benefiting from it.

COU feels the Draft Report fails to recognize the special role of the university in society. This special role is incompatible with the increased degree of state control of post secondary education foreseen and encouraged by the Draft Report. COU proposals for revised terms of reference for the Committee on University Affairs and COU would increase accountability without the proposed increase in governmental control.

While the Draft Report appears to favour diversity among institutions, the Council feels that many of the recommendations would effectively discourage diversity and the maintenance of academic excellence.

The Draft Report notes the arbitrariness of educational credentials, and the abuse of such credentials by business and the professions for certification functions. COU does not believe that the alternatives proposed in the Draft Report would result in an improved situation. They are most likely to increase external control of the curricula of higher education.

COU feels that the Draft Report overstates the practicality and benefit of part-time study. While part-time and "adult" education should be developed more fully, it would be a great mistake to reduce the attention paid to the full-time mode.

In proposing the creation of the Coordinating Board for Universities, the Draft Report has, in effect, placed complete control of all aspects of university life in the hands of the Government of Ontario. This would destroy the freedoms essential to the ability of the universities to serve Ontario society well. COU has presented an alternative which would involve a clear recognition of the role of collective decision-making by the universities and define more effectively the powers and responsibilities of CUA. The Government must still, however, make decisions on financial resources and participate in broad decisions

of public policy. COU does not quarrel with the principles of accountability and participation by Government. It does object to the proposed structure outlined in the Draft Report.

It is unfortunate that the Draft Report offers no financial analysis of its proposals. The COU Response questions the validity of the proposed separation of funding for research and instruction, and the proposals for financing post secondary students. The Council believes this section of the Draft Report to be too much based on inconclusive analysis and arbitrary hypotheses. The proposed changes in tuition fees and student aid would undoubtedly decrease accessibility to higher education in Ontario.

Copies of the COU response are being distributed. Extra copies are available through the Information Office.



Dr. J. C. Rennie, Extension Coordinator for the Department of Animal and Poultry Science, right, meets visiting Cornell students at front entrance of Animal Science/Nutrition building.

U.S. students visit

Students from the Animal Science Department at Cornell University visited the campus recently. Accompanied by four faculty members, the 20 students studied the various programs in Animal and Poultry Science and viewed the different teaching and research facilities.

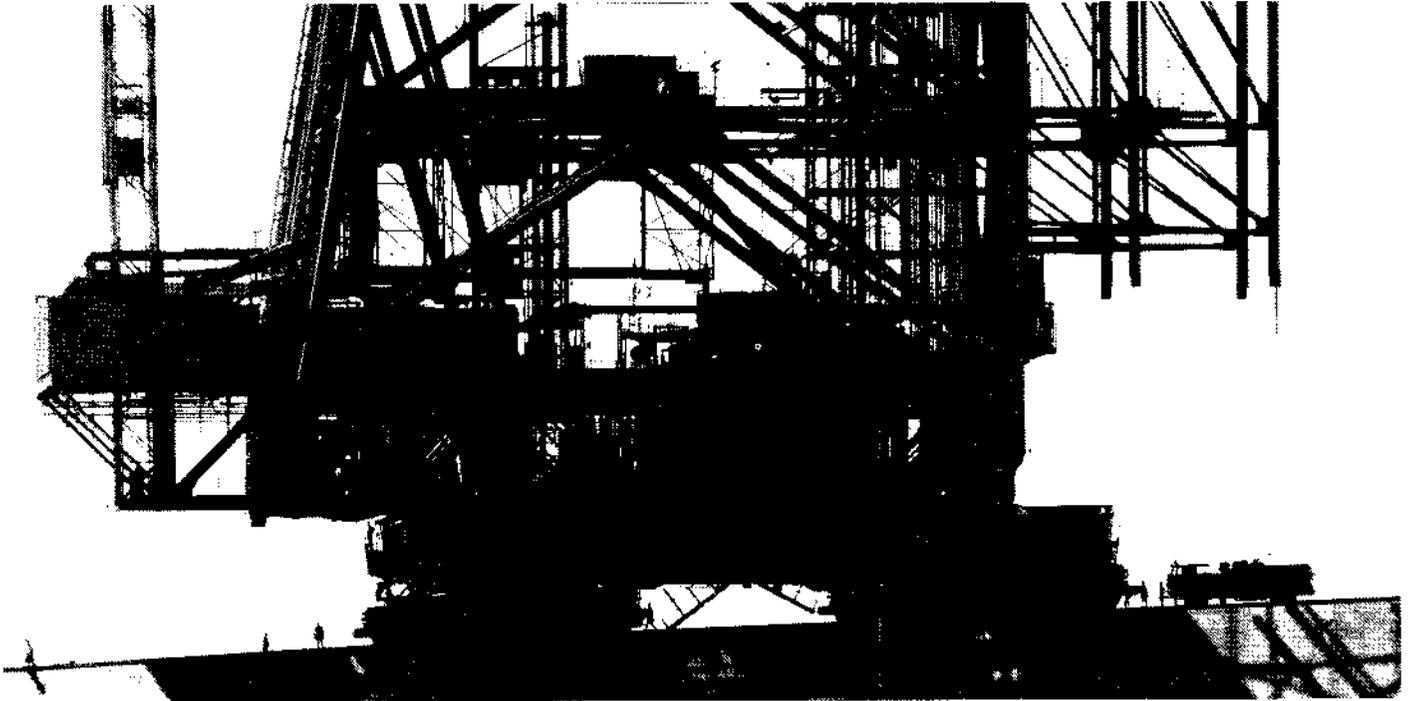
Dr. W. D. Morrison, Chairman of the Department of Animal and Poultry Science, welcomed the group to the campus and presented briefly the aims and objectives of the Department relative to teaching, research and extension.

Dr. R. Bratton brings the Animal Science

students to Guelph each year as part of his course in Animal Breeding and Reproduction.

Accompanying Dr. Bratton this year were Dr. R. Everett, Dr. C. Coppock and Dr. L. Larsen. In addition to viewing the facilities on campus they visited the Arkell and Elora Research Stations.

Dr. G. J. King, Dr. W. Gillis, Dr. D. G. Grieve, Dr. M. G. Freeman and Dr. J. W. Wilton were involved in the program and presented the results of the various research programs and in addition gave the students an introduction to the Canadian livestock industry.



The size of the service structure above, is apparent by the size of the men and fire truck visible on the ramp.

Michael Taylor at Apollo lift-off

Michael M. Taylor, who teaches design in the Department of Consumer Studies, was a member of the press corps at the recent lift-off of the Apollo 16.

Stationed in the area near the pad made available to the press, Mr. Taylor was able to photograph the space craft with its umbilical tower and the service structure being moved into place ready for fueling. The transporter, when moving the craft or the service structure, travels at a maximum speed of one mile per hour.

"This is remarkable," says Mr. Taylor, "when one considers that the space craft and the umbilical tower weight 5,715 metric tons unfueled, and the service structure weights 4,763 metric tons."

The service structure provides 360 degrees access to the space craft at the pad, and, as can be seen in the accompanying picture, the transporter itself has the ability to keep the service structure parallel at all times, even negotiating a 5 per cent gradient.

Mr. Taylor reports that the sun was setting as the fueling of the 363 feet high space craft began. When loaded with fuel it weights just under 3,000 metric tons.

The thrust for lift-off builds to cover 9,000,000 pounds before the first stage engines cut off. This occurs two minutes and 40 seconds from lift-off. The craft is 30 miles above the earth at this time when the second stage engines take over.

Mr. Taylor terms the experience of being present for the lift-off "incredible," and the space craft, "the giant of all giants."

Job opportunities

Systems Programmer, Institute of Computer Sciences, Software Group. Salary commensurate with qualifications and experience.

Secondary School Liaison Officer, Office of the Registrar. Salary commensurate with qualifications and experience.

Secretary to the Chairman, Department of Botany and Genetics. Salary range \$85.41 - \$120.58.

Typist, for clerical duties, Alumni Affairs. Salary range \$65.25 - \$81.08.

Technical Operator, Audio Visual Services, Television Studio. Salary range \$85.35 - \$124.71.

Typist, for clerical duties, Housekeeping Department, Auxiliary Operations. Salary range \$75.30 - \$107.70.

Stenographer, Department of Residences. Salary range \$75.30 - \$107.70.

Clerk, Accounting Department. Salary range \$65.25 - \$78.54.

Custodian I, Auxiliary Operations, Housekeeping Department. Salary range \$2.30 - \$2.55.

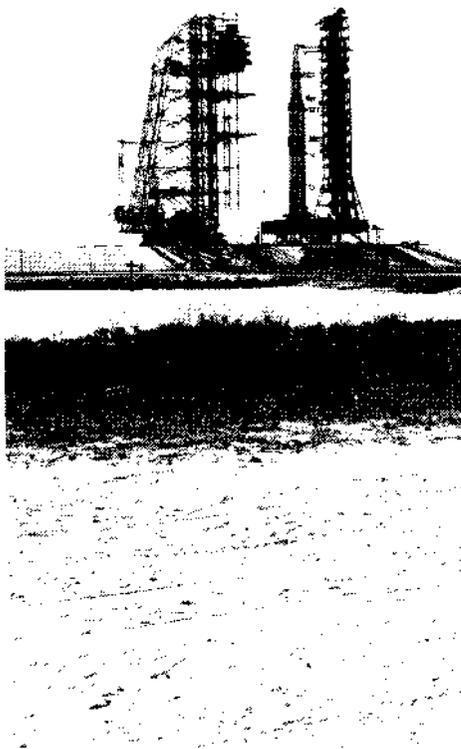
Custodian III, Auxiliary Operations, Housekeeping Department. Salary range \$2.75 - \$3.05.

Custodian III, Auxiliary Operations, Housekeeping Department. Temporary position. Salary range \$2.75 - \$3.05.

Trades Helper I, Engineering Services, Maintenance Department. Salary range: \$2.59 - \$2.87.

For further information on the above positions contact the employment office, Extension 3058 or 3059. *New Listings as of May 5, 1972*

An article and pictures that appeared in the September 23, 1971, *News Bulletin* won admission, for Michael Taylor to the Press Corps section for the Apollo 16 launching. Mr. Taylor took pictures of the Apollo 15 launching from over 6 miles away in the visitors section.



The service structure is seen being moved away from the space craft by the transporter. It travels down a 5 per cent gradient but keeps the service structure parallel to the space craft at all times.

FACULTY ACTIVITIES

Professor Glenys Stow, English, recently presented a lecture to the Wellington County School Librarians' Association entitled, *Fact versus fancy: a historical approach to children's literature*.

Dr. R. W. Gatehouse, accompanied by Graduate Student **W. Cox**, **Psychology**, attended the Acoustical Society of America Meeting held at Buffalo and presented a paper, *Human monaural localization of noise*.

Dr. Leslie Henderson and Dr. Richard Lonetto, **Psychology**, attended the Eastern Psychological Association meeting held at Boston and presented papers.

Professor **W. Stanford Reid**, **History**, recently attended two conferences in North Carolina where he presented papers. He read a paper to the North Carolina Presbyterian Historical Society in Raleigh on "John Knox - after 400 years," and he also spoke to the Conference on Celtic Studies at Campbell College on Knox's views on political revolution. He attended the meetings of the American Society of Church History of which he is an officer at Durham, North Carolina.

Professor H. D. Ayers, **Engineering**, was chairman of the session on Bank and Stream Erosion at the Erosion Conference sponsored by the Conservation Council of Ontario which was held in Toronto.

Dr. Gianni Bartocci, **Languages**, was one of the main speakers at a seminar on Italian heritage, which was held at St. Lawrence Hall, Toronto.

Dr. Keith Slater, **Consumer Studies**, was elected President of the Institute of Textile Science for the current year at the annual meeting held in Toronto. The Institute is a learned society of textile scientists and, although based in Canada, has members in Europe, Australia and the United States. **Dr. Slater** has been a director of the Institute for four years, including two as Treasurer and one as Vice-President.

Professor **C. R. Ellis**, **Environmental Biology**, attended the 27th Annual North Central Branch Entomological Society of America meetings at Kansas City, Missouri on March 29-30.

Dr. Gianni Bartocci, **Languages**, attended the Ontario modern language teachers' association conference held in Toronto recently.

Professor G. D. Bedell, **Professor J. A. LaDu**, **Professor A. H. Marston**, and **Dr. Elizabeth Upton**, **School of Hotel and Food Administration**, attended the four-day Foodservice and Hospitality Show in Toronto, where they operated an information booth to acquaint

visitors to the Show with the program of the School. They also participated in the Annual Conventions of the Canadian Restaurant Association and the Ontario Hotel and Motel Association, which were held concurrently. Professor Bedell was speaker at the Luncheon of the Ontario Hotel and Motel Association at which third year students of the School were guests.

Dr. W. R. Fawcett and M. D. Mackey, a graduate student, **Chemistry**, recently attended a conference on the Electrical Double Layer sponsored by the Society for Electrochemistry in Bristol, England where they presented a paper entitled, *The structure of the mercury/ethylene carbonate interface*.

PUBLICATIONS

Barker, I. K., and Orvar Remmler, 1972. The endogenous development of *Eimeria leucharti* in ponies. *J. Parasit.* **58**: pp. 112-122. (Pathology)

Waterston, Elizabeth, 1972. Galt, Scott and Cooper: *Frontiers of Realism*. *J. of Can. Fiction*, **1**, pp. 60-65. (English)

de Boer, J., and R. H. Stinson, 1972. Rationalization and Optimization of Hemodialysis Procedure III. *Medical and Biological Engineering* **10**: pp. 35-42. (Physics)

Waterston, Elizabeth, 1971. Sir Walter Scott and early Canadian Novels. *Scottish Tradition*, Vol. **1**, No. **2**. pp: 14-18. (English)

Davis H., 1972. Conditioned suppression of an avoidance response by a stimulus paired with food. *J. Experimental Analysis of Behavior*. **17**, pp. 277-285. (Psychology)

Stinson, R. H., and J. de Boer, 1972. Pump less and more efficient artificial organs: A preliminary report on the introduction of the percolator effect. Presented at the 7th Congress of the European Society for Experimental Surgery in Amsterdam. (Physics)

Cho, H. J., and D. G. Ingram, 1972. Mechanisms of prozone formation in agglutination reaction. *Can. Jour. of Microbiology*. **18**: 449-456. (Veterinary Microbiology & Immunology)

Slater, K., 1971. Apparatus for measuring and controlling the moisture content in textiles. *Can. Pat.* 888, 840. (Consumer Studies)

Riekels, J. W., 1972. The influence of nitrogen on the growth and maturity of onions grown on organic soil. *J. Amer. Soc. Hort. Sci.* **97**(1): 37-41. (Horticultural Science)

Lankester, M. W., and V. J. Crichton, 1972. *Skrjabinogylus lutrae* n. sp. (Nematoda: Metastrongyloidea) from otter (*Lutra canadensis*). *Can. J. Zool.* **50**: 337-340. (Zoology)

Anderson, R. C., and A. K. Prestwood, 1972. *Eudromoxyura alonbyrdi* n.g. n.sp. (Nematoda: Oxyuroidea) from crested tinamou (*Eudromia elegans*). *Can. J. Zool.* **50**: 297-300. (Zoology)

Ko, Ronald C., 1972. Biology of *Ixodes cookei* Packard (Ixodidae) of groundhogs (*Marmota monax* Erxleben). *Can. J. Zool.* **50**: 433-436. (Zoology)

Ko, Ronald C., 1972. The transmission of *Ackertia marmotae* Webster, 1967 (Nematoda: Onchocercidae) of groundhogs (*Marmota monax*) by *Ixodes cookei*. *Can. J. Zool.* **50**: 437-450. (Zoology)

Macleod, G. K. and A. S. Wood, 1972. Influence of amount and degree of saturation of dietary fat on yield and quality of milk. *J. Dairy Sci.* **55**: 439. (Animal & Poultry Science)

Macleod, G. K., A. S. Wood and Y. T. Yao, 1972. Influence of dietary fat on rumen fatty acids, plasma lipid and milk fat composition in the cow. *J. Dairy Sci.* **55**: 446. (Animal and Poultry Science)

GRANTS

Professor R. C. Anderson, Professor M. Beverley-Burton and Professor K. Myers, **Zoology**, have received an \$11,000 grant from The Canadian National Sportsmen's Show to investigate Ecological factors in the transmission and effects of parasitic diseases of big game and water fowl in Ontario.

Dr. K. Myers, **Chairman, Zoology**, has received a research grant in the amount of \$4,944 to employ three summer students to assist with drug abuse research. The grant is being made available by the Non-Medical Use of Drugs Directorate, Department of National Health and Welfare, Ottawa.

Professor **W. Stanford Reid**, **History**, has just received word that the Secretary of State's office has granted \$5,000, under its ethnic histories project, for the financing of a book of which he is the editor, entitled *The Scottish tradition in Canada*. Some dozen scholars across the country are participating in this work. From the University of Guelph, besides the editor, Professor **D. C. Masters**, **History**; Professor **Elizabeth Waterston**, **English**; Professor **J. A. McIntyre** and Professor **K. J. Duncan**, **Sociology**, are each contributing a chapter. It is hoped that the book will be ready for publication by the end of the year.

Guelph students to spend summer in Ghana



Dr. Jean Sabry, Chairman of the College of Family and Consumer Studies International Program Committee, left, chats with Cathy Armstrong, Judy Leon, who will spend the summer in Ghana, and Clara Obiri, of Ghana, who is studying at the University of Guelph.

Two students from the College of Family and Consumer Studies will spend July and August at the University of Ghana. The students, who have just completed their sixth semester, will be studying under the direction of Dr. Lila Engberg who recently succeeded Dr. Margaret McCready as Chairman of the Department of Home Science at the University of Ghana.

Cathy Armstrong and Judy Leon were chosen from among the many applicants by the College's International Program Committee headed by Dr. Jean Sabry.

Funded by Mrs. R. A. Stewart, for many

years a generous supporter of the College, the two month visit was suggested by student members of the International Program Committee.

The girls had the opportunity to discuss the University of Ghana with Ghanaian students at a recent luncheon held in honor of Dr. Margaret McCready who was visiting the campus. Attending the luncheon was Clara Obiri, a graduate of the Bachelor of Household Science program at the University of Ghana. Miss Obiri is now a candidate for a Master of Science in Family Studies.

Lord O'Neill speaks at Guelph

Lord Terence O'Neill, former Prime Minister of Northern Ireland will be on campus Monday, May 15 to speak on the problems of Northern Ireland.

Lord O'Neill will make only two appearances in Canada during his speaking tour in North America. After his talk in Guelph he will travel west to speak at the University of British Columbia.

Ulster at the Crossroads is his latest book and it details his role in the struggle for religious equality in Northern Ireland.

Lord O'Neill's topic for his Guelph address is What's Really Happening in Northern Ireland Today. With family roots that go back to the establishment of Belfast as a

community, his talk should be well researched.

Tickets at \$1 to hear Lord O'Neill in War Memorial Hall are available at the Central Box Office, Extension 3940. The visit is sponsored by the College of Arts Student Federation.

The lecture begins at 8 p.m.

The News Bulletin is published every Thursday by the University of Guelph's Department of Information. News items must reach the editor, Mrs. Betty Keeling, at the Information office, Room 361, McLaughlin Library (Ext. 3863) by noon Friday. Articles and news items may be quoted or reproduced in full.

Faculty invited to

Green Thumb Day

Faculty and their families are welcome to join members of the Alumni on Saturday, May 13 to take part in Green Thumb Day.

The morning program includes sessions on lawns, high-rise gardening, small fruit culture and flower arranging. These will be held in the Crop Science building.

A beer and burger lunch will be available at The Wharf in the Physical Education building.

The afternoon program includes a wagon ride to the Arboretum and the tree planting ceremony.

A dinner will be held in the evening in Macdonald Hall dining room followed by Las Vegas Night in Lambton Hall.

There is a registration fee of \$5 per person for the day's program including the lunch. The charge for the dinner is \$5 and this includes the Las Vegas Night. Visitors are welcome to attend a part or all of the day's events. For further information call Alumni House at Extension 2122.



Residents in the Veterinary Students' Frat House organized a collection of clothing to send to residents in rural areas of Northern Ontario. The Veterinary students, prior to leaving for home for the summer holidays, donated good used clothing for the project. Dave Horton, OVC '73, one of the organizers, is shown right with Ian Hoover, a graduate student, as they pack the donations.

Undergraduate enrolment down for spring

Total undergraduate enrolment for the spring semester is down 6% from last year. The greatest decrease is 25% in freshmen enrolment. More part-time students have registered for study this year with an increase of 4%.

The figures to date are: full-time 1,778

(freshmen 420), part-time 330, for a total of 2,108. Last year's figures are: full-time 1,940 (freshmen 563), part-time 316, for a total of 2,256.

To date the number of graduate students is exactly 10 less than last year's number. While students are still registering, 611 are now enrolled.

Course counsellors from each College were part of the registration line to assist freshmen with their course selection. This innovation proved a great help to the students who previously had to go from department to department filling out their time table.



Whiter whites, same day service at laundry

What should a university be? ... That is a perennial question for those of us associated, either temporarily or permanently, with the institution. In quest of an answer we may look for images for the university — for mode models which express its ideal nature. Such an image is found in the campus' own Department of Laundry and Linen Services. For the laundry department enrolls materials from all over the campus, it checks and registers them, it processes them into a cleaner state, and it graduates them to take useful roles in the world. And the essence of the laundry process is the transformation from a stained and corrupted condition, to a state of refinement and purity. So it is with the academic institution, which should transform us into that higher form toward which we aspire. Therefore, let us tour the laundry for insights into the ideal nature of the university.

The University's laundry department, like the contemporary educational institute, is a sizable establishment. From its building near Trent Lane, it services every department at the University of Guelph. It cleans lab coats for laboratories, coveralls for research stations, towels and sports uniforms for the School of Physical Education, and linen for the residences. In short, it processes some 70,000 pounds of material a month. For those of us who savour statistics, this means 180,000 gallons of "softened water" a month, 750 pounds of soap, 300 pounds of alkali, and 125 pounds of neutralizing agent. The department also prepares surgical bandages for the Ontario Veterinary College, plus whatever special cloth materials are needed for the University's research projects.

The processing of laundry, of course, goes on at a much more rapid pace than university education. Materials are picked up Mondays and returned Wednesdays or picked up Wednesdays and returned Fridays — except for the Ontario Veterinary College where they are processed for the following day, or the food services departments and the School of Physical Education, which receive same-day service. The laundering process begins with registration and the sorting of materials into differing fabrics and colour shades.

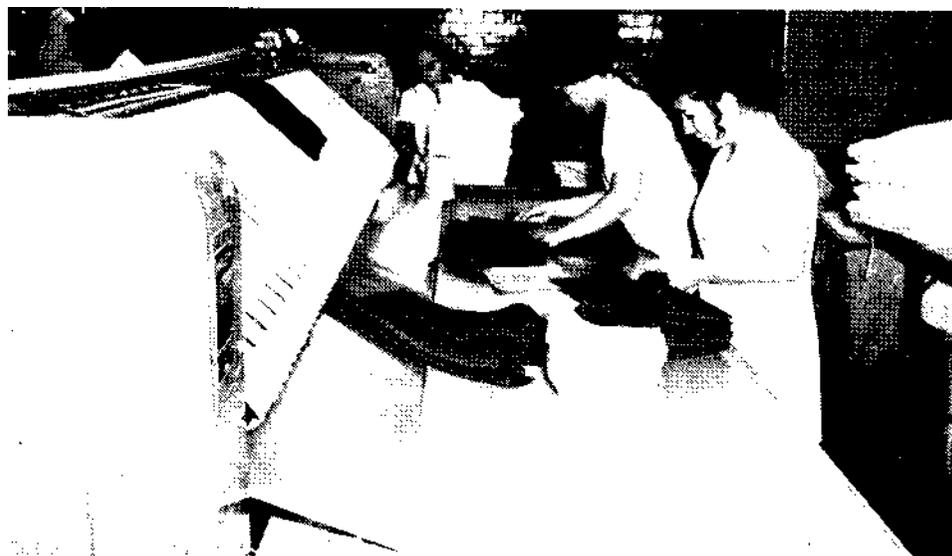
Occasionally at this stage, non-acceptable materials are found: watches, wallets, sets of keys are discovered, and set aside to be returned to their rightful place in the world. Washing is done, usually in large machines that accept up to 400 pounds of clothing each. Then there is drying in tumble dryers, and pressing, either on large flatwork ironers, made up essentially of a series of rollers, or on utility presses, that automatically open and close, like so many great mouths.

The dean of the laundry department is Joe Hersey, whose tenure at Guelph goes back almost four decades. He is, in terms of service, one of the university's oldest employees. If you open up the now-yellowed pages of the 1949 O.A.C. Review, you will find an article on his department, located in what is now the Grounds building, and symbolized, the article says, by a "man pushing a cart piled with multi-coloured sacks." Today the department uses a truck with a hydraulic lift, and empFoy's a staff that, in peak periods, reaches 22 people.

The academic aspect of the department is enhanced by the week-long laundry school,

which Mr. Hersey hosts under the auspices of the Ontario Institutional Laundry and Linen Managers. The school, the only one in Canada, teaches theory and practical work each year, to some 25 persons from hospitals and institutions across the country.

So there it is ... The quietly-working, almost-unnoticed department which is, like so many others, essential to the functioning of the university as a whole. And in addition, the department suggests an image for that ideal university that each of us pictures in his mind. Therefore, when you next ponder the university and its mission to the world, try visualizing it in terms of the swirling suds and steaming waters of a laundry. And remember the Biblical transfiguration with its overtones of celestial purification: wherein garments became "shining, exceeding white as snow; so as no fuller on earth could white them" (Mark 9:3). Such images perhaps reveal an ultimate role for the university — to be the ideal laundry that transforms the dirty linen of existence into the pure and refined garb of destiny.



Anne Digravio, right, Carol Clarkson, centre, and Lina Damaren of the University's Laundry and Linen Services Department fold linen that has been automatically pressed by the department's flatwork ironer. The department, which, with the exception of dry cleaning, does all the campus' laundry work, processes some 70,000 pounds of material each month.

Impact schedule

The organizers of Impact are extending a special welcome to faculty and staff to take advantage of the spring semester program. The price per person for the series is \$5, with a special rate of \$7.50 for married couples. General admission for each film is \$1.50.

This semester there are no concerts on the program. This, of course, is one reason the price of the season card has been reduced. Impact cards are now on sale at the Central Box Office in the Arts building.

The program follows:

SATURDAY, MAY 6

Take the Money and Run, and Maltese Falcon

THURSDAY, MAY 18

Tora Tora Tora, and Cartoon

SUNDAY, MAY 28

There Was A Crooked Man, and Casablanca

SUNDAY, JUNE 4

The Reincarnate and Cartoon

SATURDAY, JUNE 10

Love Story.

SUNDAY, JUNE 11

Love Story

THURSDAY, JUNE 22

The Lion in Winter, and Cartoon

SUNDAY, JUNE 25

Magic Christian, and Big Sleep

SUNDAY, JULY 2

Song of Norway, and Cartoon

THURSDAY, JULY 6

My Fair Lady, and Cartoon

SUNDAY, JULY 9

Lord of the Flies, and Treasure of Sierra Madre

SUNDAY, JULY 16

Joe, The Graduate, and Cartoon

SUNDAY, JULY 23

When Dinosaurs Ruled the Earth, and Cartoon

College head

Ralph Campbell, former head of the Department of Agricultural Economics at the University of Guelph, has been appointed Principal of Scarborough College. His appointment becomes effective on July 1 when he succeeds A. F. Wynne Plumtre.

Professor Campbell has more recently been professor of Economics at the University of Toronto, and for the past two years he has been acting as economic adviser to the Government of Kenya.

Scarborough College is a constituent college of the University of Toronto, 21 miles east of the main downtown campus. Its nearly 2,000 students are in Arts and Science.

Thursday noon series

The opening concert of the Thursday Noon Hour Series will be held on Thursday, May 18. The Scarborough Chamber Orchestra under the direction of Donald Coakley will be the guest artists.

The Scarborough Chamber Orchestra began its second season last fall. Applications

for membership have been so numerous that the organization was able to expand its ranks, and at this point is moving in the direction of a full symphony orchestra. Membership is made up of students from various schools in Scarborough. Each fall the students audition for the organization and those who are accepted then come together to rehearse and prepare repertoire for the orchestra's concert series which begins after Christmas.

Donald Coakley, conductor of the Scarborough Orchestra, is presently Assistant Supervisor of Instrumental Music, Scarborough Board of Education.

The concert on May 18 in Macdonald Hall Cafeteria, 12:10 to 12:45 and 1:10 to 1:45, represents the fourth in the orchestra's current series. The 55 players consist of nine first violins, nine second violins, nine violas, triple winds and percussion. They will be featuring works by Bach, Purcell, Josquin des Pres, Johann Pezel, Aaron Copland, Giovanni Gabrieli and Keith Bissell.

Festival gets grant

The Guelph Spring Festival, which is held traditionally during the first two weeks in May, has received a grant of \$8,500 for this year's Festival from The Canada Council.

Heritage Ontario

Canadian content in education will be among the several topics under discussion at this year's Heritage Ontario Congress.

Premier William Davis announces that 1,000 participants are expected to attend the workshop.

The Heritage Ontario Congress, which is being convened June 2, 3 and 4 to discuss issues underlying the multi-cultural nature of Ontario society, will be held at the Skyline Hotel in Toronto.

Mr. Davis announces that there will be open registration as well as invited participation from representative organizations and communities. He extends an invitation to members of the public to take part. Registration will be \$10. Further information is available from the office of the Premier in Toronto.

Gets NRC scholarship

M. I. Campbell, a Microbiology major, was one of the 1972 recipients of the National Research Council 1967 Science Scholarships.

These scholarships, which are NRC's prestige awards for graduate students, mark the 50th anniversary of the Council's scholarships program and Canada's Centennial. First awarded in 1967, they are designed to assist outstanding young Canadians to obtain doctorate degrees in science and engineering.

The recipients receive an annual grant of \$5,500 for a three-year period, with scholar-

ships being renewable for a fourth year if necessary.

Mr. Campbell, who graduates this spring, is undecided about his further studies.

Career Planning emphasized

Plans for reorganization of the Department of Career Planning and Placement have been announced by Provost, R. P. Gilmor. Effective July 1, 1972, the reorganized department will reflect greater emphasis on career planning while retaining the traditional function of assisting students to obtain full-time and part-time employment. In making the announcement, the Provost said, "It is evident that the growth of the student population and the increasing complexity of the job market require more careful planning on the student's part in making a specific vocational choice."

Mr. Ian White will continue to have special responsibilities for placement services.

Free Film feature

Humphrey Bogart, Peter Ustinov and Aldo Ray star as three escaped convicts from Devil's Island in *We're No Angels*, this week's Free Film Theatre feature, starting at 8 p.m., Monday night (May 15) in Physical Sciences, building, Room 105. The next two chapters from that stirring cliffhanger, *Captain Marvel*, will also be shown. Remember — its FREE!

Parking notice

Due to renovations on Johnston Hall, part of Lot P-51 (located to the rear of Johnston Hall), will be closed during the summer.

Visitor

Dr. A. Catherine Prestwood, Southeastern Cooperative Wildlife Disease Study, University of Georgia, spent two weeks in the Department of Zoology studying parasites of deer.

RESEARCH GRANT CALL

(for further information see *Departmental Chairmen*)

The University of Queensland is offering Post-doctoral Research Fellowships for 1973 in Humanities, Social Sciences, Biological Sciences, Physical Sciences and Medical Sciences. The closing date for application is August 1, 1972.

The Department of Environmental Biology has called for grant proposals for research that has potential for reducing costs of accelerated waste treatment programs in relation to pollution control on the Lower Great Lakes. Closing date May 31.

NEXT WEEK AT GUELPH

THURSDAY, MAY 11

Panel - WHERE IS OPERA GOING? Moderator - Lou Appelbaum. Panelists - Mayor Moore, Maurice Huisman, and Herman Geiger Torel. 12 noon, Music Room 107, Arts. All welcome.

Art - GERMAN EXPRESSIONIST PRINTS, from McMaster University. Continues on exhibit in the browsing area of the Library.

T.V. - SPOTLIGHT ON UNIVERSITY OF GUELPH. Cable 8 at 2 and 5:30 p.m.

FRIDAY, MAY 12

T.V. - SPOTLIGHT ON UNIVERSITY OF GUELPH. Cable 8 at 7p.m.

SATURDAY, MAY 13

Alumni - GREEN THUMB DAY. Registration at 10 a.m. in the Crop Science building. Continues all day and includes tree planting at the Arboretum. Contact the Alumni Office, Ext. 2207, for further information.

SUNDAY, MAY 14

Worship - ANGLICAN EUCHARIST. 9:30 a.m. 9th floor lounge, Arts.
Worship - R.C. MASS. 10:30 a.m. War Memorial Lounge.

MONDAY, MAY 15

Coloquium- MEASURES OF DIVERGENCE OF PROBABILITY DISTRIBUTIONS WITH AN APPLICATION TO A PROBELM OF S. KAKUTANI, by Dr. T. Nemetz, Carleton University. Room 535, Physical Sciences, 4 p.m.
Lecture- AN EXPERIMENT IN JUVENILE JUSTICE - THE ABOLITION OF THE LEGAL OFFENCE by Dr. Raymond Illsley, Department of Sociology, University of Aberdeen. 8:00 p.m. Music Room 107, Arts. All welcome.

Film - DEVIL'S ISLAND, starring Humphrey Bogart, Peter Ustinov and Aldo Ray. 8 p.m. Room 105, Physical Science. Sponsored by the Free Film Theatre. Admission free.

School - OMAF LIVESTOCK EXTENSION SPECIALISTS IN-SERVICE TRAINING program. Room 141, Animal Science/Nutrition. Contact. Dr. J. C. Rennie.

Lecture - LORD TERENCE O'NEILL, Former Prime Minister of Northern Ireland. 8 p.m. War Memorial Hall. Tickets at \$1 are available at the Central Box Office.

TUESDAY, MAY 16

Meeting - UNIVERSITY OF GUELPH SENATE. 8 p.m. Room 113, Physical Science.

Theatre - JOHN LOMARO, P.R. Officer for the National Arts Centre, will speak on the Centre. 2nd in the Learning for Living Series entitled Theatre in Ontario This Summer. Admission \$2.50 at the door. 8 p.m. Guelph Public Library.

WEDNESDAY, MAY 17

Worship - ANGLICAN EUCHARIST. 12 noon. 2nd floor lounge, Macdonald Hall.

Radio - ANALYSIS, news and comment from the University of Guelph. CJOY-FM. 106.1. 7 p.m.

THURSDAY, MAY 18

Conference - ENVIRONMENTAL PHYSIOLOGY OF DOMESTIC AND WILD UNGULATES IN THE TROPICS. Sponsored by the Centre for International Programs. Opens at 10 a.m. in Room 130, Biology building. For further information contact Professor H. R. Binns, Ext. 3256.

Music - SCARBOROUGH BOARD OF EDUCATION 55 PIECE ORCHESTRA. Macdonald Hall Cafeteria. 12:10 to 12:45 and 1:10 to 1:45 p.m. All welcome.

PERSONALS

FOR SALE

Ladies dresser with long adjustable mirror, 25" Admiral Console TV, Black and White, Ext. 2667 or 821-7555 after 6 p.m.; Trailer suitable for small car, Ext. 2502; '70 Alouette snowmobile, Ext. 3382; Siamese cate, 18 months old, Ext. 3382; '65 Rambler American, baby crib, chair & other baby needs, household items and some furniture, clothes (female size 10 to 14 and Male size 32-34), leaving country, 1 Hales Cres, 821-8743; 24" stove, 821-0267; '65 Volks, 821-4084; Siamese tortoise point kitten, 821-9086; Bridesmaid mauve crepe, Victoria Style, size 9, dress, 823-2869; Man's black suit, ladies clothes, size 10, and child's dresses and coat, size 6, 824-8620; Valuable print by George Stubbs, entitled, Mares at Grass, small pine & walnut table, Ext. 2552; Manual lawnmower, 821-8048; 2 twin bed frames & box springs, Ext. 3265; '69 Triumph GT 6 with overdrive, Ext. 8187; Norwegian Elkhound, male, 10 weeks old, papers, 856-9886; '65 Chevrolet Biscayne, 824-8423; Gendron 3 in 1 pram, child's sleeping bag, orlon pile snow suite, Ext. 2624; Beige coat & matching dress, size 33/34, Ext. 2152; Set of single bunk beds, new mattresses, 823-2275; '66 Admiral T.V., radio, stereo combination, 856-4540.

HOUSING

For Sale - 3 bedroom double split house, University Ave., Available June 30, Ext. 2624; For sale - 3 bedroom home on large lot, Callander Dr. area, immediate possession, Ext. 3245; For Rent - 3 bedroom apt., Ext. 3382; Wanted garage to rent,

821-9086; Wanted to rent for new fatuity member, July or August, Phone James McRae, care of Clive Southy, Department of Economics, Ext. 3948; For rent - 3 bedroom house, available June 1, 821-7222; Wanted to rent - bungalow or duplex, furnished, 2 or 3 bedrooms, for new faculty member, May 72 to August 72, Ext. 2162; For Sublet, 2 bedroom apt., furnished near University and park, July and August, 821-8046; For rent - Apt. overlooking Kortwright Waterfowl Park, available July 1, Ext. 3863; Wanted unfurnished one bedroom apt. or bed sitting room in older home, preferably with off street parking, 822-9961 before 6 and 824-4379 after 6; Wanted - one bedroom apt. preferably in older house near University, Ext. 3787; For sale - 3 bedroom spacious new house, split level, 821-7712; For rent - tent trailer, sleeps 4 - 6, May 1 to August

3, 822-2964; Available, room and board, 2 males or females, 822-2964; For rent, cottage on Berford Lake, Bruce Peninsula, August 12 - 26, 824-5865; For sublet, one bedroom unfurnished apt. June 1, outdoor heated pool, 822-5394; For rent - large double bed-sitting room for 2 male students for summer semester, Private kitchen and washroom facilities, 824-6073; For rent - 4 bedroom house near campus, August 72 to March 73. 822-0139.

MISCELLANEOUS

Would the person who found the birth certificate for Linda Farniloe of Detroit please phone 824-0836; Will do typing, reasonable rates, 823-2869; Wanted responsible girl to babysit mornings during summer montsh, Mrs. Hillson, 822-0547; Wanted Student babysitter 2 or 3 half days a week, 821-3595.

Postage-Paid-in-Cash At Third Class Rates Permit 721, Guelph, Ontario.



D. Nightingale,
243 Speedvale Ave. E.,
GUELPH, Ontario.