

Convocation October 5

Guelph to honor scholars



Prof. Nagel.



Prof. Reid.

The University of Guelph will honor two distinguished scholars for widely diverse contributions to learning during fall Convocation ceremonies Friday, October 5.

Professor Ernest Nagel, an eminent philosopher of science, will receive an honorary Doctor of Letters degree, while Professor W. Stanford Reid, recognized in the English-speaking world as a noted historian, will be made a Professor Emeritus of the University.

Prof. Nagel is a member of the National Academy of Sciences, the American Philosophical Society and a Corresponding Fellow of the British Academy. He has served as president of the American Philosophical Association, the Philosophy of Science Association and the Association for Symbolic Logic. Born in Czechoslovakia, he is a graduate of Columbia University and has spent his entire working life at his Alma Mater, receiving almost every honor that institution can bestow.

Prof. Reid, who was educated at McGill, Westminster Theological Seminary and the University of Pennsylvania, joined the faculty at McGill in 1941, and remained there until he became the first head of the Department of History at the University of Guelph in 1965. He also found time in Montreal to serve the Presbyterian Church as minister of one congregation and founding minister of another. Prof. Reid is the author of several books as well as many scholarly and popular articles. Much of his research has dealt with the social and economic history of the Scottish Reformation and the 16th century generally. His list of research grants includes those from the Social Science Research Council, the American Philosophical Society, the Nuf-

field Foundation, the Canada Council and the British Council.

At the University of Guelph, Prof. Reid guided the development of his fledgling department until it offered not only undergraduate but also M.A. and Ph.D. programs. He was a moving spirit in organizing the Scottish Studies Colloquium series annual learned meetings, and more recently the formation of a consortium on Reformation Studies involving the University of Waterloo.

Prof. Reid has been a member and officer of numerous historical societies in Canada, the United States and Britain, and has been for some years a Fellow of the Royal Historical Society.

Prof. Nagel will be honored at the Convocation ceremony which begins at 10 a.m. He will address Convocation. Prof. Reid will be honored at the afternoon ceremony beginning at 2:30 p.m. That ceremony will be addressed by Professor Terry Crowley of the Department of History. Guelph's Chancellor, The Honourable Pauline McGibbon, will preside at both ceremonies.

Robing-up for members of the Board of Governors, Deans and platform guests is in Room 132 of the Arts building. Faculty and graduating students will robe-up in the Red Lounge, also in the Arts building.

During the two Convocation ceremonies 300 graduands will receive Bachelor's degrees in various disciplines. In addition, 93 graduate students will receive advanced degrees. These include: 12 Ph.D.; 20 M.A.; 43 M.Sc.; 4 M.L.A.; and 14 Graduate Diplomas in Veterinary Medicine.

A tea will be held after each ceremony in Peter Clark Hall, level 0, University Centre. □

Fall enrolment is encouraging

Enrolment of full-time and part-time undergraduate students at Guelph for the 1979 fall semester is better than expected, University President D.F. Forster announced last week.

As of September 14, the last day of late registration, full and part-time undergraduate enrolment totalled 9,909 students, 559 or six per cent above the target of 9,350 and 249 or 2.6 per cent above the 9,660 total of last year. Full-time enrolment is 8,892 students, 192 above the target of 8,700 but 107 short of the 1978 total of 8,999.

The most encouraging statistics are found in the semester 1 full-time and part-time enrolment. Full-time freshmen account for 2,603 of the campus population this fall, 5.6 per cent or 139 more than the target of 2,464 and two per cent or 51 above the same figure for last fall. Part-time students make up 1,017 of the students on campus, 367 above the target of 650 and 356 above the actual figure of 661 last year. There are 102 full-time students and 286 part-time students in the General Studies program.

Full-time enrolment has increased in the B.A. Sc., B. Comm., D.V.M., B.Sc. (H.K.) and Associate Diploma programs.

The enrolment picture appears to be a little brighter in the B.A. program. Even though the total full-time enrolment for this fall is about 200 below a year ago, the majority of the full-time and part-time students in the General Studies program are taking courses in the College of Arts and the College of Social Science.

Graduate enrolment this semester is up by three per cent over last year; 771 students are taking advanced degrees compared with 748 last year. One hundred and thirty-three graduate students are studying on a part-time basis.

President Forster injected a note of caution as he announced the encouraging enrolment news at Senate September 18. These statistics are not the reporting figures for the Ministry; actual enrolment as of November 1 is the figure that counts for funding purposes. This semester the largest increase in enrolment is in the area of part-time studies,

REPORT from SENATE

Meeting of September 18, 1979.

University President D.F. Forster announced encouraging statistics on enrolment for the fall semester at the first meeting of the 1979-1980 session of Senate. He also praised the people who worked so hard to produce the pleasantly surprising results. (See "Fall Enrolment," page 1.)

The President said he was left with three major impressions following recent meetings with freshmen students — he realized the tremendous efforts carried out by the University liaison people with Registrar Arnold Holmes and the Assistant Vice-President, Academic, Professor Jim Stevens; that students are attracted to Guelph because of the quality of its programs and, students like the "quality of life" at Guelph, particularly the attractiveness of the campus.

Meeting with Premier Davis

The Premier of Ontario is "sympathetic" to universities, President Forster told Senate. He was commenting on the meeting held earlier this month between Premier William Davis, senior members of his cabinet, and presidents and board chairmen from the 15 universities of the province. (See "University Presidents Meet With Premier," News Bulletin, 79 09 13.)

President Forster said he was encouraged by the Premier's assurances that the type of education provided by universities will continue to be given priority by the government. The Premier is committed to maintaining accessibility to the universities and he made a very strong statement in support of the role of universities in providing a liberal education, said the President.

There was a great deal of discussion on whose responsibility it will be to rationalize and contract the university system. Both the Premier and Education Minister Dr. Bette Stephenson insisted that these problems are the responsibilities of the universities. The Premier rejected any form of a "University of Ontario." "Many university presidents do not feel that they can collectively carry out the job of planning the university system," said President Forster, adding that he feels that OCUA will have to become more involved in that area during the next decade. It appears, said the President, that OCUA does play a stronger role than many had perceived.

President Forster said the Premier "properly accused us of not being effective in stating our case to the public, and especially on how we are going to get ourselves through the period of low enrolment."

On another topic discussed, the role of universities in research, President Forster told Senate that he felt that the Premier was, understandably, not quite as well informed about what the universities are doing in contract research. The government's opinion is that

universities should keep in mind the government's industrial strategy for the province when making decisions. However, that strategy is not clear at this time, he said.

Although there was no funding announcement and no mention of a date when universities would know of funding details for the next fiscal year, the provincial treasurer injected a slight note of optimism, said the President. The universities were encouraged to seek funding from the private sector, but some board chairmen pointed out that both government and universities should not overestimate the funds available from that sector. And the government was reminded that the corporate sector still holds to the attitude, at least to some extent, that the government built the universities and they should, therefore, continue to fund them.

Tuition fees came under discussion and the President said that the Premier appeared to be reluctant to see any substantial fee increase. The government still has not made up its mind regarding the P.S. Ross report and there was no specific indication of when an announcement on tuition fee policy would be forthcoming.

Senators were asked to reflect on a message on the universities' concerns delivered at the Toronto meeting by J.H. Panabaker, chairman of McMaster University's board of governors. (See "Strong Statement," page 3.) A chart and several tables prepared by the Council of Ontario Universities research staff were also circulated to senators. One chart showed the worsening of the relative position of Ontario to the rest of Canada in terms of the grant per FTE student. Another table provided data on the support afforded universities contrasted with that afforded the CAATs, schools and hospitals. Over the period 1970-1971 to 1977-1978, the grant per student for universities, when expressed in 1977-1978 dollars, showed a 7 per cent decline while all other sectors showed an increase over the same period in their per unit grant. This increase was most marked in the schools with 39.6 per cent increase and the hospitals at 51.0 increase.

"Those of us who are able to speak for the universities should speak out as forcefully and as often as possible on the magnitude of the underfunding and its effects on universities," concluded the President.

Motion on Disinvestment

A motion that Senate censure the Board of Governors with respect to the lack of effective action taken on the issue of disinvestment in South Africa was not placed on Tuesday night's agenda. The motion was submitted to the Secretary of Senate Monday by student senator Michael Clarke. The executive committee of Senate met Tuesday and voted not to place it on the agenda. However, during the discussion of the Board's statement

on disinvestment in South Africa, a motion was approved requesting the President and Professor Carleton Gyles, one of Senate's representatives to the Board, to convey the sense of the discussion to the Board.

MOTIONS

Striking Committee

Senate received the report on College representatives on library and awards committees for 1979-1980 for information.

Senate approved membership changes to the Board of Undergraduate Studies, Committee on Student Petitions and Committee on University Planning for 1979-1980 and the Senate Committee to Study Liberal Education.

Board of Undergraduate Studies

Senate approved the list of graduands for the fall Convocation, 1979. (Two hundred and ninety-seven degrees will be conferred.)

Senate approved the membership of the program committees of the Board of Undergraduate Studies for the 1979-1980 Senate session.

Board of Graduate Studies

Senate approved the list of graduands for the fall Convocation, 1979. (Ninety-three graduate degrees will be conferred.)

Board of Studies for Undergraduate Diplomas

Senate approved the list of graduands for the fall Convocation, 1979. (Two diplomas will be conferred.)

Committee on Student Petitions

Senate received a report on petitions received by the Committee during the Senate session, 1978-1979, for information.

COU

Professor Carleton Gyles, Veterinary Microbiology and Immunology, gave a report of a special meeting of the Council of Ontario Universities held in Toronto August 27. The meeting dealt with a number of reports prepared for COU by the Ontario Council on Graduate Studies. □

THE THURSDAY NOON HOUR CONCERTS

will feature Scottish pianist Colin Kingsley Thursday, September 27. Dr. Kingsley is a senior lecturer in the music department, University of Edinburgh. He broadcasts regularly for BBC.

The 12:10 program will feature "Fantasia in C" by Haydn; Peter Racine Fricker's "Anniversary Op. 77, 1977" commissioned by Colin Kingsley and world premiered by him at the Cheltenham Festival in 1978, and Faure's "Nocturne No. 6 in D Flat, Op. 63."

Program II, commencing at 1:10 p.m., will include "Mazurka, No. 14 in E Flat" and "Etude in B Flat Minor, Op. 4" by Szymanowski; Chopin's "Fantaisie in F Minor, Op. 49" and "Waltz in A Flat, Op. 42"; Holts's "Nocturne and Toccata" and "Sonatina in Three Movements (1927)" by John Ireland.

Admission is free and everyone is welcome to attend.

Strong statement for universities' concerns

A feeling of malaise has descended on Ontario universities as a result of continuing financial stringency. J.H. Panabaker, chairman of the Board of Governors at McMaster University, stated in presenting a paper on behalf of universities at a recent meeting between executive heads and the Premier. The result is a pervasive sense that the universities will grow physically and intellectually weaker, less able to carry out their existing tasks and incapable of responding to the changing needs of society.

The period of crisis through which the institutions are now passing could result in leaner, stronger and more effective universities, he said, but there is a very real danger that these centres of higher education will be left so enfeebled that it will take at least a generation for recovery. The final outcome will rest on the decisions taken by the government, and to a lesser extent, by the governing bodies of the institutions.

Financial pressures have the effect of causing a decline in morale as well as conflicts within and between universities, he pointed out. There is a feeling in Ontario now that the government has lost interest in the welfare and excellence of its institutions, Mr. Panabaker said, drawing attention to the fact that this province now ranks eighth in Canada for university operating expenses provided by provincial governments. Support is now about \$1,000 per full-time equivalent student less than in the rest of the country.

The solution, however, does not lie with government alone, the McMaster official said. The universities must come to terms with a number of major problems, not least of them the public perception of the university education, particularly in the humanities and social sciences, as less valuable than it once was. They must also demonstrate the importance of their research activities to society.

An even more fundamental problem is the lack of agreed goals for the universities in the eighties. In the expansionist sixties, the universities provided "quality" and "accessibility" in response to objectives worked out with the government. Mr. Panabaker questioned whether accessibility today means the provision of a mediocre education to a large proportion of the population or a first-class education to a smaller group of potential leaders carefully chosen on the basis of academic ability.

Hard choices must be made, the McMaster board chairman said, if the universities are to live up to the objectives more recently set down by the Ontario Council on University Affairs and to respond to changing needs in society. OCUA challenged the institutions to take responsibility for developing a more educated populace, training people for the professions, providing study at the highest intellectual levels and conducting basic and

professions, providing study at the highest intellectual levels and conducting basic and applied research. If these goals do not have the support of the government, Mr. Panabaker said, priorities must be re-assessed.

In response to changing conditions, for example, education in the professions will increasingly become a lifetime rather than a once-for-all experience, he said. Major adaptations will be necessary to meet the needs of continuing education.

He warned that institutions under financial siege develop an inertia which makes change almost impossible to achieve. Universities cannot rely on private sector funding which tends to favor the older, better-known institutions. Neither do they have the flexibility of the primary and secondary systems to obtain funds directly from the taxpayer.

The solution lies in a new consensus on the role of universities, Mr. Panabaker told the government members. "Without such a consensus, the forces of change will be destructive and debilitating." □

THE SENATE COMMITTEE on Educational Development has issued a call for applications. The Committee will award up to \$25,000 for developmental activities during the current year. These funds combine the OUPID grant of \$15,000 and the provisions made by the University to support this activity.

Applications will be considered on a first-come, first-serve basis by a sub-committee of Senate Committee. Further information on the procedures and criteria may be obtained from the Office for Educational Practice, Ext. 3106.

Fall enrolment Continued from page 1.

and Guelph has no experience or evidence as to the attrition rate in this area, he explained.

Guelph's BIU entitlement this fall may be the same or slightly below last fall, he said,

J.S. McLean Lecture

The 1979 J.S. McLean Memorial Lecture will be given by Dr. M. Brunk, professor of agricultural economics, Cornell University, Ithaca, New York, Tuesday, October 23 at 8 p.m. in Room 113 of the Physical Sciences building.

Dr. Brunk will speak on "The Rise and Decline of the Great Hamburger Society."

There is no charge for this lecture which is sponsored by the School of Agricultural Economics and Extension Education. □

The way to the future

Canada's agriculture minister, the Honorable John Wise, returned to his alma mater to deliver the keynote address that wrapped up a very successful Aggie Week '79. Aggie Week Chairman, Stuart Knox, says that while final results have not been tabulated, he expects to have a much higher total of funds raised for charity than last year.

Mr. Wise referred to the recent meeting of the World Food Council held in Ottawa, and the problems that were wrestled with at that meeting. In many countries with limited ability to produce food, the threats of disease and hunger are never very far away, he said.

"We have, not just the ability to produce, but also the ability to help others harness their own agricultural potential in ways that will, gradually, help them to help themselves and stand on their own," Mr. Wise said.

The speaker referred to the Minor in International Agriculture offered by OAC, saying "This is, in my opinion, the way to the future." □

but more than we otherwise expected.

Comparative figures from the other universities in the province will not be available before the end of this month. □

Program	FULL-TIME Semester 1			Total		
	1979	Target	1978	1979	Target	1978
B.Sc. (Agr.)	352	355	397	1502	1445	1534
B.Sc. (Eng.)	56	60	56	242	250	249
B. L.A.	33	34	34	122	115	115
B.A.Sc.	256	250	249	971	940	953
B.Comm.	134	110	109	410	405	360
D.V.M.	120	120	119	483	475	476
B.A.	527	495	553	2159	2125	2355
B.Sc.	666	675	679	2172	2230	2249
B.Sc. (H.K.)	100	85	78	299	280	273
General Studies	95	—	—	102	—	—
Unclassified	79	100	99	79	100	99
Associate Diploma	185	180	179	351	335	336
TOTALS	2603	2464	2552	8892	8700	8999
	PART-TIME			1979	Target	1978
B.A.				427	390	397
B.Sc.				85	80	79
Other				505	180	185
TOTALS				1017	650	661

**UNDERGRADUATE ENROLMENT
FALL SEMESTER, 1979**

FACULTY and STAFF ACTIVITIES

US Showing

Professor Gene Chu, Fine Art, had his lithograph, "The Rolling Tide," selected by the Ade1phi University in Long Island, New York to be shown in its exhibition from June 5 to mid-August. The print, owned by the Art Bank, was one of 17 from the Art Bank's collection chosen for the exhibit.

Botanical Conference

Professors W.G. Barker, J.M. Canne, P.A. Keddy, R.L. Peterson, U. Posluszny and graduate students Jim Brett, John Turnbull and Walter Watt, Botany and Genetics, presented papers at the Canadian Botanical Association meeting at Carleton University, Ottawa. The theme of this year's meeting was "Plants for Man: Plant Science in the Service of Society." Prof. Barker attended the meeting in order to discuss the preliminary plans for the 1981 Canadian Botanical Association conference which will be held at the University of Guelph.

Professor J.C. Alexander, Nutrition, recently attended a Symposium on Food Lipids in St. Louis, Missouri, sponsored by the Institute of Food Technologists. He presented a paper on "Chemical and Biological Properties of Heated Fats."

Professors G. Boehnert and E. Reiche, History, recently participated in the annual information visit to the European Economic Community and NATO headquarters in Brussels. Prof. Boehnert acted as coordinator of the trip which is sponsored jointly by the Department of External Affairs, the NATO Information Service and the EEC.

Eight members of the Department of Political Studies attended the Canadian Political Science Association annual meetings held recently in Saskatoon. Profes-

CLIFF WALKER

The University information program has commenced. Trish Walker, liaison officer is in northern Ontario. From Monday, September 24 to Friday, September 28 she will be visiting the following schools: Iroquois Falls Secondary School, Kapuskasing District High School, Timmins High and Vocational School, Kirkland Lake Collegiate, Ecole Secondaire St. Marie, New Liskeard; Widdifield Secondary School, North Bay; Elliot Lake Secondary School, Ecole Secondaire Macdonald-Cartier, Sudbury, and Parry Sound High School.

During the second week of UIP, Monday October 1 to Thursday, October 4, Richard Leavens assistant registrar, liaison will be addressing the students of the following schools: St. Lawrence High School, Cornwall; South Grenville District High School, Prescott; Brockville Collegiate Institute, Ernestown Secondary School, Odessa; Kingston Collegiate Vocational Institute, Albert College, Belleville; Quinte Secondary School, Belleville, and Cobourg East District Collegiate Institute.

Professor Sam Luker, Family Studies, will be attending the Waterloo Secondary School Conference which is being held Sunday, September 30 and Monday, October 1. Prof. Luker's presentation will be entitled "Today's Family: New Roles — New Goals."

sors **O.P. Dwivedi, F. Eidlin, J. Nef** and R.W. Phidd presented papers. Professors **L. Freeman, J.P. Kyba, F. Vaughan** and **K. Woodside** acted as discussants of papers or participants in panel discussions on various subjects.

Professor B.C. Lu, Botany and Genetics, was invited to participate in the European Molecular Biology Organization course held recently in Carlsberg Laboratorium in Copenhagen. The course was concerned with chromosome pairing and recombination. Coprinus system, Prof. Lu's specialty, was used as part of the laboratory exercise. While in Europe, Prof. Lu visited the University of South Paris in Orsay, France and presented a seminar on meiosis and genetic recombination in Coprinus.

Prof. Lu also recently presented an invitation seminar at Erindale College, University of Toronto. His title was "Genetic Recombination is a Cellular Program of the Meiotic Cell Cycle of the Fungus Coprinus."

Professor Cameron Man, School of Landscape Architecture, spoke on "Presentations and Proposals" during a spring seminar series sponsored by the American Society of Landscape Architecture and held in Hartford, Connecticut.

A.W. **McInnis**, Director of Residences, presented a seminar on "Future Focussing" to the 10th Annual International Institute on the Community College in Samia.

Professor J.R. Ogilvie, School of Engineering, attended the semi-annual meeting of the National Deans of Engineering and Applied Sciences held at the University of Waterloo.

Prof. Ogilvie also has completed his work with the CIDA-McGill study of sugar cane handling in Jamaica. He carried the directorship of the project with him from McGill.

Pathology Professors **J.A. Johnson, M.G. Maxie and V.E.O. Valli** and **Drs. R.M. Jacobs** and T. Stirtzinger recently attended the annual meeting of the Canadian Congress of Laboratory Medicine held in Quebec City. Prof. Valli was moderator of a symposium of veterinary oncology and presented a paper entitled "Cytological Criteria of Cancer Cells." Dr. Stirtzinger's presentation was "Cytological Diagnosis of Tumors of Bones in Dogs," and Dr. Jacobs's topic was "Immunological Diagnosis of Bovine Lymphosarcoma." Prof. Johnson presented case reports of "Myxedematous Dermal Masses Associated with Thyroid Carcinoma in a Dog" and "A Highly Epidermotropic Cutaneous Lymphoma in a Dog Resembling Winger-Kolopp Disease in Man."

Pathology Professors R.J. Julian, P.B. Little, M.G. Maxie, B.P. Wilcock and **Dr. R.M. Jacobs** were in Ottawa to attend the 29th Conference of Canadian Workers in Animal Pathology and the 32nd Meeting of the Canadian Poultry Disease Conference held at the Animal Diseases Research Institute. Papers were presented at the Animal Pathology Conference by Prof. Little, "Current Research on *Hemophilus somnus* Septicemia"; Prof. Wilcock, "Serotype Associated Virulence Factors in Porcine Salmonellosis" and Dr. Jacobs, "Immunologic Studies in Bovine Lymphoma." Prof. Julian spoke on "Veterinary Services in the Caribbean" at a joint meeting of the Ottawa Society of Comparative Medicine and the Conference

of Canadian Workers in Animal Pathology and also spoke on "Poultry Diseases in the Caribbean" at a meeting of the Ontario Poultry Academy in conjunction with the Canadian Poultry Diseases Conference.

Prof. Little also spoke on "Current Research on *Hemophilus somnus* Septicemia" at a meeting of the research committee of the Ontario Cattlemen's Association held at the Animal Science building, University of Guelph in June.

Prof. Julian, as a delegate from the University of Guelph, also attended the North Eastern Conference on Avian Diseases held in Mystic, Connecticut.

Professor David Piggins, Psychology, presented an invited paper by W.R.A. Muntz, University of Stirling, Scotland, and himself, entitled "The Eye and Retina of the Tridactyl Sloth: *Bradypus tridactylus* LINNE" at a conference on edentates (sloths, anteaters and armadillos) held in conjunction with the American Society of Mammologists meeting at Corvallis, Oregon.

Professor John Powell, School of Human Biology, recently showed his latest film, *Cardio-Vascular Club*, to delegates at the Canadian Medical Association annual convention in Toronto.

Prof. Powell showed this film and his *Olympic Profiles — Closing Ceremony* (made with TV Ontario) when he returned this summer from lecturing for a fourth time at the International Olympic Academy at Old Olympia, Greece.

Prof. Powell, also gave a requested speech at the Canadian Medical Association's annual meeting in Toronto. His topic was "What is Kinesiology?". Furthermore, he conducted a workshop entitled "Cardio-Vascular Concerns" for the Canadian Academy of Sports Medicine under the aegis of the CMA the same afternoon.

Sigmund Steinberg

The University community was saddened by the death September 14 of Sigmund Steinberg, for the past two years concert master of the University of Guelph Orchestra and String Instructor.

Mr. Steinberg is best remembered for his contributions to the Toronto Symphony Orchestra during the past 30 years.

Clerk, Dean's Office, OVC. Clerk II. Salary range \$169.49 — \$247.55 (under review).

Lab Technician, Grant Position, Pathology. Salary commensurate with qualifications and experience.

Mail Control Clerk, Office of the Registrar, Admissions. Clerk I. Salary range \$141.84 — \$209.38 (under review).

Agricultural Assistant, Animal and Poultry Science. Salary grade 016. Starting rate \$273.04. Six month job rate \$286.34. One year job rate \$299.66.

Secretary to the Chairman, Chemistry. Salary range \$167.37 — \$239.22.

Stenographer, Horticultural Science. Salary range \$141.84 — \$209.38 (under review).

Stenographer, Clinical Studies. Salary range \$141.84 — \$209.38 (under review).

Clerk, Clinical Studies. Clerk II. Salary range \$169.49 — \$247.55 (under review).

Helper 3-Carpenter (Roofers), Maintenance. Job rate \$7.13. Probation rate \$.20 per hour lower than job rate.



**A LIGHT LEFT ON
IS ENERGY GONE**

Energy economizer arrives

The beauty of the beast

In keeping with the University's policy of energy conservation a 13-ton fuel economizer rolled onto campus last week. Built by the Kentube Corporation of Tulsa, Oklahoma, to specifications supplied by engineers of the Physical Resources Department, the equipment is expected to be in operation by mid-October.

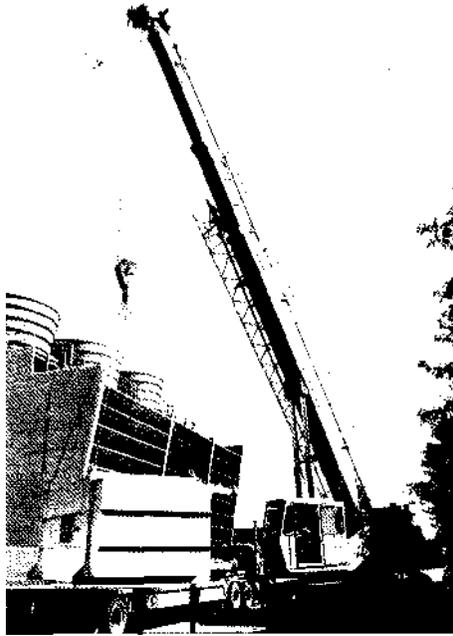
Leo Yaskowich, mechanical engineer with Physical Resources, conservatively estimates the saving to be in the order of some 41 million cubic feet of gas per year, which works out to a saving of \$95,000 annually at the current rate.

The economizer operates by recapturing heat normally lost in the flue gases and uses it to preheat boiler feed water.

The cost of the equipment and installations amounts to about \$115,000. The savings will recoup this cost in approximately 1.2 years.

If all of these figures are too rich for you, Mr. Yaskowich has put them into perspective: "The overall saving in gas in one year would heat the average home for 281 years," he says.

And that adds up to a lot of dollars.D



Overhead crane lifts economizer from flatbed truck.

M.L. (Merv) Tolton has been appointed purchasing manager. In his new capacity Mr. Tolton will assume responsibility for the University's purchasing department.

Mr. Tolton joined the University in 1967 in the capital purchasing office during the period of rapid expansion of the campus building program. In 1973 he was appointed assistant purchasing agent.

A long-standing member of the Purchasing Management Association of Canada, Mr. Tolton began his career in purchasing in 1950 as a buyer with Beaver Lumber Company. Since then, he has been store manager for Stewart Lumber Company, branch manager for the Bond Hardware Company and division manager for the United Co-operatives of Ontario.



TO-DAY ABUSE IT
— TOMORROW LOSE IT

Philip R. Goodrich, associate professor, Agricultural Engineering Department, University of Minnesota, St. Paul, Minnesota, has joined the School of Engineering for one year.

Prof. Goodrich is involved in agricultural engineering extension and his particular interest is agricultural waste management, control of pollution in the environment and energy conservation.

While at Guelph Prof. Goodrich will be associated with the methane project which is under the direction of Professor J. Pos. His special interest is micro-processing in anaerobic digestion.

As chairman of a select committee on bio-gas utilization in individual homes and villages for the National Academy in Egypt, Prof. Goodrich will be visiting China, Thailand, India and Egypt for a six-week period beginning the last week in October.

Prof. Goodrich is accompanied by his wife Helen and their two children Peter and Wendy. □

Dr. Keith Turner of the Colorado School of Mines will be a visiting professor in the School of Engineering.

At present an associate professor in the Colorado School of Mines, Golden, Colorado, he has developed a series of methods for compiling, processing and displaying digital terrain data. He will give a seminar "Digital Processing of Terrain Factors for Planning and Development" October 1 at 3 p.m. in Room 141, Animal Science building.

Prof. Turner will be available for visits with individuals during the week of October 1 to October 5. He will also participate in a seminar on digital terrain models October 9, 10 and 11 at the Arboretum Centre. □

Professor John Patrick, department of applied psychology, University of Aston, Birmingham, United Kingdom, is visiting the School of Human Biology until October 5.

Prof. Patrick will lead a one-day seminar entitled "Training Methods and Objectives" October 4 at the University Centre. For more information, contact the School of Human Biology, Ext. 3705. □

Dr. Edmund Cykler, Professor Emeritus since 1977 at the University of Oregon and internationally renowned scholar, will be visiting the Division of Music from October 1 to October 19 under the short-term visiting professor program.

Dr. Cykler's accomplishments include a Fulbright scholarship for research in Austria; a Health, Education and Welfare Research Grant (1970-71); studies with the eminent musician Arnold Schoenberg (1955-56); learned articles published in American, Czechoslovakian, German, and Yugoslavian journals; publication of textbooks including *An Introduction to Music and Art in the Western World* (now in its sixth edition) and *An Outline History of Music* (now in its fourth edition). He speaks several languages

fluently and has earned a Ph.D. degree from Charles, Czechoslovakia.

While at Guelph, Dr. Cykler will lecture in several courses offered by the Division of Music. He will also present three lectures in a series titled *The Contemporary Spirit in Music and the Arts: avant garde of the historical eras*. The evening lectures on October 2 and October 16, at 7 p.m. in Room 107 of the Arts building will be sequential; the October 9 (noon-hour) lecture in Room 107 of the Arts building, will focus on Czechoslovakia, and, possibly, Poland.

Anyone wishing to meet Dr. Cykler should contact the Division of Music, Ext. 3127. □

PARKING LOTS P. 23, P. 24 and P. 44 will be reserved for the use of guests attending Convocation October 5. Alternate parking for regular users may be found in Lots P. 7, P. 15 and P. 49.

ANYONE SPEAKING FRENCH and interested in receiving news about "things in French" on campus (films, plays, discussions, lectures) is invited to send his or her name and mailing address to Ms. Joan Button, administrative secretary, Department of Languages and Literatures, Ext. 3883.

THE ARBORETUM PROGRAM offers an evening workshop on nature photography, including close-up and telephoto techniques, composition and equipment. Bring 10 of your nature slides for showing to the first meeting, Tuesday, October 9 at 7 p.m. Other workshops will be held Saturday, October 13 at 10 a.m., and Tuesday, November 6 at 7 p.m. Register by telephoning Ext. 3932.

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THE PLACEMENT SERVICES bi-weekly newsletter will begin publication again October 5. The publication addresses itself to graduating students and includes information on job markets, job trends, on-campus recruiting and graduate entrance examination dates. Employment skills programs and job hunting clinics are also announced in this publication. For further information or a copy of the newsletter, visit placement services in the Counselling and Student Resource Centre or telephone Ext. 2213 or 2214.

Business officers meet

The fourth annual meeting of business officers from North American veterinary medical colleges was held at the OVC in August. Most colleges in the United States and Canada were represented, including representatives from a number of schools in the developmental stage. Several hospital administrators also attended some of the sessions and subsequently met separately to discuss the possibility of forming a group for hospital administrators.

The program included intensive discussions on the use of computer systems in college management, the need for uniformity in preparing comparative data and problems of hospital management. A tour of the OVC followed the meeting.

Dr. Peter Jackson of Pennsylvania chaired the meeting, completing the 1978-1979 year. In 1979-1980 the officers will be R.S. Bolstad, California, chairman; Ms. M. Rasmussen, Minnesota, vice-chairman and program chairman and Ms. J. McDonald, Guelph, secretary-treasurer.

The 1980 meeting will be held at the College of Veterinary Medicine, University of Tennessee.0

PERSONALS

For Sale — 2 lamps, 2 pairs drapes, 2 small rugs, 822-0343 evenings; 21" Zenith b/w TV and stand, good condition, 6-drawer, painted double dresser, 3238 or 836-9418; 3-drawer dresser, partially stripped, John McDougall, 8311; single size mattress, excellent condition, Mary, 8706; complete Brownie outfit, size 10, excellent condition, 821-2273; Kodak Super 8 projector and XL-33 camera and carousel slide projector, 3460; boy's hockey skates, size 6, Girl Guide uniform, size 14, 836-3033; garage sale, 847 Stone Road, corner of Watson Rd., 9 a.m., Sept. 29; moss green carpets, 8' x 10' and 10' x 16', 843-5778 after 6 p.m.; garage sale, 21 Waverley Dr., 10 a.m. to 5 p.m., Sept. 29; 39" single bed, 9' x 12' gold shag rug, jute backed, 2449 or 821-1634 after 5 p.m.; Bushnell 8 x 30 roof prism binoculars, never used, 3001 or 821-5965 after 5:30 p.m.; Yamaha folk guitar, 75-1, 823-5013; 1976 Ford ¾ ton pickup, V8, automatic, excellent condition, low mileage, 822-2496 after 6 p.m.; new sofa-bed, 821-0487; Boston terrier pup, 3 months old, good markings, dewormed, 824-0644; 1975 Dodge van, certified, 3387 or 821-1493; 1972 Datsun 1600, body excellent, certified; 15" radial, wide tires for VW, Wendy, 8579 or 824-6272 after 5:30 p.m.; girl's white dresser with mirror, 3 drawers; guitar D'Armond Pickup, almost new, 824-9506 evenings; Simmons hide-a-bed, 822-4338; Hammond organ, excellent condition, 3655 or 822-5395; 1973 Montego and 1973 Datsun, new paint and tires, 836-3196; Kant-wet travelling crib, small crib, regular sized crib, playpen, cradle, Hanksraft sterilizer, Curity bottles, assorted clothing up to 2 year size, mainly female; maternity clothes, walker, 821-5645 after 6 p.m.; 30" Kenmore stove, excellent condition, fireplace grate and screen, 824-3993; '71 Datsun 240Z, good condition, twin beds, dresser, mirror and night table, 2 upholstered chairs, 3753 or (416) 878-7594.

Goods and Services

Wanted to Buy — Small upright or chest freezer, 821-6394.

OVC and Princess Margaret Hospital share canine cancer study

Many research projects would grind to a halt were it not for members of allied disciplines sharing expertise. So it is with a study on the management of canine mammary cancer currently under investigation by the Princess Margaret Hospital, Toronto, and the OVC.

Dogs, like humans, are prone to mammary cancer, and left untreated the end result is the same.

Clinician Dr. Alan Norris of the Small Animals Clinic evaluates all animals referred to OVC by using the appropriate biochemical tests, radiographs and fine needle aspirations to evaluate the nature and extent of the disease. Before removing the tumor the animal is taken to the Princess Margaret Hospital to undergo a lymphoscintigraphy, a procedure developed at that hospital, which checks the involvement of local lymph nodes. During this process the stage of the disease is

ascertained, often minimizing necessary surgery. Carried out under mild tranquilization, the procedure is completely painless. A radiocelluloid is injected under the skin of the abdomen which targets on the local lymph nodes. Normal lymph nodes show up very clearly on the scintigraph. Poor visualization suggests tumor involvement and surgical removal is indicated. The technique takes only about 10 minutes and the animal is returned the same morning.

As with all research techniques, practice makes perfect, and Dr. Norris has sent a request to veterinarians across the province to refer suspected cases to the clinic for assessment. Early diagnosis permitted by this unique method could prevent future suffering for the animal and it assists in the perfection of a technique which can be beneficial in the control of human mammary cancer, he says. □

Success stories for Agricultural Economics

Agricultural Economics students and faculty of the School of Agricultural Economics and Extension Education have recorded a number of success stories this year. At the annual meeting of the Canadian Agricultural Economics Society in Toronto in June, Professor J. Clark was awarded a certificate of achievement as senior author of the best journal article in the *Canadian Journal of Agricultural Economics* 1978. The article was entitled "A Simulation Model to Evaluate the Time-Quantity Response in Specialized White Veal Production." Other authors were Neil H. Sturgess, James W. Wilton and Phillip M. Stone.

At the same meeting Richard E. Haack was awarded first prize in the CAES Master's thesis contest. His thesis was entitled "An Analysis of the Economic Implications of Supply Management and Stabilization Programs in the Canadian Beef Sector." Professor L. Martin was the thesis supervisor. Allen Gowan won first prize in the CAES undergraduate essay contest. His essay, entitled "Productivity in Canadian Agriculture," was written for Professor T.K. Warley. Mr. Haack was also named one of three winners of the American Agricultural Economics Association's Outstanding Master's Program Award. The award was received at the recent AAEA annual meetings in Pullman, Washington.

These awards add to an already impressive record for which both faculty and students in Agricultural Economics can be justly proud,

says the School's director, Professor Elmer Menzie. School graduate John Stackhouse won second place for the CAES Master's thesis award in 1976 and David House won second prize for the student essay contest. In 1977, the first-place thesis award was taken by Douglas Holliday with second place by John Groenewegen. In the same year Professor Driver and John Stackhouse won the CAES best journal article award and John Hansen won first place in the student essay competition. In 1978, Harry De Gorter won second prize in the CAES Master's thesis awards and Martin Walker won second prize in the undergraduate essay competition. Professor G.L. Brinkman and Jack A. Gellner, as joint authors, won the best journal article award.

Perhaps even more remarkable is the School's agricultural economics awards record in the American Agricultural Economics Association's Outstanding Master's Program. During the past seven years a total of 19 awards have been made by the AAEA; the School's M.Sc. graduates have won four. The only other institution with a better record is Purdue with a total of five.

This record of performance has brought the University and the School important recognition both nationally and internationally, notes Prof. Menzie. The students and faculty contributing to this record are to be congratulated for a job well done, he says. □



Prof. Menzie, right, receives CAES award from Prof. Clark.



Prof. Martin, left, with CAES and AAEA Thesis Award Winner Richard Haack.

Next Week at Guelph

Wednesday, 79 10 03

Video Tape - TBA, 11:00 to 15:00, UC 103.

Luncheon Special - 11:30 to 13:30, PCH.

Worship - CATHOLIC MASS, 12:00 Chapel, level 5, UC; IMMANUEL FELLOWSHIP, 19:00, 8th fl. lge., Arts.

Employment Search program - THE RESUME, JOB LOCATION/STRATEGIES, THE LETTER OF APPLICATION, 13:00 to 14:00, UC 301. For further information inquire at the Counselling and Student Resource Centre, at the Connection Desk, level 3, UC. Engineering Seminar - DIGITAL TERRAIN MODELS, Dr. Keith Turner, visiting professor from the Colorado School of Mines, 15:00, Phys. Sc. 121.

OPIRG Free Films - Fritz Lang's M and award winning shorts, BALLET ADAGIO and PAS DE DEUX, 19:00, Land. Arch. 204.

Dance Club - INTERNATIONAL FOLK DANCE CLUB, English, Israeli, Greek, Bulgarian, Swedish, ballroom dancing, your choice; every Wednesday, 20:30, upstairs in Alumni Stadium (Gryphon Room). For more information, call Ext. 8728 or 836-8453.

THURSDAY, 79 10 04

Meeting - UNIVERSITY OF GUELPH RETIREES GATHERING, 09:00, Arboretum Centre.

Continued from page 8.

Luncheon Special -TBA, 11:30 to 14:30, PCH.

Noon Hour Concert - ARRAY from Canada, flute, trombone, viola, 'cello, piano and percussion, 12:10 and 13:10, Arts. 107. Admission free.

Counselling and Student Resource Centre - LEGAL ADVICE SERVICE, a lawyer will be available every Thursday afternoon to provide legal advice. Service ends 79 11 22. Contact the Connection Desk, level 3, UC to make an appointment. EMPLOYMENT SEARCH PROGRAM: THE INTERVIEW, 13:00 to 14:00, UC 301; CAREER BUILDING SEMINAR: TEST INTERPRETATION, 18:00 to 21:00; register by contacting client co-ordinator or at Connection Desk, Counselling and Student Resource Centre, level 3, UC.

Worship - CATHOLIC MASS, 17:00, Chapel, level 5, UC; ANGLICAN EUCHARIST, 17:10, UC 334; INTERVARSITY CHRISTIAN FELLOWSHIP, 19:00, 9th fl. lge., Arts; CHRISTIAN DOCTRINE CLASS, 20:00, UC 334. Meeting - NAVIGATORS NEW LIFE, 19:00, UC 442.

Continuing Education - GREAT MYSTICS: CHRIST AND RAMAKRISHNA, Dr. P. Hourihan, 19:30 to 21:00, 10 sessions. Contact Ext. 3956, 3957 or 3958 for more information.

AN UNPREDICTED rate increase by Guelph Hydro following a similar increase to them from Ontario Hydro, will result in an approximate 13 per cent rate hike to University hydro costs.

Unless further conservation measures are taken, the increase will cost the University nearly \$130,000 by the end of the budget year.

The University Energy Conservation committee asks everyone's co-operation in conserving electrical energy, especially during the peak use hours from 10 a.m. to 4 p.m. Turning off unneeded lights and equipment, particularly during these hours, can help reduce this extra cost.

DR. MAHMOUD SADEK of the Department of Fine Art will deliver three public lectures in connection with the exhibition of King Tutankhamun artifacts to be held in Toronto in November and December. The lectures, all at 8 p.m., are October 17, Room 113, Physical Sciences building; October 24, Room 105, Physical Sciences building and October 31, Room 105, Physical Sciences building.

Prof. Sadek, who has taught ancient art and archaeology since 1970 at Guelph, has directed an archaeological survey near Alexandir, Egypt which led to the discovery of the city of Masea.

THE DEADLINE for London (winter) semester applications is October 1. Information and application forms are available from Marshall Matson, Room 437, Arts building, Ext. 3265.

Next Week at Guelph

THURSDAY, 79 09 27

Exhibits — COLOR PHOTOGRAPHS by Patricia Storey, Guelph graduate, main floor, Arts, until 79 10 01; 100 YEARS OF THE POSTER IN CANADA, featuring elections, the war bond drive, product promotion and artistic events; exhibit organized and circulated by the Art Gallery of Ontario; McLaughlin Library until 79 10 15.
Luncheon Special — 11:30 to 14:30, PCH.
Noon Hour Concert — COLIN KINGSLEY, pianist from Scotland, 12:10 and 13:10, Arts 107. Admission free.
ICS Course — INTRODUCTION TO COMPUTER SIMULATION, S. Wang, 13:00 to 15:00, ICS; course continues 79 1004, 79 10 11 and 79 10 18. To register, call Ext. 3046.
Counselling and Student Resource Centre — EMPLOYMENT SEARCH PROGRAM: THE INTERVIEW, 13:00 to 14:00, UC 301; STUDY SKILLS WORKSHOP II, 14:00 to 16:00 and STUDY SKILLS WORKSHOP III, 19:00 to 21:00. To register, contact the Connection Desk, level 3, UC.
Worship — CATHOLIC MASS, 17:00, Chapel, level 5, UC; ANGLICAN EUCHARIST 17:10, UC 334; INTERVARSITY CHRISTIAN FELLOWSHIP, 19:00, 9th fl. Ige., Arts. CHRISTIAN DOCTRINE CLASS, 20:00, UC 334.
Meeting — NAVIGATORS NEW LIFE MEETING, 19:00, UC 442.
Continuing Education — BRUSH UP YOUR BASIC WRITING SKILLS, 10 sessions with Prof. G. Rubio, 19:00 to 20:30. To register, call Ext. 3956, 3957 or 2958.
Meeting — INFANT STIMULATION PROGRAM, with speaker George Hart, sponsored by the Wellington Branch of the Association for Early Childhood Education, 19:30, Faculty Ige., FACS building. The toddler program of the Family Studies Lab Schools will be open for observation, 19:30, 17 University Avenue East.
French-Canadian Film — G.A. MARTIN, PHOTOGRAPHE, 20:00, Fireplace Ige., Lennox-Addington. All welcome.
Live Series — HIGHLIGHT CITY, 10:00, PCH. Admission \$1.
CSA Pub — ROLLING STONES NIGHT, 20:00, Bullring. Admission 75 cents.

FRIDAY, 79 09 28

Video Tape — WHO'S THAT COMIN'? (Blues) and RUDE SONGS, 11:00 to 15:00, UC 103.
Luncheon Special — 11:30 to 13:30, PCH.
ICS Course — MARKS — Marks Recording System, Jane Miller, 13:00 to 16:00, ICS; to register, call Ext. 3046.
Two-Bit Flick — THANK GOD IT'S FRIDAY, 19:00 and 21:00, Phys. Sc. 105. Admission 25 cents.
Body Awareness — CHILDBIRTH, films and discussions with Dr. and Mrs. W. Goldsmith, 19:30, UC 442.
UGCSA Presents — ERNIE SMITH, Roots revival, 20:00, PCH.

SATURDAY, 79 09 29

Inter-Face — STUDY SKILLS FOR INTERNATIONAL STUDENTS, 10:00 to 15:00, Faculty Ige., Macdonald Institute building. For more information contact Anne Ruhl or Don Amichand, Counselling and Student Resource Centre, level 3, UC.
UGCSA Presents — STEPHANE GRAPPELLI, violinist, 19:00 and 21:30, WMH. Tickets, at \$8.80 (general) and \$7.70 (student), obtainable from the central box office, UC courtyard. TEENAGE HEAD, 20:00, PCH. Admission \$2.

SUNDAY, 79 09 30

Worship — CATHOLIC MASS, 10:10, PCH.
Cine Series — HEAVEN CAN WAIT, 19:00 and 21:30, WMH. Admission \$1.75.

MONDAY, 79 10 01

Video Tape — TBA, 11:00 to 15:00, UC 103; continues 79 10 03 and 79 10 05.
Women's Hour — HOW TO HAVE A HEALTHY PREGNANCY, 12:00, UC 441.
Meeting — LIBERAL CLUB, 17:30, UC 332.
Leadership Program — LEADERSHIP AND GROUP DYNAMICS, 18:30 to 21:00. To register, contact Anne Ruhl, Counselling and Student Resource Centre, level 3, UC.

TUESDAY, 79 10 02

Our World Series — THIS IS APARTHEID TODAY, slide program traces the history of oppression in South Africa, 12:00, UC 442.
Worship — ANGLICAN EUCHARIST, 12:10, Chapel, level 5, UC; CATHOLIC MASS, 17:00, Chapel, level 5, UC.
Employment Search Program — INTRODUCTION: THE SELF ASSESSMENT, 13:00 to 14:00, UC 301.
Languages Seminar Series — THE TECHNIQUES OF THE NOVEL AND THE DIFFICULTIES OF READING A MODERN TEXT, M. Jean Ricardou, French writer and critic, 13:00 to 15:00, Arts 308.
ICS Course — TEST SCORING, Jane Miller, 13:00 to 16:00, ICS; to register, call Ext. 3046.
Physics Colloquium — SYNCHRONIZATION OF OPTIC NERVE RESPONSES BY LATERAL INHIBITION IN THE HORSESHOE CRAB RETINA, Prof. G.H. Renninger, Physics, 16:00, Phys. Sc. 113. Coffee available in Room 214.
Lessons — DISCO DANCE LESSONS, 18:00 to 01:00, PCH.
Counselling and Student Resource Centre — STUDY SKILLS WORKSHOP III, 19:00 to 21:00, continues 79 10 04. To register, contact the Connection Desk, level 3, UC; JOB HUNTING CLINIC IN RESUME WRITING, 18:00, Counselling and Student Resource Centre. No need to register; just drop in. Clinic open every Tuesday evening.
Continuing Education — TIME MANAGEMENT, Al McInnis, 4 sessions, 19:00 to 21:30; GENEALOGY AND SOCIAL HISTORY, Prof. A. Brookes, 8 sessions, 19:00 to 21:00; PRINCIPLES OF MARKETING, Prof. J.G. Murray, 6 sessions, 19:00 to 22:00; ENERGY AND THE WAY WE LIVE, 8 sessions, 20:00 to 22:00. To register for these courses call the University School of Part-time Studies and Continuing Education, Ext. 3956, 3957 or 3958.
Lecture — STENDHAL ET LA VIE AMERICAINE, Prof. Philippe Berthier, Université de Grenoble III, 19:30, UC 442.
UGCSA Presents — TROIANO, 20:00, Bullring.
College Women's Club Fashion Show — CLOTHES ENCOUNTERS, 20:00, Holiday Inn. Tickets, at \$3.50, may be obtained by telephoning 824-7559.
Theatre — BLITHE SPIRIT presented by the Shaw Festival Theatre, 20:30, WMH. Tickets, at \$7 (general) and \$6 (student/seniors), obtainable from the central box office, UC courtyard.

WEDNESDAY, 79 10 03

Office for Educational Practice Workshop — SIX STRATEGIES FOR TUTORIALS, seeks to increase the effectiveness of teaching in tutorials; there will be role-playing exercises designed to make tutors more aware of their own strategies and make them more confident to handle small groups. Workshop should be of special interest to graduate teaching assistants. For more information call Ext. 3522.

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The News Bulletin is published by the University of Guelph. Items must reach the editor, Sandra Webster, Department of Information, level 4, University Centre, by noon Friday. Contents may be quoted or reproduced.

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