

Visitor from Peking

Mr. Wang Hsi-wu, a student under the Canada-Chinese exchange student program, is presently working in the Institute of Computer Science at the University of Guelph. He graduated in biophysics from the Peking Agricultural University in 1964 and did graduate work at the Bio-Electrical Research Institute. Since 1968 he has worked at the Research Institute for Application of Atomic Energy, part of the Chinese Academy of Agricultural and Forestry Sciences, where his responsibility was the measurement of the bio-effects of different radioactive dosages.

Mr. Wang originally came to the University of Toronto, in the fall of last year, but since his main interest is the use of computers in agriculture it was agreed that Guelph would be a more suitable location for his studies. Since his arrival here he has taken several short courses at ICS and worked closely with Dr. Shein Wang of Academic Computer Services in order that he might become familiar with the use of computers in simulation work. He is also studying some simulation work in corn genetics done by researchers in the Department of Crop Science. His review of the literature in the use of computers for simulation work in agriculture has been useful to ICS staff. In addition, he has participated in the programming work of the swine production model currently being developed by the Department of Animal and Poultry Science.

Mr. Wang, who expects to remain in Canada until April 1979, hopes during his remaining stay here to continue study of other applications of computers in agriculture, such as statistical analysis, to continue to improve his programming skills and to take selected courses in applied statistics. □



Officials from the Chinese embassy in Ottawa recently visited their countryman, Wang Hsi-wu, who is studying at the University, and toured the University campus. Among those who toured the ICS building were Prof. Ken MacKay, Associate Director, Academic Computer Services; Liu Ching-hua, first secretary to the Chinese embassy, Dr. Shein Wang (in plaid shirt), Mr. Choi and, to the right of Mr. Liu, Don Amichand, Student Affairs; Yang Ching-hue, third secretary to the Chinese embassy and Wang Hsi-wu.

New entrance scholarships awarded

The first three of a new series of entrance scholarships to the University of Guelph were presented to Sophia Dinnissen, Robert Wildboer and Robert Switzer by President Forster on Wednesday, 78 07 19. The scholarships, valued at \$1,500 each were awarded on the basis of the students' Year 5 admission average. A total of 75 are expected to be awarded over the entire year.

The University had previously been ranked low in moneys awarded annually for scholarships and in the proportion of its Grade 13 freshman who were Ontario Scholars and, in

response, the Senate voted last November to introduce the 75 entrance scholarships to replace the 50 existing ones, and a further 150 early in-course scholarships of \$500 each: 75 to be awarded to students completing semester 1 and 75 to be awarded to students completing semester 2.

By expanding the scholarship program by approximately \$163,000 annually the University will provide outstanding students entering Guelph with money equal to about half the total cost of their first year and, in addition, recognize the academic record of those already in their first two semesters here. □



Scholarship winners Sophia Dinnissen, Robert Switzer and Robert Wildboer with Vice President Academic H.C. Clark and President D.F. Forster. Miss Dinnissen hopes to major in agricultural economics, Mr. Switzer in English and philosophy and Mr. Wildboer in economics and history.

FACULTY ACTIVITIES

Professor D.A. Barnum and **Lloyd Thackeray**, Veterinary Microbiology and Immunology, participated in the instruction of a regional training course in Veterinary Diagnostic Microbiology for South East Asia held in Malaysia. This course was under United Nations Educational Scientific and Cultural Organization sponsorship. Prof. Barnum was the international co-ordinator of the course. While in Malaysia, Prof. Barnum presented seminars to the Malaysian Association of Veterinary Surgeons and to the Society of Parasitology and Tropical Medicine at the Medical Research Institute.

Professor B.L. Raktoe, Mathematics and Statistics, will be on leave without salary from 78 09 01 to 79 08 31. Most of his leave will be spent in the department of mathematics, University of California at Davis, where he has been given a special appointment as visiting professor to aid in the organizing and strengthening of statistics in the department of mathematics at Davis. Research trips to the University of Hawaii, University of Illinois, and Cornell University will also be part of his program.

A number of faculty, students and research associates from the Department of Chemistry participated in the recent Chemical Institute of Canada conference in Winnipeg. Some of the papers given were: "Preparation and Some Reactions of Platinum (II) Dihydrides" by **Professor H.C. Clark**, **A.B. Goel** and **C.S. Wong**; "Some Novel Reactions of Tris (t-Butyl) phosphine with Platinum Metals" by **Professor R.G. Goel** and **W.O. Ogini**; "Cobalt and Iron Octamethyltetraporphorphyrin Complexes - Unusual Oxygenation Behavior" by **Professor B.R. James**, **D.W. Smith** and **Professor K.J. Reimer**; "Detection and Identification of Atoms and Small Radicals in Solution by Spin Trapping" by **Professor E.G. Janzen**, **E.R. Davis** and **Y.Y. Wang**; "Synthesis and Spin Trapping of Ketals and Acetals of Nitronyl Alcohols" by Prof. Janzen and **R.L. Dudley**; "Recent Developments in the Technique of Flow N.M.R." by **Professor C.A. Fyfe**, **D. Bruck**, **S.W.H. Damji**, **W.E. Sanford**, **C.D. Malkiewicz**, **A. Koll** and **P.A. Forte**; "Applications of High Resolution ¹³C.N.M. I of Solids including 'Magic Angle' Spinning Technique to the Investigation of the Structures of Organic Solids" by Prof. Fyfe, **J. Lyeria** and **Professor C.S. Yannoni**; "Double Layer Effects for the Electroreduction of Dicyanobenzenes in Dimethylformamide" by **A. Baranski** and **Professor W.R. Fawcett** and "The Structure of the Double Layer at the Mercury Dimethylformamide Interface" by Prof. Fawcett and **B. Ikeda**.

Professor J.M. deMan, Food Science, attended the 5th International Rapeseed Conference in Malmo, Sweden, where he presented a paper entitled "Crystallization Behaviour of Hydrogenated Rapeseed Oil."

He also attended the 20th International Dairy Congress in Paris, France where he presented a conference lecture entitled "Technical Problems and Utilization of Products with High Contents of Milkfat."

Professor Alex Michalos, Philosophy, presented a paper at the University of Windsor Conference on Informal Logic on "Advertising: Its Logic, Ethics and Economics."

R.J. MacKinnon and **J.B. Black**, Library, attended the recent annual meeting of the Canadian Association of Information Science in Montreal. A few

weeks earlier, Professor Black made an invited presentation to the Ottawa Chapter of C.A.I.S. on "International Traffic in Information Services and Data Bases: Some Facts of Life."

Professor R.S. Singh, Mathematics and Statistics, attended the Fifth International Symposium on Multivariate Analysis held recently at the University of Pittsburgh. Professor Singh also gave a talk on "Nonparametric Estimation of Mixed Partial Derivatives of a Multivariate Density" and had wide ranging discussions on the subject with Professors M. Rosenblatt of University of California, San Diego and A.T. James of University of Adelaide, Australia, who were among those attending the symposium.

In response to a request from the Ontario Ministry of Agriculture and Food and as a contribution through

the OAC Extension Services Program, faculty from the OAC Departments of Environmental Biology, Horticultural Science, Land Resource Science and Crop Science participated in the educational program for inservice training of OMAF Soils and Crops Branch personnel held at the Arboretum Centre. Those taking part were: **Professor K.M. King**, "Land Resource Science Programs"; **T.E. Bates**, "Soil Test and Fertilization Recommendations"; **Professor D.M. Brown**, "A Computer Model Developed for Crop Insurance Purposes for Forage Crops"; **Professor R.B. Hunter**, "Corn Hybrid Testing" and "Agriculture in Ghana"; **Professor T.B. Daynard**, "Corn Silage Recommendation Changes"; **Professor R.J. McLaughlin**, "Kale and Corn Silage Combinations"; **Professor W.D. Beversdorf**, "Soybeans for Ontario" and **Professor I.L. Nonnecke**, "Working Relationship Between Extension and the Horticultural Department of Guelph."

PUBLICATIONS

Panangala, V.S. and D.A. Barnum, 1978. "Antibiotic Resistance Patterns of Organisms Isolated from Cervico-Vaginal Mucus of Cows". *The Canadian Vet. Journ.* 19 (5) May: 113-118, (Veterinary Microbiology and Immunology).

Eidlin, F.H., 1977. "'Politics' and 'Science' in Political Science" in Nicholas Nyiri and Rod Preece (eds.), *Unity in Diversity*, Wilfrid Laurier University Press, pp. 231-267, (Political Studies).

Geraci, J.R., 1977. "Marine Mammal Care." Duplicating Centre, University of Guelph. 93 pp. (Pathology).

Lee, E.H. and M.A. Fernando, 1978. "Immunogenicity of a Single Sporocyst of *Eimeria maxima*." *J. Parasitol.* 64: 483-485, (Pathology).

Meuten, D.J., S.M. Price, R.M. Seiler and L. Krook, 1978. "Gastric Carcinoma with Pseudohyperparathyroidism in a Horse." *Cornell Vet.* 68: 179-195, (Clinical Studies, Pathology and Cornell University).

Lotter, V., 1978. "Follow-up Studies" in *Autism: A Reappraisal of Concepts and Treatment*. Rutter & Schopler, eds. Plenum, pp. 475-495, (Psychology).

Bartocci, G., 1978. "Ultima da Skodyinzon." *Silarus*, pp. 77-78, (Languages).

Dorter, Kenneth, 1978. "Ontology and Continuity." *Idealistic Studies*, 8: 93-114, (Philosophy).

Newman, Jay, 1977. "On Avoiding the Agony of Don Manuel." *Revue de l'Université d'Ottawa*, 47: 377-384, (Philosophy).

Teskey, B.J.E., Horticultural Science, and S.R. Miller, Smithfield Experimental Farm, Agriculture Canada, 1978. "Growth Regulators in the Orchard." *OMAF Factsheet*. (Horticultural Science).

Armitage, A.M., M.J. Tsujita and Patricia M. Harney, 1978. "Effects of Cycocel and High-intensity Lighting on Flowering of Seed-propagated Geraniums." *Journal of Horticultural Science* 53: 147-149, (Horticultural Science).

Robinson, Helier J., 1978. "The Opposite of Solipsism." *Idealistic Studies*, May, pp. 162-168, (Philosophy).

Kamel, Basil S., and J.M. deMan, 1977. "Some Fac-

tors Affecting Gelatin Gel Texture Evaluation by Penetration Testing." *J. Texture Studies* 8: 327-337, (Food Science).

Tizard, I.R., A. Mellors, W.L. Holmes and K. Nielsen, 1978. "The Generation of Phospholipase A and Hemolytic Fatty Acids by Autolysing Suspensions of *Trypanosoma congolense*." *Tropenmedizin und Parasitologie* 29: 127-133, (Veterinary Microbiology and Immunology).

Prescott, J.F., 1978. "Intestinal Disorders and Diarrhea in the Rabbit." *Vet. Bull.* 48: 475-480, (Veterinary Microbiology and Immunology).

Retman, R., 1978. "The Derivation of Adjectives from Place-names in Polish." *The Polish Review*, 23 (1): 86-90, (Languages).

Retman, R., 1978. "L'adaptation phonétique des emprunts à l'anglais en français." *La Linguistique*, 14 (1): 111-124, (Languages).

Jordan, D.C., Patricia J. McNicol and Margaret R. Marshall, 1978. "Biological Nitrogen Fixation in the Terrestrial Environment of a High Arctic Ecosystem (Truelove Lowland, Devon Island, N.W.T.)." *Can. J. Microbiol.* 24: 643-649, (Microbiology).

Nasby, J.M., 1977. Catalogue introduction, *Lillian Freiman Paintings and Drawings*, Kingston: Agnes Etherington Art Centre, (Curator of Art).

Hathorn, Ramon, 1977. "L'Irlandais dans le roman québécois." *Etudes Irlandaises* (Lille III), December, pp. 117-123, (Languages).

Fathalla, M.A., T.M. Liptrap, T. Bast and H.D. Geisinger, 1978. "Steroid Concentrations and Correlative Uterine Microscopy in Cows with Cyclic Ovaries." *Scanning Electron Microscopy*, 2: 275-282, (Biomedical Sciences).

Grant, Judith Skelton, 1978. "Robertson Davies, God and the Devil." *Book Forum*, Vol. IV, No. 1, pp. 56-63, (English).

Hutchison, Ann, 1978. "Marian Engel, Equilibriste." *Book Forum*, Vol. IV, No. 1, pp. 46-55, (English).

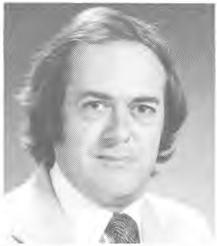
Austin, A.E., 1978. Review of "Morley Callaghan," by Patricia Morley and "Robertson Davies," by Judith Skelton Grant. *Quill and Quire*, July, (English).

APPOINTMENTS



Paul Keddy has joined the Department of Botany and Genetics as assistant professor. Dr. Keddy received his B.Sc. from York University in 1974 and has just recently completed his Ph.D. program at Dalhousie University in Halifax. His

research interests lie in the area of plant population dynamics; his teaching responsibilities at Guelph will be concentrated in the areas of plant biology and ecology. Dr. Keddy brings to his position extensive radio and television experience through his work on natural history programs. He was also founding president of the Halifax Field Naturalists Club.



Ronald M. Sunter has been appointed assistant professor in the Department of History. Dr. Sunter was a medallist in 18th century European history when he graduated from the University of Edinburgh. He received his M.A. from that university in 1967 and his

Ph.D. in Scottish history in 1971. He has taught at the University of Guelph in 1971, from 1973 to 1975 and from 1976 until being appointed to his present position on 78 07 01. Author of a number of articles and presently researching a book on 18th century Scottish politics, Dr. Sunter will teach undergraduate courses in British and European history and supervise graduate studies in Scottish and British history.



Alan A. Brookes was appointed to the position of lecturer in the Department of History, effective 78 07 01. Mr. Brookes received his B.A. and M.A. degrees from the University of Hull (England), was a visiting lecturer at the University of Victoria, British

Columbia, last year, and is currently completing his doctoral thesis for the University of New Brunswick. The title of his dissertation is "The Exodus: Migration from the Maritime Provinces to Boston, 1850-1900." Mr. Brookes has already published several essays on this topic and will teach in his general field of interest, nineteenth-century Canadian social history.



Lynn Barbeau has been appointed Assistant Curator in the Office of the Curator of Art. She received her honors B.A. degree in Fine Arts majoring in Art History from the University of Guelph in 1974. During her undergraduate

years at Guelph she served as Assistant to the Curator, was a student member of the University's archaeological excavation team in Spain, an art writer for the *Hamilton Spectator* and was on the Art Purchase and Art Acquisition Committees for the University's Canadian collection. Since graduation she has held the position of Curator of the Sarnia Public Library and Art Gallery (1975-1977) and Education Officer of the London Regional Art Gallery from 1977 to 1978.



Mrs. Jane Anneveld

In the basement of Johnston Hall, near the bottom of the front north stairs, is the OAC Tuck Shop. Mrs. Jane Anneveld, the genial, relaxed woman who has been with the shop for the last 10 years, would like more people to know about this handy little store.

"Students in their second or third year have come in and said they didn't realize the store existed," says Mrs. Anneveld. "They were amazed at all the things available here."

The only store on the north end of the campus, the tuck shop, which is owned by the Guelph Campus Co-op, is a cosy place, but deceptive. It carries an extensive variety of items from paper goods, such as school supplies, stationery and magazines, to food-stuffs, including soup, biscuits, coffee, milk and ice cream. Nylons, tobacco and cosmetics have also found a place on the neatly organized shelves. The Post Office was located here before the University Centre opened, and Mrs. Anneveld still sells stamps and weighs parcels.

Originally, when Johnston Hall opened in the 1930's, this area and an adjoining room were allocated to the Co-op Bookstore. The OAC title of the tuck shop harkens back to those days when the Guelph Campus Co-operative, the oldest continuously run co-op in Ontario, was called the Ontario Agricultural Students Co-operative Association. The bookstore was located here, with a break during the war, until it moved first to College Avenue in the early sixties and then to its present position in the Physical Sciences building. Remnants of this past are apparent in the school supplies and crested goods still available in the tuck shop.

As well as faculty and staff from surrounding offices, students from nearby residences such as Johnston, Maids and Lambton, frequent the shop. "Some from the upstairs rooms come down here in their socks to grab a pop or milk out of the refrigerator," Mrs. Anneveld says, "just like at home."

Mrs. Anneveld, who has raised three daughters, now all registered nurses, likes working near young people. She enjoys meeting new students and welcoming others back at the beginning of each term. Over the years, she has detected a general change in students which might surprise some people: "They seem to be more mature now, although they're the same age as students in the past. And they're more polite."

The campus has changed so greatly over the years that Mrs. Anneveld feels she could almost get lost. "Usually I just park outside and come into the store," she notes, "but I need a map for the new parts of the campus." She prefers Johnston Hall to any of the new buildings. "I've been here so long that I know all the faces. It's really friendly." □

BRIEFLY

CANADA COUNCIL DOCTORAL FELLOWSHIP — Mrs. Elizabeth Bloomfield of Guelph is among those who have been awarded Canada Council doctoral fellowships for 1978-1979. A total of 569 first-time winners were chosen from a field of 2,142 applicants. The fellowships, worth from \$6,360 to \$7,420 include a travel allowance, if necessary, and are tenable at Canadian or foreign universities. Mrs. Bloomfield, who has been associated with the Department of Geography at the University of Guelph as a sessional lecturer in past years, is presently enrolled here as a graduate student. Her area of doctoral study is urban history and, in particular, the city building process of Kitchener (Berlin).

TWO POSITIONS OPEN AT AUCC — The Association of Universities and Colleges of Canada is inviting applications for the positions of liaison officer and research officer in the newly established International Development Office. The liaison officer will be responsible for the establishment of the office and for liaison networks and the research officer will carry out research on international development agencies and on higher education needs of the developing countries and will assist in identifying resources in Canadian universities. The candidates should have university degrees and have fluency in both official languages. Resumes should be forwarded as soon as possible to the Director of Administration, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, K1P 5N1.

MUSIC AT NOON — The Syrinx Woodwind Quintet from West Germany, whose members are all principal musicians with the Munich Orchestra, will perform on Thursday, 78 08 24 at 12:00 in Music Room 107, Arts. If the weather is fine, the concert may be moved outdoors.

A REMINDER — There will be no *News Bulletin* published on 78 08 10 and 78 08 17. The next issue will appear as usual on 78 08 24.

PARKING NOTICE — The revised Parking and Traffic Regulations have been approved by the University of Guelph Board of Governors. Please note the following changes:

- a) Section 6 (c) to be changed to read:
"Operating or parking a motor vehicle on lawns or other landscaped areas will result in a fine of \$15 plus the actual cost of repairs.
- b) Section 6 (d) to be changed to read:
"A fine of \$5 will be levied for all other violations within these regulations." This will increase the present \$2 fine levied for meter violations to \$5.

Copies of the revised regulations have been sent out to all faculty and staff. Additional copies are available at the office of Parking Administration, Level Three, University Centre.

A LIGHT LEFT ON IS ENERGY GONE

Escarpment study summer task

A University of Guelph team joined the annual summer exodus to the Bruce Peninsula this year. But unlike most summer visitors, they were being paid for their sojourn on Georgian Bay. Two University of Guelph graduates and three undergraduates, all geographers, spent the spring semester carrying out an inventory of a section of the Niagara escarpment under the direction of geography professors M.R. Moss, W.G. Nickling and R.G.D. Davidson-Arnott. The project received financial support from the Ministry of the Environment.

Object of the study was to determine the overall stability of a section of the Niagara escarpment in the Hope and Barrow Bays area. Detailed surveys of topography were related to geological formations and the nature of the forest cover.

The team also carried out a study of the current geomorphic processes on the escarpment and the stability of various features, such as talus slopes (a tumbled mass of small rock debris) and rock fall. They made some assessment of the nature of plant succession and correlated the dynamics of vegetation change with the geomorphic processes.

The geographers found considerable evidence of relative instability of much of the ground surface at the top of the escarpment,

University of Guelph study team in the Bruce Peninsula included, back row from left, Joanne Lester, Prof. Nickling, Dave Randall, Prof. Moss, Craig Merkley, Ian Menzies; seated, Susan Clark and Janis Dale, a geography student who was working on an undergraduate thesis in the Bruce.



on the escarpment face and along the shoreline. These findings have important implications, for the development of the escarpment as a recreational area, particularly for the location of cottages.

The study was not only concerned with future implications, however. The team also assessed the impact of present cottage developments on vegetation, shoreline and the stability of the escarpment.

The study group, now back at the University preparing a report, spent their 10-

week Bruce sojourn in a cabin on the Bruce Trail overlooking Hope Bay. Lest anyone should be jealous, it should be pointed out that the cabin was not equipped with electricity or running water. Baths were taken in the beautiful but frigid waters of the bay, and drinking water was pumped from a well.

Members of the team were: team leader Ian Menzies and Joanne Lester, both '78 graduates; Craig Merkley and Dave Randall, entering seventh semester, and Susan Clark, entering fourth semester. □

Sensory Evaluation Workshop

"Sensory evaluation is a technique used to assess people's reactions to the flavour, texture or odor of food," says Professor T.A. Watts, one of four Consumer Studies faculty members who organized the sensory evaluation workshop held recently on campus.

Eighteen representatives from federal and provincial government and the food industry who are involved in fields of research, product development and quality assurance participated in the three-day workshop which began on Tuesday, 78 07 18. They explored basic procedures used for evaluating sensory characteristics of food products in particular, as well as techniques in statistical analysis and meaningful presentation of results to management.

"We worked with common food products including applesauce and cottage cheese and presented gradations in taste characteristics such as sweetness and sourness," explains Prof. Watts. "We then demonstrated different techniques for determining people's sensitivity to these gradations and involved the participants in test situations. Correct application of such evaluation techniques with trained panelists at the laboratory level can provide a useful method of assessing product characteristics and direction in the development of new products, or improvement of existing products," he adds. "Some branches of the food industry not already employing these methods are looking for guidance in establishing sensory evaluation panels."

Bees make good bees-ness

Honey provides the sweet taste of success for two University of Guelph students. Doug Colter who is finishing an M.Sc. in Apiculture and Don Couture, a seventh semester OAC student, both have beekeeping businesses. They were able to streamline their operations this summer with the aid of Venture Capital loans of \$1,000 from the provincial government.

The Venture Capital program, now in its fifth year, provides interest-free loans of up to \$1,000 to students wishing to run their own summer business. The loans which generally are used to set up a business, are due for repayment in October. However, in the case of the University of Guelph students, the loans were used for equipment for existing beekeeping operations.

Both students have had many years experience in beekeeping. Doug kept bees, while a university student in Victoria, B.C., and later for the B.C. Department of Agriculture; Don at his family's farm in Beeton and more recently in Grey County.

Don Couture expects close to nine tons of honey this year from his 200 hives in Beeton and Grey County. His loan was used in part to buy a chain uncapper for the removal of frame cappings prior to honey extraction. Most of Don's produce goes to a large retail chain store and ends up on the breakfast tables of the province.

Doug, a technician in the Department of Environmental Biology, has almost completed his M.Sc. work with Prof. R.W. Shuel. He has 40 colonies of bees in Fergus, Elmira and Alliston. Much of the 1½-2 ton harvest he expects from these hives will be sold by word of mouth, although he has a roadside stand at Alliston and sells some honey to health food stores. Doug also has a Newfoundland customer for almost 500 pounds of honey. Winters there are too cold for beekeeping.

Neither of the University of Guelph entrepreneurs anticipates any problems with loan repayments when the due date rolls 'round in October. Although it is too early to anticipate profits, both beekeepers should get a healthy return for their investment in time and money. □

Mrs. Nancy Simpson

Mrs. Nancy Simpson, chief cashier in the Bursar's office, died on Tuesday, 78 07 18. She had been with the Bursar's office since May, 1968 and became chief cashier in May of 1973. Funeral services were held in Guelph on 78 07 20 followed by burial in Pickering. Mrs. Simpson is survived by her husband, Tom, and by a sister and brother-in-law, Mr. and Mrs. Jack Coverley and a niece, Linda Coverley, who live in Pickering.

Tim Sullivan's photos win awards



"On the Beach," Tim Sullivan's double award winning entry.

Should anyone tell Audio Visual's Tim Sullivan to go paddle his canoe, he'd be only too happy to oblige. It's a handmade 16 foot cedar strip canoe, and it was the grand prize in a recent photography contest sponsored by the Federation of Ontario Naturalists. Tim paddles it with two handmade cherry paddles which he also won in the FON's Nature Photography Salon. On rainy days he can sit home and admire a cibachrome print of still another prize-winning entry. His three photo entries brought him four prizes.

"On the Beach", a black and white shot of a dead sea gull, won first prize in the category of "Man's Abuse of Nature" and also won the competition's grand prize. "Northern Dunes", shot on a deserted section of Sauble Beach, won first place in the black and white category, "Canadian Wilderness." In the color category for "Man's Abuse of Nature", Tim's slide called "Remnants of Man" brought home first prize. Both this shot and "On the Beach" were taken near Port Stanley.

Tim, who describes himself as a pictorial photographer, shot the prize-winning photos

with black and white infra-red film and printed them with a point light source enlarger. This is a technique Tim has perfected over the past year and half. It results in a more dramatic print, he explains. Infra-red film tends to darken the sky areas of a photo. It works well for landscape and still life shots, but shouldn't be used to photograph people, since the film picks up body heat and makes facial features too light.

Quite apart from the FON photo contest awards, Tim has also received a grant from the Ontario Arts Council to promote his own work over the next year. He plans to offer a 20-print collection of black and white photographs in a limited edition. Two portfolio sets will be archivally printed, framed and available for sale by the end of the year.

Does he have plans to enter other photo contests? No definite plans, says Tim, who hadn't entered his work in competition for several years. Then along came the FON Photographic Salon and he decided to enter "because I've always wanted a canoe." □

PERSONALS

For Sale — white captain's bed, telephone table, hair dryer and push lawn mower, 3718; Honda CB 125S motor cycle, excellent condition, 824-3439; Beatty 30 in. stove and refrigerator, Kenmore washer/spin dryer, GE dryer, good condition, 846-0163; sofa bed, 3314 or 824-1350 after 16:30; new Smith-Corona portable electric typewriter, Joan, 2171 or 824-3293; '72 Malibu 350 2-door sports coupe, 3216; Eureka Prince II vacuum cleaner, car-top carrier, play pen, jolly jumper, 822-3312; MGB sports car with hardtop, Norton 750 tourer motorcycle, 856-4413 (weekends); component stereo set (Rotel amplifier, 2 Schneider speakers, 20" by 12", PE3012 automatic turntable), Paul 824-8775; Bluebird van set with belts, 821-6491; B/W 20" TV, Minolta auto pack 600X, 2449; single and double beds, cribs, chests of drawers, desk, wall cabinets, sofa bed, lounge chairs, trestle table, cabinet, lamps, folding chairs, fridge, stove, wringer washer, shelves, 14 ft. fibreglas canoe, picnic table, step ladder, sewing machine, high stool, baby low chair, 822-1938; Holly Hobbie oven, wood headboard for double bed, TR-6 (1971), "Cecilian" piano, "Richie Rich" comic books, 658-9938.

Accommodation Available

For Rent — 2-bedroom apt. in house with garden, quiet street, furnished or unfurnished, from Sept. 1, 821-5982; furnished 3-bedroom house, garage, convenient location, Sept. 1978 to Aug. 1979, 3134 or 824-1895; 3-bedroom apt. from Sept. 1, 217 Gordon St.; 3-bedroom house to share with 2 women, close to campus, Aug. 1, 822-1734 (after 18:00); 3-bedroom townhouse, 1½ baths, near Stone Road Mall, for one year, 836-8608 (after 18:00).

Goods and Services Wanted — responsible couple seek inexpensive, clean place to live as soon as possible, 836-3282 (after 16:30); typist conversant with TSO/nscript to type thesis, Dennis Friesen, 2702; jars with lids, all sizes, will collect, Marilyn, 8375; to buy: step ladder 8 ft. or 9 ft., drapes or curtains, 824-4553 (evenings); ride needed from Cambridge (Galt) to University, 3767.

Services Available — morning vacancies for pre-schoolers in newly formed play group at Wellington Woods, organized indoor/outdoor activities with trained supervisor, 824-1364 or 821-8860.

University C^{Canada}

Norman E. Wagner has been appointed the new president and vice-chancellor of the University of Calgary. He is presently dean of graduate studies, director of university research and director of the WLU Press at Wilfrid Laurier University. He will commence his duties in September.

* * *

Five Ontario high school students are attending the summer school training program for mathematically gifted students at the University of Chicago as the result of a competition administered by Carleton University's mathematics department. The five include two students from Ottawa, two from Toronto and one from Sudbury. Associate professor of mathematics at Carleton, Irwin Pressman, in announcing the awards said, "This is an exceptionally talented and motivated group of students." The students are partially supported by a grant from the Ontario Ministry of Education.

* * *

A research team at the University of Waterloo, using funds from the federal government's International Development Research Centre, has developed a hand-operated, plastic water pump that can be used almost anywhere in the world. Simple to operate and simple to repair the pump can be built for less than \$100. In the past there were problems sending North American manufactured pumps, generally made of metal and constructed of a large number of parts, to certain countries because when they broke down there was no way to repair them, but the easily mendable new pump will get back into service in a hurry.

* * *

The Edward Johnson Building at the University of Toronto will host the annual International Clarinet Congress/Clinic, a first for Canada, from 78 08 07 to 78 08 11. Congress chairman, Professor Ezra Schabas, says the guest performers and speakers are "the world's *Who's Who* of the clarinet." The week's schedule will include lectures, master classes, recitals, discussions on acoustics and manufacture, and a clarinet competition.

* * *

Archaeologists at the University of Western Ontario will give the public a unique opportunity to view the reconstruction of a 450-year-old Neutral Indian village this summer. The village, called the Lawson Site, covers about five acres and was once the home of about 1,000 Iroquois-speaking Neutral Indians. The site is located near Highway 22, off Hutton Road on the outskirts of London.

Theatre Max

Battling the forces of such villains as the Keeper of the Nevermind and the Dude of Delusion is no easy task, but it might be achieved with the help of southern Ontario children. They will be joining Jon Fetch this summer on an unforgettable journey into the land of Nevermind, where the villains will be pursued in the realms of fun, laughter and mystery.

It all happens in a play called "Fetch the Bird Boy," the fifth in a series of original children's plays from the Guelph-based professional company, Theatre Max. Three years of touring has gained Theatre Max province-wide recognition for presenting enjoyable and enlightening entertainment for children and adults alike.

Theatre Max's summer troupe is comprised of University of Guelph students and graduates. The co-author and director of "Fetch" is Brad Carson, a '76 Drama graduate who was one of the three founders of the company. His fellow actors in this latest production are Martha Bailey and Cathy Morris, both students; Bob Munden, a graduate and Bill Stevens, a former Hotel and Food Administration student. The other Theatre Max members, all but one of whom were at one time associated with the University, are spend the summer months on two Indian reserves north of Kenora. They are working with four Indian actors in the creating, improvising, writing and producing of the full-length play: *Whitedog/Grassy Narrows*, which will begin a national tour in the fall.



Jon Fetch (Bill Stevens), encounters Nightmare (Bob Munden), in "Fetch, the Bird Boy," the latest Theatre Max summer presentation.

"The children's plays created by the company do not preach morals, but they are there to be found," says Brad. "A Smile is Just a Frown Upside Down" is the finishing song in "Fetch", a play which encourages a friendly response to life. "The Reluctant Maxine," which is now being written for a Christmas tour, asks the audience to help the magicians "Can" and "Do" in their fostering of Maxine's self confidence. "We gear our productions to an audience of five to 12 year olds," continues Brad, "but we try to write something for everyone. The response is just terrific."

"Fetch the Bird Boy" opened Tuesday 78 07 25 in Waterloo. It is partially sponsored by the Ontario Ministry of Culture and Recreation and is presented to the public free-of-charge. Future bookings have been arranged as follows: 78 08 08, Colborne and Campbell-

ford libraries, 13:30 and 19:00 respectively; 78 08 09, Trenton and Belleville libraries, 13:30 and 19:00; 78 08 10, Picton and Wellington libraries, 13:30 and 19:00; 78 08 11, Amhearstview and Kingston libraries, 13:30 and 19:00; 78 08 12, Port Hope and Cobourg libraries, 13:30 and 19:00 respectively; 78 08 15, Dundas library, 14:30; 78 08 16, Oakville library, 14:30; 78 08 17, Burlington library, 14:30; 78 08 18, Milton library, 14:00; 78 08 21, Terryberry library in Hamilton, 14:30; 78 08 22, Brantford library, 13:30; 78 08 23, Paris library, 14:30; 78 08 24, Ajax library, 14:00; 78 08 28, Ancaster library, 14:00; and 78 08 29, Halton Hills library, 14:00.

For more information please contact the Theatre Max office, Room 228 of the University Centre, or call 824-2714. □

AWARDS



Prof. J.W. Boyle, Department of History, chats with Nicholas Williams, a student named to the Dean's Honors List at a reception for these students held in June. Nicholas, who is majoring in history, is the son of Professor Terry Williams of the Department of Philosophy.



Mrs. Helga Hunter, widow of Professor Kip Hunter, presents the first Kip Hunter book prize to Phyllis McCurdy, a combined honors Philosophy and English student, at the College of Arts departmental awards ceremony.

Research on viral gastroenteritis

Ontario Veterinary College professor D.G. Butler's research on viral gastroenteritis in pigs could lead to more effective treatment for humans. Dr. Butler of Clinical Studies is working in collaboration with Dr. J.R. Hamilton and colleagues in the department of gastroenterology at the Hospital for Sick Children in Toronto.

They have recently discovered that a virus which infects the upper intestinal epithelium of infants acts in the same way as does Transmissible Gastro Enteritis (TGE) virus in baby pigs.

Dr. Butler explains that in the late 60's scientists had begun to suspect that all cases of infantile diarrhea could not be blamed on bacterial infections, particularly since bacterial pathogens were often absent from stools of children who had what appeared to be acute infectious diarrhea. By that time veterinarians had identified TGE virus as the cause of diarrhea in piglets and feeder pigs and suggested that it might be a suitable model for the study of infantile viral gastroenteritis.

In 1973 the Guelph professor completed a Ph.D. program at the Hospital for Sick Children. His study investigated the mechanisms by which the TGE virus caused diarrhea in piglets, and showed that the main problem was in the jejunum, the section of small intestine between the duodenum and the ileum. Dr. Butler found that the virus attacked the cells of the villi, the finger-like projections that aid in digestion, and disrupted normal patterns of absorption through the intestinal wall by damaging cells which were then replaced by functionally immature epithelial cells.

Dr. Butler explains that the virus invades the epithelial cells, multiplies and leaves the

cells in a matter of hours. At the time the diarrhea is most severe, about 24 hours after the onset of infection, the virus has virtually disappeared. For this reason stool samples to detect the presence of virus have to be collected at the first signs of diarrhea and even then problems can result. Chemicals in the stool quickly break down the virus if the sample is not examined immediately or frozen.

In the early 70's, the human rota virus was identified as a significant cause of infectious infantile gastroenteritis. This virus was administered experimentally to baby pigs and found to act the same way in piglets as the TGE virus. Dr. Butler would now like to know why these viruses attack only mature cells, a selectivity which is fortunate for the victims, as once the mature cells are destroyed the virus quickly leaves the body.

Relatively few researchers are working on the viral infections of the intestine, Dr. Butler says, although considerable work has been and is being done on bacterial gastroenteritis which includes agents such as *E. coli* and *Vibrio cholera*. The mechanisms by which bacteria cause diarrhea are distinctly different from the viruses studied to date, he says. Usually bacterial gastroenteritis, particularly in the early stages, can be successfully treated with oral doses of electrolyte solution combining glucose and amino acid with a salt solution to redress the chemical imbalance. This treatment has been a breakthrough in cholera treatment, providing cheap, effective oral therapy for a disease that is a major killer in the Third World.

However, the treatment may be less effective for viral diarrhea because the normal

glucose-stimulated absorption pattern has been disrupted by the viral infection. Dr. Butler and his colleagues feel research is necessary to determine the optimum amount of glucose which should be included in electrolyte solutions for the treatment of gastroenteritis of viral origin. Appropriate electrolyte therapy can have a dramatic effect on an animal which may regain sufficient "joie de vivre" to begin eating again, he says.

The work of the University of Guelph veterinarian is significant in the study of both human and animal disease. Pig farmers have much to gain from the prevention of TGE, as piglets under two weeks of age almost always die when infected. When it infects herds of intensively reared pigs, the disease can set back marketing by as much as a month.

This continuing study could lead to important strides in the treatment of babies. Infantile diarrhea strikes quickly and sometimes results in death from dehydration and acidosis. In case of acute diarrhea, Dr. Butler says that a baby can lose 10 per cent of its body weight and go into shock in a matter of hours.

This research project is one of many being carried out at the Ontario Veterinary College which have implications for human as well as animal medicine. □

JOB OPPORTUNITIES

Building Mechanic 1 or 2, Maintenance. (two positions) Job rate for Building Mechanic 1 \$6.23. Job rate for Building Mechanic 2 \$6.78. Probation rate \$.20 per hour lower than job rate.

Library Associate (Bibliographic Search), Library. Salary Range \$205.31 - \$294.09.

Laboratory Attendant, Biomedical Sciences, MTS II. \$169.49 - \$247.55.

Records Clerk, Office of the Registrar. Clerk 1. Salary Range \$141.84 - \$209.38.

Counselor/Therapist, Counselling and Student Resource Centre. Salary commensurate with qualifications and experience. Applications should be submitted to: Ms. E. Honegger, Co-ordinator Counselling, Counselling and Student Resource Centre, University of Guelph, Guelph, Ontario. N1G 2W1.

Connection Desk Clerk, part time, Provost's Office. Rate of Pay \$3.00 per hour.

Library Assistant I, (Circulation Section), Library. Salary Range \$132.95 - \$189.13.

Boiler Room Helper, Central Utilities, Physical Resources. Starting rate \$5.13. Three month job rate \$5.66.

Food Services. Head Cooks \$7.12 (after 3 months) Job Rate \$7.81. Assistant Cooks \$5.69 (after 3 months) Job Rate \$6.21. Head Cafeteria Helper \$5.28 (after 3 months) Job Rate \$5.76. Cooks \$6.14 (after 3 months) Job Rate \$6.73. Short Order Cook \$4.77 (after 3 months) Job Rate \$5.23. Send applications to Assistant Director, Food Service Department, University of Guelph, Room 203, Physics Annex, Guelph, Ontario. N1G 2W1.

Research Assistant, Department of Food Science, Grant Position. Apply to Prof. J.M. deMan, Department of Food Science.

For further information please see bulletin boards or call Ext. 3058 or 3059.



Graduate student Judi Bell and Clinical Studies professor D.G. Butler examine a section of calf gut which will be used in a gastroenteritis study.

Next Week at Guelph

THURSDAY, 78 08 03

Art Exhibit — PORTFOLIO, paintings and photographs by Kathie Novak, 13:00 to 21:00, McLaughlin Library Stoa (Campus Gallery), until 78 08 12.

TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Cable 8, CIDA-UNESCO WORKSHOP, 19:00.

FRIDAY, 78 08 04

Worship — MUSLIM JUMA PRAYERS, 12:30, UC 533.

TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Cable 8, CIDA-UNESCO WORKSHOP, 17:00.

MONDAY, 78 08 07

Examinations conclude.

TUESDAY, 78 08 08

Concert — CLASSICS TO POPS, weekly concert at Guelph Public Library by U

of G advanced music students, 19:30.

Conference — 4-H REGIONAL CONFERENCE, continues until 78 08 10, Addington Hall.

WEDNESDAY, 78 08 09

Worship — IMMANUEL FELLOWSHIP, 19:00, UC 335.

THURSDAY, 78 08 10

TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Cable 8, 19:00. Alan Watson, naturalist, in the J.C. TAYLOR NATURE CENTRE.

DATES TO REMEMBER:

78 08 11 — SPOTLIGHT ON UNIVERSITY OF GUELPH, Cable 8, 17:00. Alan Watson, naturalist, in the J.C. TAYLOR NATURE CENTRE.

78 08 16 — WEDNESDAY EVENING EXCURSION, 19:00, J.C. Taylor Nature Centre, Arboretum.

78 08 24 — SYRINX WOODWIND QUINTET, 12:00, Music Room 107, Arts.

BRIEFLY

BASEBALL, ANYONE — All staff members of level 4 and level 5 of the University Centre are invited to participate in a baseball game on the diamond by the south complex residence on 78 08 03 at 19:00. Knowledge of the game not essential. Game spirit is what counts.

CO-OP FUNDRAISING — The Campus Child Care Co-operative, located at the corner of University and Gordon Streets, has completed the first stage of a fundraising with a raffle on 78 07 28. Winning numbers were 1395, 1229 and 24. A second fundraising event, a Children's Jamboree, is scheduled for one afternoon in the fall. Spaces are now available at the centre for two-and-a-half to five-year-olds. Please

contact Susan Hardacre, at 822-1280, for more information.

LIBRARY HOURS — For the between-semester period the library hours will be as follows:

McLaughlin Library (from 78 08 08 to 78 09 07)

Monday to Thursday 08:30 — 21:00

Friday 08:30 — 19:00

Saturday, Sunday

and Labor Day 12:00 — 19:00

Normal semester hours will resume on 78 09 08.

Veterinary Science Division (78 08 08 to 78 09 04)

Monday to Friday 08:30 — 17:00

Saturday, Sunday

and Labor Day Closed

Normal semester hours will resume on 78 09 05.

HONORED AT RETIREMENT — The Department of Veterinary Microbiology and Immunology held a retirement luncheon at the end of June to honor Mrs. Peggy Busfield who has been employed at OVC since 1946. During that time she has served as secretary in the Dean's Office, secretary to the OVC Bursar and finally Administrative Assistant in the Department of Veterinary Microbiology and Immunology.



Pictured with her "party cake" is Mrs. Busfield and her husband, John, who retired in May as hospital administrator in the Department of Clinical Studies.



Margaret E. Bicker was feted on her retirement on 78 07 31 after over 26 years of service, the last 15 as secretary to Comptroller N.M. Sullivan. Pictured with Miss Bicker are Mr. Sullivan and, to the right of her, Betty Weiler and Susan Rigby.

guelph

UNIVERSITY NEWS BULLETIN

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.

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