



Hope to set precedent

Students and neighborhood work hand-in-hand in design of imaginative city play area

It all started with an amorphous dirt pile on Dakota Drive. In the last six weeks, fourth year Landscape Architecture students have transformed it into an imaginative play area, complete with fire pole, tricycle path, bridge, sand, cargo net, and logs. Word from the neighbourhood is that parents and children love it. The parents sneak over to the play area after dark.

The play area is in one corner of Dakota Park — a 4.2 acre grassy field which had earlier been provided with a slide and swings. When Professor Owen Scott suggested to the Board of Park Management that Landscape Architecture students could design and build a play ground, the Board suggested this location. Residents had asked the board to do something with that field (euphemistically called a park).

Last February, thirteen Landscape Architecture students plunged into the project. During their 6th semester, they drew up a design, made working drawings and cost estimates for the project and presented their plan to the Board. The Board approved the plan and allocated \$3,900 to carry out the construction.

Throughout the planning stages, the students met periodically with area residents (through their Committee for Neighbourhood Involvement). At these meetings, the students

determined the age groups of the children, their recreational needs and where the play area should be located within Dakota Park. They presented slides and drawings of playground equipment and listened to the reactions of parents. According to the students, this interaction is essential in planning a successful play area: "Each area has its own specific needs and ideas for open space and child play; only when the community takes an active role in the design can these social, physical, and functional requirements be implemented and provided for," they say in a report.

Community/student interaction didn't end there. This fall, students carried out the actual construction of the playground, aided by area residents and morally supported by the dozens of children who watched them in fascination. The city hired a bulldozer to put the proper contours on the original amorphous dirt pile. The students, through the business community, were able to get donations and discounts on materials and services like sand, sod, trees, hydro poles, lumber, a cargo net and asphalt.

In contrast to most playgrounds, the equipment is made out of cedar and can therefore be used year-round. (Have you ever tried climbing a steel jungle gym in the winter?)

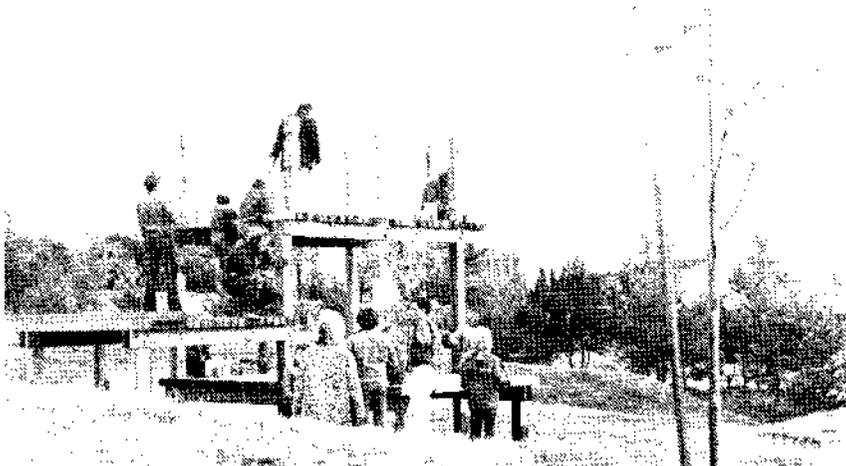
The students had to work hard to convince the Board that cedar would last as long as steel and would enable more imaginative designs. The structures were built by the students using the facilities in the engineering workshop, and then assembled on the site.

Even during construction, neighbourhood kids flocked to the play area. The traditional slide and swings in Dakota Park now sit idle. The play area was completed last week except the tricycle path which will be asphalted within a few weeks.

Judged in terms of popularity with children, Dakota Park play area is a resounding success. Because area residents actively participated in its design and construction, they will take a more active interest in its maintenance. Only time will tell whether the play area is a success in the eyes of the Board of Park Management in terms of durability and economy of maintenance.

For Landscape Architecture students, this is a positive step away from drafting table plans that seldom get implemented. They have had a chance to test their designs, work with materials and interact with "clients."

The students hope this project will set a precedent for future cooperative ventures with such communities as the City of Guelph.



Landscape Architecture students build jungle gym



Playground equipment has imagination

Graduate Studies survey

23 out of 28 Ph.D. graduates have jobs

A survey of Ph.D. graduates from the University of Guelph shows that, out of 28 students graduating between October 1970 and May 1971, 23 were employed by early June.

The survey, conducted by the University's Faculty of Graduate Studies, indicates that they were employed as follows: seven held post-doctoral fellowships, six were engaged in teaching at the university level (two within Canada, and four in other countries), three were working in industry (two of them outside Canada), two were engaged with Ontario government agencies, and five were employed in other lines of work, such as teaching at the community college level (three of these within and two outside Canada).

Of the remaining five, one held a student visa, which prohibited him from accepting work in Canada, and four were unemployed. One of these four was a Canadian, and the three others were landed immigrants.

However, these figures have a limited validity in that they were gathered so soon after the May convocation, notes Dean H. S. Armstrong of the Faculty of Graduate Studies. For Ph.D. graduates, it is relatively difficult to obtain an adequate position in a few weeks. They normally anticipate a larger

period of job hunting than do graduates at a lower level. And graduates accepting post-doctoral fellowships must at some later date seek another form of employment. Thus a survey taken three years after graduation would better reveal what sort of permanent employment Ph.D. graduates had found.

Of the 28 Ph.D. degrees granted over the year, 11 were in the health sciences, nine in the life sciences, six in the physical sciences, and two in the humanities (specifically, in history).

Flying Club News

The University of Guelph Flying Club offers a Ground School course on Thursday evenings 7 p.m. — 10 p.m. in Arts, 234.

Contact Johanna Vanderspek for more information. 742-0119 in Waterloo.

Canadian Crossroads International
 Applications available
 Room 160, Johnston Hall

*Applications due by
 November 1*

University pays taxes on time

Yes, the University of Guelph, just like the city's homeowners, must pay its taxes. A cheque for \$217,595 was recently presented by the University to the City of Guelph. This represents the provincial tax grant for 1971, based on the rate of \$35 per student. Legislation was enacted recently, under Bill 136, to amend the Municipal Act so that under specified conditions the amount of municipal taxation which can be levied was increased from \$25 to \$35 per annum for each full-time student enrolled.

Fine Art has new teachers

Four new faculty members, two art historians and two studio teachers, have recently joined the Fine Art Department.

Dr. Helen Dow came from the University of Alberta where she had taught History of Art for five years. Dr. Dow is a graduate of the University of Toronto and Bryn Mawr College, Pennsylvania. She has a double specialization in mediaeval art and modern art. Her publications include a book on *The Sculptures of Winchester* and articles on Van Gogh, the English Renaissance and Alex Colville. She is at present writing a book on Alex Colville. Other current interests are Mondrian and the English Sexpartite Vault.

Mr. Roald Nasgaard also represents a strengthening of Fine Art offerings in the modern period. He comes after graduate work at New York University where he did research on J. F. Willumsen, the late nineteenth century Danish painter involved with the Pont-Aven group in France. Mr. Nasgaard was born in Denmark and now holds Canadian citizenship.

Professor Jeffrey Poklen, a sculptor and a painter, is a graduate of Santa Barbara and Cornell Universities. He taught for several years in Canada, first at the University of Saskatchewan, Regina Campus, and later at Mount Allison University, before returning

to Cornell as Assistant Professor and Visiting Critic of Art. He has exhibited widely in major galleries across the North American continent, both in Canada and the United States. Members of the University can see two recent examples of Professor Poklen's work at present on display at the Faculty Club.

Mr. Allyn Lite is a graduate of the University of Michigan and took an M.F.A. at Rutgers University. Since graduation in 1968, he has taught at universities in the States and for over a year worked with another artist and a laser physicist producing holograms under the name of Editions Inc. at Ann Arbor. An exhibition at Finch College Art Museum in New York, N-Dimensional Space, which ran from April to June 1970 was produced entirely by this firm, some from their own design and others on commission for other artists. Holograms by Allyn Lite have been shown widely in galleries and museums in America and have received considerable attention in the press. Allyn Lite's other interests include painting and sculpture in more familiar materials and, more recently, in the creative use of video tape. He is at present making extensive use of video tape in a course for senior Fine Art students.



The College Women's Club held a successful membership tea recently at the home of Dr. and Mrs. W. C. Winegard. New members were welcomed and chairmen of the various interest groups registered members for the 1971-72 season. Mrs. R. H. Ozburn is shown pouring tea during the afternoon, standing from left, Mrs. C. B. Kelly, co-convener of the tea, Mrs. Winegard, Mrs. S. H. Lane, also a co-convener, and Mrs. J. D. Milliken, president of the Club.

The News Bulletin is published every Thursday by the University of Guelph's Department of Information. News items must reach the editor, Mrs. Betty Keeling, at the Information office, Room 36, McLaughlin Library (Ext. 3863) by noon Friday. Articles and news items may be quoted or reproduced in full.



Dr. Helen Dow Mr. Ronald Nasgaard Prof. Jeffrey Poklen Mr. Allyn Lite

1.9 million project

Research animals to get new home

Wanted. A new home for 700 rabbits, 2,000 mice, 500 guinea pigs, 100 cats, 150 dogs, 1,000 rats, 200 hamsters, 1,000 chicks, 200 turkeys, 60 pigs, 30 calves, 30 sheep, 1,000 frogs, 10 goats, 60 turtles and 20 primates.

Presently housed in eight substandard buildings, the University of Guelph's research animals desperately need a new home — and they are going to get it. A \$1.9 million Laboratory Animal building has been approved by the University's Board of Governors to replace a number of separate, ill-suited smaller buildings in which the laboratory animals are presently housed.

To be located west of the Ontario Department of Agriculture and Food's Veterinary Services Branch building and south of the Clinical Research and Swine Clinic buildings, the Animal Laboratory facility has been needed for some time.

"Experimental work has become so sophisticated and certain procedures so critical," says Dr. D. G. Ingram, associate dean of research of OVC, "that improved and more modern animal housing facilities are mandatory."

But the new Laboratory Animal building is just part of the story. In 1969, the Ontario Veterinary College underwent a massive re-organization in an effort to provide the most efficient and up-to-date teaching and research programs in veterinary medicine and public health. Since that time, it has become obvious

that many of the physical facilities required renovations or other changes to bring the entire OVC physical plant into line with the new academic organization.

One such change resulted in the Avian Pathology building's becoming the new home of the Department of Veterinary Microbiology and Immunology.

Other projects are planned for the OVC. The alterations presently underway to existing buildings will be completed next year; a veterinary field station is scheduled to open at the same time as the Animal building, September, 1973; extension to the Veterinary Microbiology and Immunology building should be completed in September 1974; the fall of 1975 will see completion of a Pathology building; and the next year renovations the OVC Main building will be completed.

OVC at Detroit metal show

An exhibit from the Ontario Veterinary College will be on display in Detroit, October 18-21 as part of the 1971 Metal Show, sponsored by the American Society for Metals. The exhibit, prepared in cooperation with Smith Kline Surgical Specialties, illustrates the use of stainless steel and Vitallium in the management of fracture problems.

Jim Ashman heads student government

Jim Ashman has been elected chairman of the Committee of College Presidents, the official student government on campus. This is a new position in line with suggested constitutional changes of the CCP. Previously the committee appointed its own chairman. Mr. Ashman was chosen in a recent campus-wide election.

Mr. Ashman, who has completed six semesters in the D.V.M. program, was chairman of Winter Carnival '71, and Orientation '71. He is the editor of the Factory Manual and is a past campus editor of Dream Magazine.

Japanese group studies meat processing techniques

Twenty representatives from ten different meat processing organizations in Japan were on campus to study the research program in Meat Science. These people are all members of the Japan Ham and Sausage Processors Cooperative Association and are on a tour of Canada to study meat processing techniques. Dr. J. C. Rennie and Dr. W. A. Gillis of the Department of Animal and Poultry Science showed the visiting delegation the teaching and research facilities in the Department of Animal & Poultry Science and discussed with them the program in the Meat Science area. The delegates were particularly interested in the work that is being done at the University of Guelph in the area of meat grading.

Creel-lair has thriving business

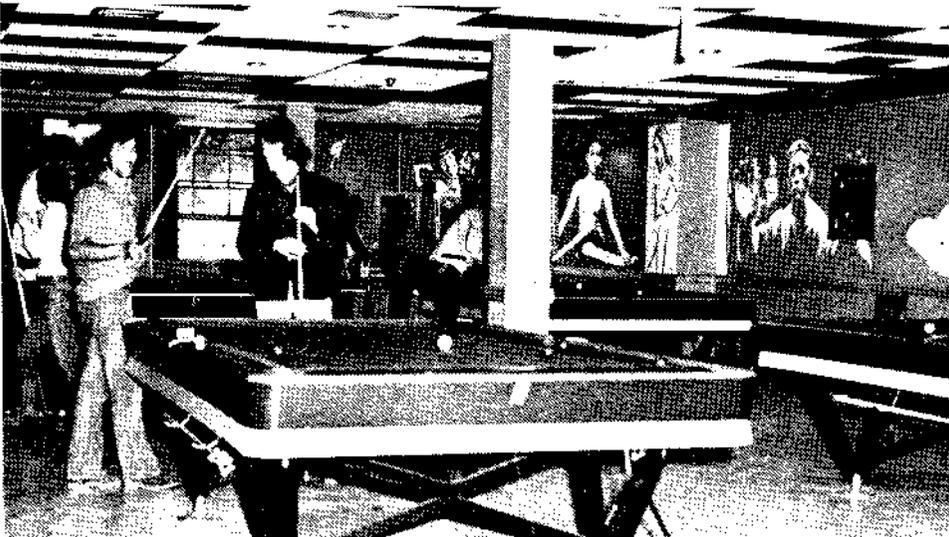
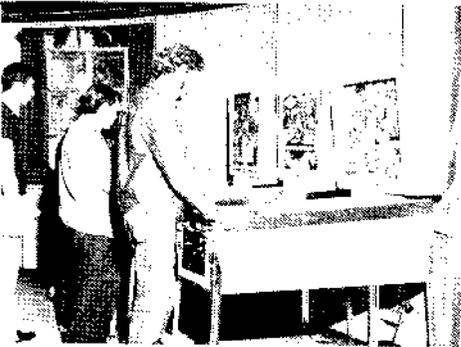
One recent addition to the University's athletic facilities, the Creel-lair games room, is, at the end of its first month of operations, doing a thriving business. Daily from 10 a.m. to midnight, and on weekends from 11 a.m. to midnight, the room reverberates with the sound of sport — the clatter of billiard balls, the

tramp of young athletes back and forth across the floor, the rattle of pin-ball machines ...

Creel-lair the former setting for the campus pub, is sponsored by the student government (the Committee of College Presidents) and managed by students Dave Truman and Gary Hale. It now boasts six pool tables and three pin-ball machines (the machines were formerly on the top floor of Massey Hall). An additional pool table and a shuffleboard set are expected shortly.

Rates for playing billiards range from 60 cents an hour for a single individual to \$1.50 for a group of four or more. Profits from the enterprise go to the Committee of College Presidents.

Creel-lair is relatively spacious and well-lit, and has been playing much of the time to a sell-out crowd. Most of the time all tables are being used, and at its busiest there a few people waiting to play, says Mr. Hale. But when there's a dance on, a film being shown, or a football game, things slow down at Creel-lair. In fact, he says, you can almost gauge what's going on around the campus by attendance at the games room.



Very simple to play

In 1970 a Cambridge mathematician, John Horton Conway, invented a new game called: "LIFE" (see *Scientific American*, October 1970).

The idea of such a game was not new; there being several forerunners of the game. However, the rules for the game were new.

The "LIFE" game, while exceedingly simple to play, has some very interesting implications, and often has surprising consequences. The game conceives of life in its basic components of BIRTH, SURVIVAL, and DEATH, and is played in a 2-dimensional Universe.

It may be possible to draw certain parallels between the "LIFE" forms (cellular automata) generated by the game and real life processes. However, it is also clear that Conway's rules do not in fact describe the behaviour of most real life forms. It was with this latter end in mind that a new set of rules was formulated. These new rules have been named the GULEPH RULES.

LIFE by Cambridge Rules and by Guelph Rules

The game can be conveniently played on any relatively large matrix of squares (e.g., 24 x 24), using coloured counters.

CAMBRIDGE RULES (i.e., Conway's rules) are as follows:

BIRTH: Each empty square with exactly three cells (counters) adjacent to it will give birth.

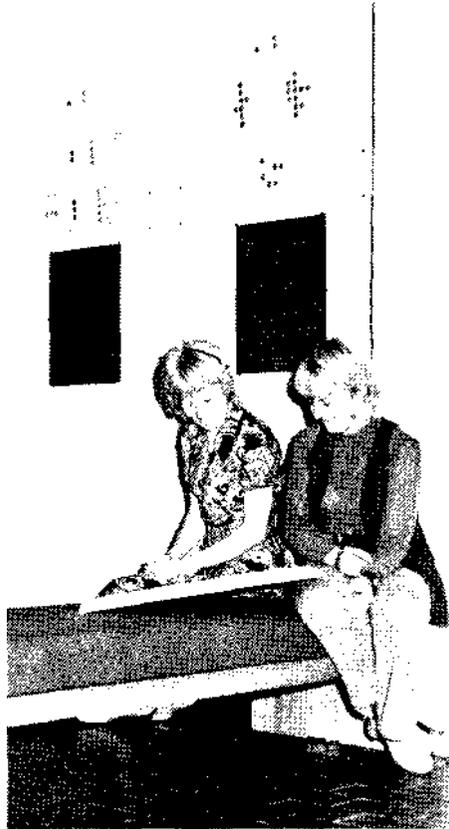
SURVIVAL: Each cell with two or three adjacent cells will survive.

DEATH: Each cell on its own, or with only one neighbour, will die of isolation. Each cell with four or more neighbours will die of overpopulation.

The GUELPH RULES, while superficially similar, are conceptually different in that they are based upon the premise that, for simple life forms, birth and death should only be a consequence of the availability of space (other limiting parameters can be introduced and made formally equivalent to space, but this is just a variation of the same rule). Thus, a birth occurs when there is sufficient space and a death occurs when there is insufficient space. In any single generation, a given cell can reproduce one, and only one, daughter cell. Reproduction is by binary fission and is directional (only orthogonal growth is permitted). Rules for survival are redundant since only two of the three characteristics of real life, birth, survival, and death can be independent variables.

BIRTH: If a space which is orthogonally

'Life' is a Game



Dr. Denis Kidby, Department of Microbiology, who has developed the Life Game is helped by, left, Anne Harrison, a graduate student in Microbiology, and Joan Mathers, his lab assistant. The girls are shown with examples of the Game which are on display in the north corridor of the Arts building.

adjacent to a cell has five or more adjacent (orthogonal or diagonal) empty spaces, a new cell is born in that space.

Where alternative directions of growth are possible, a choice between these must be made (this problem is a consequence of the rule that there can only be one daughter cell per parent cell per generation). In practice, this choice is easily made. *The new cell is born on the least crowded side.* Where populations of different cells are grown together, other consistent treatment of choices must be made. Again, in practice, this is not as formidable a problem as it at first appears.

The basic rule of birth is simple: A BIRTH

REQUIRES FIVE OR MORE ADJACENT SPACES.

DEATH: If a cell is adjacent to three or fewer empty spaces, it dies from overcrowding. No further qualifications are necessary.

The only death rule is simple: A DEATH REQUIRES THREE OR FEWER ADJACENT SPACES.

The above GUELPH RULES are summarized as: THE (THREE, FIVE) RULE.

"Organisms" grown by these rules are called "Guelves" (singular, "Guef").

Mutant Organisms

One of the most interesting applications of the game is the study of mutant cells. Within the context of the game, a "MUTANT" cell is a cell for which the rules governing birth and/or death have changed. For example, a cell which will reproduce itself under crowded conditions (where only four, rather than five, adjacent spaces are required for birth) is a (three, four) RULE cell and may be considered to be a "MUTANT" of the "NORMAL" (three, five) RULE cell.

A "DOUBLE MUTATION" can produce a (two, four) RULE cell. This particular "MUTANT" has been named "CANCER CELL".

The reader might care to examine the growth pattern of this cell type, starting from a single cell. This exercise may be of particular interest if it is performed in the presence of "NORMAL" (three, five) cells.

Playing the Game

Try the (three, five) RULE first, starting with a single "PARENT" cell. Use orange counters.

Identify the cells which must DIE by placing a purple counter on top of them.

Identify the spaces in which a BIRTH will occur by placing a purple counter in them.

CHECK that you have identified all BIRTHS and DEATHS.

Remove the DEAD cells and substitute orange counters for the purple counters in the BIRTH spaces.

You have now completed a generation.

The greatest challenge is in applying the game to real life situations which can be defined in terms of BIRTH and DEATH characteristics.

I would be most interested to hear any new ideas.

Dr. D. K. Kidby is an Assistant Professor in the Department of Microbiology.

European meat researchers to hold conference here

The Meat Researchers Conference (European) will be held in 1972 at the University of Guelph. Dr. W. R. Osborne, Department of Animal

and Poultry Science, who has just returned from the 1971 Conference of this group held at the Meat Research Institute, Bristol, England, confirmed this after his return to campus.

The invitation to this group of scientists was extended by the University several months ago and Dr. Osborne spoke to it while at the Bristol meeting. The 1972 Conference will

be unique in that it will be the first time in 18 years that the Conference has been held outside of the European community. The University of Guelph in co-operation with the meat packing industry and livestock organizations in Ontario will be responsible for staging the Conference and for several post conference tours.

FACULTY ACTIVITIES

Dr. **W. H. A. Wilde**, Environmental Biology, gave an illustrated talk on, Integrated control of orchard insects in Ontario, to the Toronto Branch of the Ontario Institute of Agrolologists of a meeting held at the Chudleigh Apple Farm, Milton.

Dr. F. L. McEwen, Dr. C. M. Switzer, Professor H. W. Goble and Professor C. B. Kelly, Environmental Biology, attended sessions of the Ontario Department of Agriculture and Food Pesticide Committee, held in Guelph.

Dr. E. C. Loughheed, Dr. G. Lumis, Dr. M. A. Nichols and Dr. I. L. Nonnecke, Horticultural Science, attended the 68th annual conference of the American Society for Horticultural Science held at Kansas State University. Dr. Nichols presented two papers: Plant spacing studies with vegetables, and Growth studies with lettuce.

Dr. Elizabeth **Waterston**, English, represented the Association of Canadian Teachers of English at a seminar convened in Toronto by the Commission on the Rationalization of University Research. She also spoke recently in Clinton at the annual convention of the Woman's Institutes of Elgin, Middlesex, Oxford, Huron West and South, and Perth South.

Mrs. **I. Matthews**, Languages, presented a paper at the annual fall meeting of the Russian subsection of the Ontario Modern Language Teachers Association at the University of Ottawa. The title of her talk was A theme: the struggle for survival in Solzhenitsyn's one day in the life of Ivan Denisovich.

Professor Frederick Vaughan, Professor John Carson and Professor George Carter, Political Studies, attended the annual meeting of the American Political Science Association at Chicago.

Professor P. W. Burke, Environmental Biology, attended a meeting at Toronto of the Carousel of Food Committee of the Royal Agricultural Winter Fair.

Dr. D. A. Barnum, Veterinary Microbiology & Immunology, and **Dr. D. C. Jordan**, Microbiology, were speakers at a symposium on Changing patterns of infectious diseases of animals and man held by two branches of the Canadian Society of Microbiologists. Dr. Barnum spoke on Infectious disease of animals and Dr. Jordan on Mechanisms of microbial resistance to antimicrobial agents.

Professor **J. F. Gerrath**, Botany, recently gave a course on the Biology of Algae at the summer session of the University of British Columbia. While in British Columbia Dr. Gerrath also made marine and freshwater collections on Vancouver Island.

Professor **P. A. Wright** and Professor **R. S. Rodd**, Agricultural Economics & Extension Education, attended the meeting of the Ontario Economics Council. The purpose of the meeting was to discuss means of establishing closer relationships in the area of research between the Council and professional economists.

Dr. C. K. Roe, Clinical Studies, recently visited veterinary groups throughout the North and South Islands of New Zealand. He participated in several refresher courses dealing with disease problems associated with intensive rearing of swine.

Professor **J. R. Wright**, Landscape Architecture was the keynote speaker at the Federal-Provincial Parks Conference held at Brudenell P.E.I. The paper was entitled Resource-oriented parks: The next few years.

Dr. John King-Farlow, Philosophy, recently attended a meeting of the Canadian Philosophical Association's Executive in Ottawa to determine measures regarding the status and future of the profession, and a meeting of representatives of the Canadian Learned Societies with the Canadian Humanities Research Council at McGill University, Montreal.

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Derbyshire, J. B., 1971. Microbial Diseases and Animal productivity. Symposium 21 - Soc. of Gen. Micro. Cambridge Un. Press: 125-147. (Department of Veterinary Microbiology & Immunology)

Odegard, D., 1971. Berkeley and the Perception of Ideas. *Canadian Journal of Philosophy*. 2: 155-171. (Philosophy)

King-Farlow, J., 1971. Poet's Song. *Religio Humanism*. 3: 104. (Philosophy)

PERSONALS

Dr. F. M. Bristol, Clinical Studies, recently spoke at the Manitoba Veterinary Convention, Brandon, Manitoba on Infertility problems in domestic animals.

Dr. J. Thorsen, Veterinary Microbiology & Immunology was an invited speaker in a post graduate course in Enteric Diseases of Swine at the University of Illinois. Dr. Thorsen spoke on T.G.E. — epidemiology, diagnosis, immunization and control.

Professor **J. F. Gerrath**, Botany, was invited to participate in the First International Desmid Symposium in Bieber, West Germany. Arranged by the Senkenbergische Naturforschende Gesellschaft (Frankfurt) and the Institut für Allgemeine Botanik (Hamburg), the symposium attracted over 20 phycologists from eight countries. Dr. Gerrath presented a paper on the ultrastructure of this group of algae.

Dr. C. A. O. van Nieuwenhuijze, Agricultural Economics & Extension Education, attended the 25th Anniversary Conference of the Middle East Institute in Washington, D.C. October 1-2. The six sessions of the conference dealt with current affairs in the Middle East under the headings The Legacy of the Modern Historical Era; The Monarchies: The Record of the Traditionalist Societies; The Struggle for Elected Democracy; Marxism in the Middle East: Ideology and Reality; Twenty Years of Soviet Ideological Impact; and Socialist Arab Regimes of Today.

Dr. John Powell, Director, School of Physical Education, has been elected secretary of the newly formed National Association of Deans, Directors and Chairmen of Faculties, Schools and Departments of Physical Education. Dr. Powell will represent the Association at the forthcoming meetings of the AUCC in Ottawa.

Mr. R. R. Gingerich, Mr. C. Schulte and Dr. J. L. Campbell, Physics, members of the positron and nuclear techniques group of the Department, attended the Second International Conference on Positron Annihilation at Queen's University. Papers presented were entitled: Vacancies in brass studied by positron trapping, by I. K. MacKenzie, R. R. Gingerich, and S. M. Kim: and Positron trapping in layered media, by I. K. MacKenzie. Dr. MacKenzie was unable to attend the conference as he is currently on leave in the United Kingdom.

Dr. J. R. Geraci, Zoology, served on the Canadian Council on Animal Care assessment panels for Dalhousie University, Halifax, and Memorial University in St. Johns, Nfld. The Council is charged with assessing and upgrading animal-holding facilities to a uniform optimal standard throughout Canada. The executive director of the Council is Dr. J. P. W. Gilman, Biomedical Science, OVC.

Dr. C. R. Ellis, Entomology and Apiculture, attended the eighth North Eastern Alfalfa Insects Conference, University of Maryland, where he presented a paper entitled, Distribution of alfalfa weevil parasites, *Bathyplectes curculionis* and *Tetrastichus incertus* in south western Ontario. Dr. Ellis also visited the Entomology Research Division, Agriculture Research Service, U.S.D.A., Beltsville, Md.

Dr. J. Thorsen, Veterinary Microbiology & Immunology, is leaving the University on a two year leave of absence to take up an appointment in Africa. Dr. Thorsen has been appointed on a 24 month contract as Assistant Director of Veterinary Services (Research) in Kenya, under the auspices of the British Overseas Development Administration.

Dr. F. J. Milne, Clinical Studies, recently visited England as guest speaker for the British Equine Veterinary Association's Annual Congress in Bristol. Being president of the American Association of Equine Practitioners, Dr. Milne delivered the main toast at dinner. During his visit, he examined thoroughbred horses at Epsom and Newmarket and also some of the horses at the Royal Mews in connection with his research project on horses' hooves. Dr. Milne also attended a conference for Veterinarians recently, at Purdue University, Indiana to give four seminars on the Treatment and Prevention of Common Lameness in the Equine.

Dr. W. B. Singleton, Clinical Studies, recently arrived from London, England, as Visiting Professor. Since his arrival, Dr. Singleton has spoken at the Schofield Memorial Lecture on the Role of the Small Animal Practitioner in Urban Society; was guest speaker at the C.V.S.A. Awards Banquet on the subject of Ear Cropping and gave a three hour seminar on Epiphyseal and Stifle Abnormalities, at the recent A.A.H.A. Ontario Regional Meeting.

Dr. J. L. Campbell, Physics, attended the second symposium on Semiconductor Detectors for Nuclear Radiation, held at the Technical University of Munich, Germany. Dr. Campbell presented two papers: Efficiency calibration of semiconductor X-ray detectors, and The use of the single escape peak in Ge(Li) spectroscopy, co-authored by L. A. McNelles and I. K. MacKenzie.

Dr. I. L. Nonnecke, Horticultural Science, recently attended the three day National Carrott Conference held at Michigan State University, East Lansing, Michigan.

Dr. D. R. Arnott, Food Science, was moderator of a panel discussion on the Policy of the Milk Marketing Board and Ontario Milk Commission at a recent meeting of the Waterloo County Dairy Club in Waterloo.

FOR SALE

Dunlop radial tires, 824-5299; Alpine skiffs, ski poles, ski boots, P.A. amplifier, car radio, 823-2869; Girl's bicycle, electric range, gas dryer, 822-7572; Buick convertible, maple bunk beds, 843-2707; Make-up mirror, Box 118, Johnston Hall; '70 Triumph 650, 821-6816; '69 Fairlane 500, 821-3658; Panel drapes, 7' by 42", 821-7692; 2 snow tires with rims, 1 new belted tire, 822-4617; 3 piece red maple bedroom suite, 824-9804; Thistle baby carriage, 821-4518; P.A. amplifier, microphone stand, 823-2869; Phillips tape recorder, seabreeze phono, 824-1834; Pool table, billiard and pool balls, cues, 822-8458; Judo suit, 821-0175; Stereo with detached speakers, 821-9815; Secretarial type desk, Lloyds stroller, garden tractor, 846-9786; Man's bicycle, 821-5880; '67 Volks, Ext. 2626; '63 Acadian, Ext. 2631; Snow tires, 824-8492; Banya Indian Drum, photo tripod, wrought iron ice cream table, 4 chairs, '63 220 SEB Mercedes Benz, lady's ski boots, 7/, electric generator, Polaroid land camera, Heuer stopwatch (for rallying, etc.), Minox B. camera, Tandberg 3 speed stereo tape recorder, Robins magnetic bulk taperser, hi-fi audio microphones, P.M.L. Swedish micro-miniature microphone, Beyer earphones for stereo, Electrospatic earphones, Marantz model 9 basic amplifiers, telescope, automatic antenna rotator, telescoping T.V. tower, assorted tables, beds, household, articles, transistor, record player, fire extinguisher, camp heater, snowmobile boots, size 9, Ext. 3511; '68 Beaumont, 824-0625; '68 Javelin-SST, 821-3628; Baby carriage, three sweaters, large size, 824-5119; twin beds, vacuum cleaner, 821-1736; '68 Dodge Dart, portable electric typewriter, 824-1684.

HOUSING

Females to share 2 bedroom furnished apartment, 821-3132; 3 bedroom house for sale, furnished, December 15, Ext. 3992; Townhouse for rent — 3 bedroom, 1 1/2 baths, 823-2737; Wanted — garage for winter, Dennis at 822-9051; Girl to share apartment, 823-2182; House, call Toronto 636-8486 or 889-5077; 2 bedroom house at Everton, Ext. 2619.

MISCELLANEOUS

Used accordion case wanted, 821-5777; Kittens for free, Ext. 2286; Ride to and from Kitchener, Betsy, Ext. 2749; Driver for alternate turns in driving to and from Kitchener, Jake at Ext. 3307; Student typing available, 823-2869; Snowbike trailer wanted, 821-4226; Registered nurse available, will baby sit babies or pre-school children in own home, 824-3542; Babysitting in own home, Neeve area, 822-6971; Babysitting in own home, Alma area, 823-1898; Wanted to buy an adding machine and 3 drawer filing cabinet, 822-3832; Wanted to buy a guide uniform, 821-6574; Kittens for free, Ext. 3561; Found, Siamese female cat, 824-0906; Found — a sum of money. Upon proper identification the money may be claimed at Room 040, Arts building.

GRANTS

Dr. R. A. Barrell, Languages, has received advice that he has been awarded a Canada Council Research Grant in the amount of \$1200 to study for six weeks in England and France. This is the second award Dr. Barrell has received for his present research on Horace Walpole and France.

NEXT WEEK AT GUELPH

THURSDAY, OCTOBER 21

- Meeting** GRADUATE CHRISTIAN FELLOWSHIP. Speaker: Dr. Merrill G. Tenney, dean emeritus of the Graduate School of Wheaton College, Illinois. Topic: The Authority of the Word of God. 8 p.m. Room 107, Music Room, Arts.
- Workshop** APL WORKSHOP, sponsored by the Institute of Computer Science. 7:30 p.m. Room 212 of the Institute.
- Art** HENRY MOORE, an exhibit of sculptures and prints by Henry Moore and photographs of his work on loan from the British Council. Continues to November 14 in McLaughlin Library.

FRIDAY, OCTOBER 22

- Seminar** RECENT ADVANCES IN CLASSIFICATION AND USE OF ORGANIC SOILS, by Dr. C. J. Acton and Professor D. W. Hoffman, 3:10 p.m. Room 229, Land Resource Science.
- T.V.** SPOTLIGHT ON UNIVERSITY OF GUELPH. Cable 8 at 7 p.m.
- Symposium** SOUTHEAST ASIAN STUDIES. Panels and business meetings in Room 316, Arts, and the lecture by Dr. A. J. Becker, on Traditional Theatre and Modern Politics in Indonesia at 8 p.m. in Music Room 107, Arts. (The program continues Saturday, October 22 — see October 14 issue of the News Bulletin for complete program)
- Film** THE GOLDEN COACH and OCCURANCE AT OWL CREEK BRIDGE. Guelph Free Film Theatre. 8 p.m. Room 105, Physical Science. Admission free.
- Seminar** INTENSITY CORRELATION SPECTROSCOPY: ITS APPLICATION TO CRITICAL SCATTERING IN FLUIDS AND BIOLOGICAL PROBLEMS, by Dr. Sow-Hsin Chen, Massachusetts Institute of Technology. 4 p.m. Room 113, Physical Science.

SATURDAY, OCTOBER 23

- Sports** FOOTBALL — GUELPH AT MCMASTER. 2 p.m. Broadcast on CJOY-AM, Dial 1460.
- Worship** ANGLICAN EUCHARIST. 9:30 a.m. 9th floor lounge, Arts.
- Worship** R.C. MASS. 11 a.m. War Memorial Lounge.
- Film** LOVERS AND OTHER STRANGERS. 7 & 9:15 p.m. War Memorial Hall. Free with Impact Card.

MONDAY, OCTOBER 25

- Course** INTRODUCTION TO APL. 5 afternoons a week starting at 1 p.m. Instructor: Mary Lib Gibson. Room 212, Institute of Computer Science building. Ext. 3701 for further information.
- Seminar** SOME DIFFERENCES IN THE ENERGETICS OF ANIMALS, by Dr. J. T. Reid, Professor of Animal Nutrition, Cornell University. 12 noon. Room 141, Animal Science.
- Lectures** GREAT RECENT PHILOSOPHERS. Topic: Nietzsche. Speaker: J. Amstutz. 8 p.m. 8th floor lounge, Arts. \$1.50 for adults and 50¢ for students.

WEDNESDAY, OCTOBER 27

- Meeting** ENGINEERING SOCIETY. Topic: The roles of the Association of Professional Engineers of Ontario and the Engineering Institute of Canada as they apply to engineering undergraduates. Speakers: Dr. W. Bilanski, President, A.P.E.O., and Professor F. Theakston, student advisor, E.I.C. 7 p.m. 8th floor lounge, Arts.
- Radio** ANALYSIS. News and comment from the University of Guelph. CJOY-FM, 106.1. 7 p.m.

THURSDAY, OCTOBER 28

- T.V.** SPOTLIGHT ON UNIVERSITY OF GUELPH. Cable 8 at 2, 5:30 and 7 p.m.
- Course** INTRODUCTION TO U. OF G. COMPUTER SERVICES. Instructor: Courtenay Bournon. 7:30 p.m. ICS building. Ext. 3701 for further information.
- Bridge** UNIVERSITY OF GUELPH DUPLICATE BRIDGE CLUB. 7:30 p.m. 8th floor lounge, Arts. Entry fee, 75¢.
- Noon Hour** HEARING THE MUSIC AND SEEING THE ARTS IN MAINLAND CHINA. Professor Nicholas Goldschmidt. 12:10 to 1:10. Music Room 107, Arts.
- Seminar** CONTROLLED ENVIRONMENTS FOR PLANT GROWTH, by Dr. Donald T. Krizek, Plant Physiologist, Phytoengineering Laboratory, U.S.D.A., Beltsville, Maryland. 4 p.m. Room 121, Crop Science.
- Meeting** INTERVARSITY CHRISTIAN FELLOWSHIP. Missions night. 7:30 p.m. 9th floor lounge, Arts. All welcome.
- Lecture** PROBLEMS IN THE HISTORY OF IDEAS IN CANADA BEFORE CONFEDERATION, by Professor S. F. Wise, Director, Directorate of History, Department of National Defence, Ottawa. 2 p.m., Room 121, Arts. All welcome.
- Social** OPEN HOUSE WINE AND CHEESE PARTY. 8:00 p.m. at Newman Centre, 325 Gordon Street. All students and faculty are invited.



Moliere's comedy presented in French

Le Bourgeois Gentilhomme, Moliere's famous comedy will be presented here on Thursday, November 25, at 8 p.m. in War Memorial Hall. Sponsored by the French section of the Department of Languages, it has been arranged by Concert Management of Cultural Affairs.

The comedy will be performed by *Le Treteau De Paris* in cooperation with *Les Comediens Des Champs-Elysees*. This is a new production in French, directed by Maurice Jacquemont, music by Claude Arrieu and choreography by Jacques Giraud.

The members of the cast also appear in the parts of musicians and dancers. The performance is being made possible through a grant by the Ontario Government.

There are fewer than 100 tickets left at the Central Box Office, Room 111 Arts building. All seats are unreserved and general admission is \$3 with student tickets at \$2.

Thursday noon concert

The Thursday Noon Hour Series on October 28 from 12:10 to 1:10 p.m. only, in Music Room 107 will feature Nicholas Goldschmidt, Director of Music. His illustrated talk on China will be based on his experiences when he visited China in 1961.

Mr. Goldschmidt was responsible for the first appearance of the Peking Opera on the North American continent at the Vancouver International Festival in 1960. A year later, on the invitation of the Government of the People's Republic of China, he and Mrs. Goldschmidt went to China to see the arts and hear their music.

Mr. Goldschmidt will illustrate his talk with colour slides and recordings.

TV camera lens lost

Will the person who inadvertently took the video lens out of the T.V. camera in Room 026 of the Arts building please return it to Room 024. The lens cannot be sold, and it cannot be used on any conventional camera, but because of its loss several student projects have had to be curtailed. Slip it into the room anonymously, if necessary, but please return it!