

African beekeeping

A CIDA-Guelph success story

Professor Gordon Townsend's eyes sparkle when he talks about one of his favorite subjects, the expansion and improvement in beekeeping in Kenya and surrounding parts of Africa. The continuation of the Kenya project, considered by the Canadian International Development Agency (CIDA) to be one of its more successful programs, is now assured with the announcement of a new agreement extending the eight-year-old project to at least 1982.

Bees can provide an important source of extra income to many of Kenya's people, in many cases doubling or tripling their normal income with little investment in money or time and no investment in land. It provides two important commodities, honey for home consumption and beeswax for export.

Throughout Africa and other developing countries, beekeeping conditions are quite different from those in North America or Europe, and technology and management techniques cannot be simply transferred. As a result of the environmental biologist's studies of some of the problems facing African beekeepers, the name of Prof. Townsend and of Guelph are respected throughout Africa and Asia. Guelph's "practical approach" is well known.

In 1966 CIDA sent the first group of apiculture extension officers to Guelph for short-term training. In 1969, Prof. Townsend undertook an extensive study tour of Africa to learn more of the conditions and the problems facing African beekeepers. That study has paid off in providing the background needed for training to meet the needs of the extension officers from Tanzania, Kenya, Uganda and Ethiopia.

In addition to the short-term courses for extension officer, I.K. Kigatiira, officer in charge of the beekeeping section of the National Agricultural Laboratories in Kenya completed graduate study at this University and returned to his homeland in 1975 to take charge of the program when the Canadian team returned home. In addition, three Kenyan students have received special certificates from the University. Prof. Townsend expects another Kenyan student to enrol at Guelph this

Traditional African beehives hang from a tree for protection from predators.



fall in an undergraduate program in apiculture.

Mr. Kigatiira now has a staff of 20 full-time trained workers in addition to another 50 part-time field workers, most of whom were trained in Kenya. Beekeeping is one of the most important parts of the agriculture ministry in Kenya.

New Hive Design

One of the most significant contributions Prof. Townsend has made to African beekeeping has been the development of a new hive design especially adapted to the African bees and African conditions. The hollow log type of hives used previously made it impossible to remove honey without having brood mixed in with it. With the killing of much of the brood, the bees are frightened away. The improved hive makes possible the removal of honey without damaging the brood.

With the more high strung African bees, it was also necessary to design a hive that made bee control during removal easier than is the case with the hives used by North American beekeepers.

In addition, North American hives are designed to sit on the ground, but in Africa the hives must be suspended to protect them from marauding badgers and the ravages of safari ants. The voracious ants can clean out an entire bee yard in a single night, says Prof. Townsend. The wires suspending the hive are greased to further discourage the ants.

Potential is Excellent

Honey produced in the traditional African hives is useful only for brewing be-

Continued on page 2.

An African bee yard with the specially designed hives now being manufactured by local craftsmen in small woodworking shops.



African beekeeping

Continued from page 1.

cause of its contamination with brood and beeswax, but honey produced in the improved hives is more suitable for table use and is considered an important food staple. Up to the present, Kenya has been importing Australian honey to supplement domestic production. Beekeepers market their product through local co-operatives, which must find financing for the revolving fund needed to pay the beekeeper cash on the barrel-head before they can process and market the crop. One co-operative has obtained such funding through the efforts of a church congregation in Guelph, with the church funds augmented by Canadian government support.

At present, Kenya produces nearly 10,000 tons of honey a year, but Mr. Kigatiira estimates the potential at about 100,000 tons annually. The dry climate is excellent for bees; the supply of pollen and nectar abundant. Most African honey comes from trees, just as some Canadian beekeepers obtain significant amounts from the basswood tree. Unlike Canadian bees which normally "stay put," African bees migrate with the seasons.

The experience gained with the African bees in Africa could prove very useful when similar bees move northward through Central America. Some African bees, taken to South America some years ago for crossbreeding with local bees to produce more prolific honey gatherers, escaped and have produced wild strains with many of the characteristics of the African bee, including their excitable temperament. They are gradually extending the area in which they occur and will soon reach Central America. □



BURSARIES — are available to francophone students from provinces other than Quebec and British Columbia who wish to take French courses at two accredited post-secondary educational institutions this summer: Université du Québec a Trois-Rivieres, Quebec, and the College Universitaire de Saint-Boniface, in Manitoba. Of 100 bursaries across Canada, 25 will be granted to Ontario students, according to a recent press release from the Ministry of Colleges and Universities.

Francophone students are eligible for the bursaries if they have completed grade 12, are Canadian citizens or have landed immigrant status at the time of application, and reside in one of the eight participating provinces. Grade 12 students, who expect to pass their exams in June, are also eligible.

Completed forms must be received in the Ministry by June 15, 1979. Students wishing to participate in this pilot bursary program should contact Jeannine Haick, Fellowship Section, Student Awards Branch, Ministry of Education, 8th Floor, Mowat Block, Queen's Park, Toronto, Ontario, M7A 2B4,

The 1979 edition of the *Inventory of Research into Higher Education in Canada*, edited by J.F. Houwing and A.M. Kristjanson, is now available from Association of Universities and Colleges of Canada Publications, 151 Slater Street, Ottawa, Ontario, K 1P 5N1, priced at \$4 (prepaid).

Europe beckons to L.A. students

For centuries, "the grand tour" of the European continent was considered the finishing touch to a young person's education. This summer 30 students majoring in landscape architecture will reap the benefits of a prolonged visit to Britain and Europe and fulfill their university requirements into the bargain.

It will be the second time the semester abroad program has been offered. In the summer of 1977, 13 seventh semester students from the School of Landscape Architecture left Guelph for an overseas experience that proved to be "a viable, worthwhile teaching and learning mechanism," according to Professor Ronald Stoltz, Landscape Architecture, who is in charge of the project.

This time, in addition to 15 fourth year Guelph students, there will be five graduates enrolled in the M.L.A. program and a further 10 students from the University of Toronto, Pennsylvania State University and Cornell.

They leave August 25 for London, England, their home base until their return to Canada the first week of December. But the students will hardly have time to catch their breath and recover from "jet lag" before they are off again, for two weeks' travelling through West Germany and the Netherlands. Following a schedule pre-arranged by the Dutch Ministry of Agriculture and Fisheries and the German Society of Landscape Architects (BD LA), the group will visit professional offices, historic sites, new projects and government ministries and if last time's experience is any indication, the reception will be warm and friendly, with extensive preparations made for their stay.

Such an experience, especially for those who have never ventured outside Canada, may, at first, be exciting to the point of overwhelming. But that condition is expected to pass swiftly. These are, after all, carefully selected students, who have demonstrated an ability to work independently with an advisor and have maintained in past semesters a good scholastic average.

Semester Abroad is a Demanding One

Moreover, exciting though it may be, the semester abroad is a demanding one. The students must complete four main requirements: finish two major projects, meet the stipulations of the design course and take a course of their choice at a European university. The design course alone includes the trip on the continent, a design problem carried out in connection with a European university, the keeping of a daily sketch book and journal, attendance at a series given by guest lecturers and going on field trips.

Preparations for the course of study, however, have already begun. An outline of one of the students' major projects had to have been submitted for approval by this past April. An analysis of urban squares and plazas, river front development, a study of the national park system of Britain and Europe and an

examination of the countryside commission systems in Britain and Europe are just a few of them. These proposals and others, says Prof. Stoltz, are based on work done in earlier seminar courses, which, in turn, had been designed especially to prepare the students for this semester abroad.

A number of students will be based in London, some staying at the University's London House and others living on their own in "digs" throughout the city, but they are not required to stay there and, in fact, depending on what they are doing, they may be far from London. One group, for example, will spend a good part of their time working on a neighborhood revitalization project in Newcastle. Prof. Stoltz is prepared to give the students a fair amount of choice where they go, just as long as they report back to him every week or so in London.

Interchange of Ideas

He sees the semester abroad program as valuable from so many angles. First of all, the involvement this year of students from other universities will immediately allow for an interchange of ideas, one of the prime objects of the trip. Prof. Stoltz also feels that the term abroad will give the students a good basic framework in general areas, so that when they return they can use this expertise to plan parks or marinas, work on neighborhood or downtown revitalization, do pedestrian studies or whatever they choose. The situations they face in Canada may not be the same as those overseas, but the fact that they have seen how people in other countries have dealt with these situations will lend innovation and ingenuity to their solutions for similar problems at home.

Finally in assessing the value of the trip, Prof. Stoltz looked back to the first semester abroad and remarked on the "tremendous growth and maturing" he noticed in the students. "They had seen and been exposed to so many things," he concluded, "that the experience had opened up for them a whole range of new ideas and concepts." □

Five named to CPS Honor Roll

Five College of Physical Science students in the B.Sc. program have been named to the College Honor Roll for the winter semester, 1979. The Honor Roll includes the names of students in the undergraduate programs of the College who have achieved an average of 85 per cent or higher on five courses in the fifth, sixth, seventh or eighth semester. They are:

Semester 5 — Christopher Retterath of Toronto, honors, computing and information science. *Semester 6* — John Root of Guelph, honors, chemical physics and Richard Courtice of Ajax, honors, theoretical physics. *Semester 8* — Simon Capstick of Guelph, honors, theoretical physics and Sheldon Duff of Cornwall, major, biochemistry, minor, biology. □

Convocation continues

Guelph's campus is welcoming back graduates and their families and friends for spring Convocation this week. Four of the seven ceremonies have yet to be held. The largest attended are expected to be on Thursday, June 7 and Friday, June 8.

The final sessions will also be held out-of-doors, weather permitting, near the Johnston Portico on the front campus at the customary times of 10 a.m. and 2:30 p.m. each day.

At the morning ceremony, Thursday, June 7, degrees will be granted to 110 Doctor of Veterinary Medicine and 91 Bachelor of Arts, honors program, graduands. Professor Trevor Lloyd Jones will be named a Fellow and he will give the address. Professor Marian Soltys will be admitted to the rank of Professor Emeritus. At the afternoon ceremony, 298 Bachelor of Arts, general program, degrees will be presented. Two hundred and seventeen graduands have indicated that they will receive their degrees in person. Professor Frank Milli-

gan will receive an honorary LL.D degree and he will speak to the graduates. Professor John Mel by will be admitted to the rank of Professor Emeritus.

On Friday morning, June 8, 272 Bachelor of Science, honors program, degrees will be presented. Dr. Rene Dubos will receive an honorary D.Sc. degree and he will address the graduates. Professor Lawrence McDermott will be admitted to the rank of Professor Emeritus. At the afternoon session, 283 Bachelor of Science in Agriculture degrees will be awarded; 242 graduands will accept their degrees personally. Professor Jack Tanner, chairman of the Department of Crop Science, will give the address.

Convocation Tea

Tea will be served after each ceremony in Peter Clark Hall, level 0, University Centre. □

THE UNIVERSITY CENTRE— is inviting applications for "Fair November," the annual exhibition and sale of Canadian crafts held at the University. This year marks the fifth anniversary of the fair, and also the introduction of a third day. Fair November, 1979, happens on Thursday, November 22, Friday, November 23 and Saturday, November 24 in the courtyard of the University Centre. Last year it attracted 20,000 visitors.

Sixty-five artisans will be chosen to participate in this year's fair, a select number from each of the following categories: metal, clay, leather, fibre, wood, glass and special materials. Applications may be obtained by writing to Room 266 of the University Centre or by calling, Ext. 3902. The deadline for application is Friday, August 3.

ELECTIONS — were held recently to appoint alumni to the Senate. Three candidates, Charles Broadwell, OAC '54, London, William Tolton, OAC '36, Streetsville and Dr. Herb Wright, OVC '38, Dundas, will serve for three-year terms which begin in September. Due to the resignation of Gretchen MacMillan, CSS '70 of Guelph, John Bowles of Toronto, CSS '72, was declared elected from the remaining list of candidates. His term will continue to August, 1980. There are nine alumni senators, three of whom are elected each year for a three-year term.

THE YEAR OF THE ROSE —will be celebrated during Horticulture Day at the Arboretum Saturday, June 23. Admission is free. The rose and flower show, sponsored by the Guelph Horticultural Society and District 7, Ontario Horticultural Association opens at 10 a.m. Keith Laver will chair an expert panel on rose growing, sponsored by the Canadian Rose Society, at 2 p.m. Exhibits relating to education, growing, selection and maintenance are also planned. Two outdoor activities are part of the program: a walk on the nature trails and guided visits to collections.

SEE THE STARS IN ACTION — when the Toronto Argonauts play scrimmage Saturday, June 10 at the Alumni Stadium beginning at 2:30 p.m. Tickets,

\$1.50 for adults and children \$1 (accompanied by parent) are available from the central box office in the courtyard of the University Centre or at the gate after 1:30 p.m. on the day of the game.

AN INCENTIVE SCHOLARSHIP — of \$1,000 will also be made to the College of Physical Science Alumni Association from the 1979 Alma Mater Fund. The name of the CPS Alumni Association was inadvertently dropped in the May 31 *News Bulletin* article entitled "Campus Fund Under Way."

THE REGISTRATION DATE — for children's swimming lessons is Tuesday, July 3 at 9 a.m. in the 1909 Lounge of the Athletics Centre. The cost is \$17 per child.

Classes are as follows: Beginners, Mon., Wed., Fri., 9 to 10 a.m.; Junior, Mon., Wed., Fri., 10 to 11 a.m.; Intermediate, Mon., Wed., Fri., 10 to 11 a.m., and Senior, Mon., Wed., Fri., 9 to 10 a.m.

Visiting lecturer

Paul E. Willis, Centre for Contemporary Cultural Studies, University of Birmingham, England, will be visiting the Department of Sociology and Anthropology on Monday, June 11 and Tuesday, June 12.

Professor Willis is currently visiting professor in the department of sociology, University of California, Santa Barbara, and director of the Social Science and Humanities Research Council of Canada project on "The Induction of Young Workers into Shop Floor Culture." His recent papers include: "The Man in the Iron Cage," "The Cultural Meaning of Drug Use," "The Motorbike within a Subcultural Group," "Symbolism and Practice: The Social Meaning of Pop Music," "Performance and

CUPE votes 8% increase

The 427-members of the Canadian Union of Public Employees, Local 1334 (CUPE) and the bargaining committees of the University of Guelph have settled on an eight per cent increase. An additional 0.1 per cent increase to a few select classifications to bring rates into line with the downtown community was also agreed upon.

The CUPE union membership, representing the trades, maintenance and service people on campus, voted 72 per cent in favor of accepting the settlement at a ratification meeting May 27.

The University's chief spokesman at the negotiations, Tony Blanchet, manager, employee relations, Personnel, indicated that he was pleased with the responsible attitude that CUPE representatives took towards the negotiations. CUPE President, Ruth Maynard, Housekeeping, told the *News Bulletin* Monday that she was quite pleased with the results of the negotiations. "We would have liked to have secured more of an increase for our people because of the inflation factor, but because of cutbacks in government funding we were only able to get an 8 per cent increase."

The settlement also designated December 27 as a day off with pay and December 28 as a day off without pay. Changes in vacation provisions were also settled. A more detailed outline of the settlement will be circulated by Personnel in a bulletin shortly.

The CUPE settlement is the first of five to be completed. Negotiations are expected to begin in the near future with the University of Guelph Food Service Employees Association whose collective agreement expired April 30. The University of Guelph Staff Association and the Canadian Union of Operating Engineers and General Workers agreement expires June 30. The Canadian Guards Association will seek a new contract September 14. □

Meaning: Women in Sport," "Human Experience and Material Production" and "The Main Reality: Transition School/Work." He has just published *Learning to Labor: How Working Class Kids Get Working Class Jobs and Profane Culture*.

Prof. Willis will deliver a talk entitled "Learning to Labor and Social Reproduction: Rebellious Student Subcultures, Male Chauvinism, Racism, and Shop Floor Culture" Tuesday, June 12 at 10 a.m. in Room 119 of the Arts building. He will be available for individual discussions in the early afternoon. Please arrange these visits in advance through the secretary, Department of Sociology and Anthropology, Ext. 3894 or 3895. □

APPOINTMENTS

Michael R. Wilson has been appointed chairman of the Department of Clinical Studies, OVC. He assumes his position July 1.



Dr. Wilson graduated from the University of Bristol in 1961 with a Bachelor of Veterinary Science. He was admitted to membership in the Royal College of Veterinary Surgeons (M.R.C.V.S.) in the same year and after several months in practice joined the Veterinary Medicine Department at Bristol as a Junior Fellow.

During his stay at Bristol, Dr. Wilson obtained his Ph.D. degree in 1964. His thesis was entitled "A Study of *Bedsoniae* in Sheep and Cattle." He also published 12 papers on *Bedsoniae* (renamed *Chlamydia*).

In 1966 he was offered a one-year position in the Department of Pathology at Guelph to investigate the role of *Chlamydia* in pneumonia in calves. In 1968 he accepted an associate professorship in Clinical Studies and in 1975 was promoted to full professor.

Dr. Wilson has administered the graduate studies and research program in Clinical Studies and taught swine diseases to both graduate and undergraduate students. He has also been engaged in major research activities and developed an *E. coli* bacterin which, with proper use, offers effective control of the majority of porcine neonatal enteric colibacillosis.

Dr. Wilson has had over 45 papers published in refereed journals and has made presentations to numerous international organizations including the World Veterinary Congress, as well as to farm organizations in Ontario.

Cal Swegles, who joined the Personnel Department in October, 1978, as assistant manager, Employment Services and Training, has been appointed manager, Employment Services and Training. He replaces Steve Paul who has joined Administrative Services as resource development co-ordinator.



Mr. Swegles obtained an M.A. in philosophy in 1972 and an M.Sc. in Extension Education in 1977 from this University. His M.Sc. area of specialization was staff training and development, communication and organizational behavior.

Previously, he was employed as staff development officer at the University of Toronto.

Mr. Swegles can be reached at Ext. 3058 or 3059.

Roxy Denniston has joined the Department of Residence, as conference manager, Central Reservations and Conferences.



Miss Denniston was previously employed by Abbey Life Assurance Company, Bournemouth, England, as head of special projects. Before that she was assistant conference manager at the University of Waterloo. Miss Denniston received a B.Comm. degree in hotel and food administration from this University in 1978.

In addition to assuming the management of the University of Guelph's conference operation, Miss Denniston will continue to look at new ways of promoting and generating interest in conferences at the University.

ASSOCIATION PRESIDENT

Association President

Amy Cousineau, Family Studies, attended the annual meeting of the Ontario Association of Credit Counselling Services. During the conference she chaired a panel discussion entitled "A Donor's View of Credit Counselling" and the annual business meeting. At the business meeting, Mrs. Cousineau was elected to a second term as president of the Association.

Board of Editors

Professor H.M.B. Hurwitz, Psychology, attended a meeting in April of the board of editors of the international journal, Psychological Research, in Heidelberg, Germany. His term of office was extended for a further two years.

Textile Federation President

Professor Keith Slater, Consumer Studies, was recently elected to a two-year term of office as president of the Textile Technical Federation of Canada. The Federation, with a membership of over 2,000, is an international organization of textile technologists with headquarters in Montreal and is composed of ten different groups. Prof. Slater, who is currently chairman of one of the ten, Textile Institute Canadian Section, has also been president of another one, Institute of Textile Science, and has been a director of TTFC for the past six years.

Wins Award

Peter Taylor, Information, tied for first prize with a writer from Owen Sound in the poetry category of the 1978 Louise Plumb Literary Awards in London, Ontario. Mr. Taylor's poem, "R MS Queen Elizabeth," was selected from the submissions of writers from across Ontario by the board of trustees of the Louise Plumb Fund, named in honor of Dr. Louise Plumb, a founding member of the London Branch of the Canadian Authors' Association. Three awards in each category of poetry, fiction and non-fiction are given annually in an effort to encourage new writers.

Exhibition

Professor Gene Chu, Fine Art, has had his color wood-cut entitled "Captivity" selected for the 1979 International Biennial Open Juried Exhibition organized by the Print Club of the Philadelphia Museum of Art. The Print Club received a total of 637 entries from around the world and selected 73 pieces for the exhibition. The members of the jury were Janet A. Flint, curator, National Collection of Fine Arts; John Ross, printmaker, Manhattanville College and Andrew Stasik, director, Pratt Graphics Center.

Recently Prof. Chu's color lithograph "The Collection," was selected for "Graphex 7," an important national print and drawing exhibition held at the Art Gallery of Brant, Brantford. Later the exhibit will travel across Canada.

Travels and Seminars

Five Chemistry professors recently attended the largest international chemistry meeting ever held, the American Chemical Society/Chemical Society of Japan Chemical Congress in Honolulu, Hawaii. Nearly 5,000 papers were presented by the more than 9,000 chemists from 30 countries. The Guelph representatives presented the following papers: "The Effect of Three-Body Forces in Liquids on Solubilities and Related Functions," by Professor S. Goldman, "The Role of a Novel Iron Complex Organic Radical in the Catalytic Oxidation of 2,4,6-Tri-tert-butylphenol," Dr. P. Henry (co-authored by F.T.T. Ng), "Redox Reactions of Cobalt (III) Complexes with Sulfur-Containing Ligands," Professor R.J. Balahura (L. Ecott), "Synthesis, Crystal and Molecular Structure of Dimeric Dinitrato (trimesitylphosphine) Mercury (III)," Professor E. Alyea and Professor G. Ferguson (M. Parvez, S.A. Dias). Prof. Ferguson also attended the American Crystallography Association meeting in Honolulu and presented a poster session on "Silver (I) Thio-olefin Complexes (co-authored by Prof. Alyea, A. McAlees, Professor R. McCrindle, and P.Y. Siew).

Professor C.L. Gyles, Veterinary Microbiology and Immunology, attended the annual meeting of The American Society of Microbiology, Los Angeles, and was associated with the presentation of two papers relating to *Escherichia Coli* enterotoxins.

Professors C.S. Hunter and G.J. Rubio, English Language and Literature, attended the 14th International Congress on Medieval Studies, held at Western Michigan University, Kalamazoo, Michigan. Prof. Hunter read a paper entitled, " 'My Essence was Capacitie': The Vision of Space and Time in Thomas Traherne's *Centuries of Meditations*." Last March Prof. Hunter also delivered an invited paper to the faculty and graduate students of the department of English at the University of Western Ontario entitled "The Expanded Self: the Literature of Process in Seventeenth-Century England." Prof. Hunter's two papers form part of a book-length study of Traherne's *Centuries* on which he was working during his recently completed year's leave-of-absence.

Professor Alex Michalos, Philosophy, attended the second session of a three-year project on public participation in health care delivery in the USA, at the Hastings Institute for Bioethics, N.Y. From there he flew to Montreal to address the North American Symposium on "Human" and "Person" as Normative Concepts in Contemporary Biomedical Decision-Making, at the Centre for Bioethics of the Clinical Research Institute of Montreal.

Let the children participate

All of us remember the start and finish of the accepted bedtime story for children: "Once upon a time . . . they lived happily ever after." The plot, good triumphing over evil after horrendous persecution, was deep and moral to satisfy, not the children, but the storyteller.

But have you ever wondered what children expect of a story? Storyteller Bob Munsch, a Family Studies lecturer and head teacher in the laboratory preschool, says children want to be entertained and they want to participate.

Mr. Munsch was not always a storyteller. He says he "learned" from a four year-old named Jeffery. The pre-schooler could keep the other children amused for long periods of time by telling stories which, from an adult's point of view, were not very good. Jeffery's stories lacked plot development and were simple and repetitious, but he used gestures, sound effects and response to maintain interest. "He relied on participation, and if he could do it, why not Bob Munsch?"

By telling a new story every day, Mr. Munsch says, it soon becomes clear which stories children like to hear. With practice, it

is much easier to entertain a group of 35 children with an original story than with a text which only a few can see.

Texts, he notes, even those written specifically for children, do not cover the many aspects of life. "Have you ever read a book which tells a child about a car accident on Gordon Street?" Yet this can be the topic of interesting discussion among the younger set," explains Mr. Munsch.

He notes that original storytelling is not a common part of early childhood education programs or daycare; it is usually a bedtime affair with a parent trying to get the child to sleep. Mr. Munsch says parents should realize that their participation in storytelling is an important part of a child's life.

Onlookers who have enjoyed Mr. Munsch's stories to preschoolers in the Family Studies' laboratory school have urged him to put them into print. Two of his stories, "Mud Puddle" and "The Dark," are now being published together in one book, *The Mud Puddle and The Dark*. Published by Annick Press, Toronto, the book is expected to be available in July. □



Storyteller Bob Munsch with preschoolers in the Family Studies' laboratory school.

Summer Music

Concert Management, in co-operation with the Department of Music will sponsor three events during the month of July. The Malmo KFUM Symphony Orchestra from Sweden will give a performance Thursday, July 5 at 8 p.m. in Ross Hall, 21 Meyer Drive, Guelph. The 85-member orchestra, under the direction of Bengt Nilsen, will be on a three-week Canadian tour. Their first concert is in Guelph. Tickets, are \$3, general, and \$2, students and senior citizens.

The two-piano team of Tina Yanchus and James Hibbard from London, Ontario will perform at a noon-hour concert Wednesday, July 11 at 12:10 p.m. in Music Room 107 of the Arts building. The program will include "Fugue in C Minor, K.426" by Mozart; "Variations on a Theme of Haydn, op. 56B" by Brahms; Schumann's "Andante and Variations, op. 46"; "Variations on a Theme of Paganini"

by Lutoslawski and "Eight Exotic Dances" by Francaix. Admission is free.

The University of Guelph Summer Chorale, under the direction of Gerald Neufeld, will perform Wednesday, July 18 at 7:30 p.m. in St. George's Anglican Church, Woolwich Street, Guelph. The concert will be shared by the University of Guelph Civic Orchestra under the direction of Guelph's Director of Music, Professor Stanley Saunders. They will be premiering Wolfgang Bottenberg's "Concerto for Organ and Orchestra." The orchestra will also accompany the Summer Chorale in its performance of Pergolesi's "Magnificat." Other works to be performed are Dvorak's "Songs of Nature"; "Pange Lingua" by Kodaly; "Exultate Deo" by Scarlatti and several Healey Willan motets.

Tickets are on sale at the central box office, courtyard, University Centre, Ext. 3940. □



OMAF comptroller

The sign on the office door in Johnston Hall reads "Comptroller, Agricultural Research Institute of Ontario." Inside is Alvin Cosgrove who administers \$16,000,000 annually to the University for projects and research funded by the Ontario Ministry of Agriculture and Food.

The link between the University and OMAF is unique in Canada, says Alvin, who heads a staff of five and reports to the Assistant Deputy Minister of Agriculture, education research and special services division, Dr. J. Clare Rennie. Most other universities receive their provincial funding as outright grants. At Guelph, the cost-sharing is governed by a contract worked out in 1965 when the University became a separate entity.

Alvin has been with the Ontario government for 12 years — three with the Treasury Department and nine in this position. A career officer with the Canadian Armed Forces, who was trained for flying high altitude reconnaissance missions over enemy territory, Alvin trained pilots for the Allies. After the war Alvin joined the many ex-servicemen who attended university and he obtained his commerce degree from Carleton University. The Air Force was still in his blood, however, and he rejoined as an accountant. Alvin still maintains military connections through membership in the Royal Canadian Members Institute. In his leisure time he enjoys golfing and photography.

Alvin's job encompasses much more than straight finances. He handles the administration of some 150 provincial civil servants on campus, attends meetings as a financial consultant, screens requisitions and requests and arranges for the physical facilities at the Elora Arkell and Cambridge research stations.

"The variety of dealing with everything from a leaking pipe at a research station to meetings with the deputy minister and cabinet keep my job interesting," says Alvin.

LAURELS — should go to the organizers of the public observing evening at the University's observatory June 2. The sky was messy, but sky-gazers were able to observe the moon, Jupiter, Saturn, the globular cluster in Hercules and the E Lyra double/double. For most of the visitors it was also the first opportunity to view through the new 15" portable telescope which was designed and built by Consumer Studies professor Michael Taylor. It provided a particularly sharp view of the rings around Saturn. Sky-gazers expressed a hope that physics professor Jim Hunt and Prof. Taylor will follow through with their plans to hold another observing evening in the fall.

PUBLICATIONS

Bartocci, Gianni, 1978. "Ultima da Skodyinzon," *Edizioni Silarus* 77-78, pp. 1-7 (Languages).

Bubenik, G.A., A.B. Bubenik and J. Zamecnik, 1979. "Development of Circannual Rhythm of Estradiol in Plasma of White-tailed Deer (*Odocoileus virginianus*)," *Comp. Biochem. Physiol.* 62A: 869-872 (Zoology).

Chakravarty, R.K. and K. Slater, 1978. "A Unified Drying Equation for Automatic Control in Tenting," *J. Text. Inst.*, 69: 370-378 (Consumer Studies).

Elazhary, M.A.S.Y. and J.B. Derbyshire, 1979. "Effect of Temperature, Relative Humidity and Medium on the Aerosol Stability of Infectious Bovine Rhinotracheitis Virus," *Can. J. of Comp. Med.* 43 (2) April: 158-167 (Veterinary Microbiology and Immunology).

Fujimoto, M., C.A. McDowell and T. Takui, 1979. "Ligand ENDOR Spectra of Cu(II) Impurity Complexes in Alpha-Glycine Crystals" in *J. Chem. Phys.* 70(8): 3694-3701 (Physics).

Johnston, G.R. and R.G. Rowberry, 1979. "Trent: a Mid-season, High-quality Table and Processing Variety," *Am. Potato J.* 56: 211-215 (Horticultural Science).

Kamis, A.B. and G.A. Robinson, 1978. "Serum T₃ and T₄ Concentrations of Japanese Quail Treated with Thyrotropin-releasing Hormone," *General and Comparative Endocrinology* 36: 636-638 (Bio-medical Sciences).

Lumsden, J.H., K. Mullen and B.J. McSherry, 1979. "Canine Hematology and Biochemistry Reference Values," *Can. J. Comp. Med.* 43: 125-131 (Pathology and Mathematics & Statistics).

Mackie, G.L., S.U. Qadri and R. Reed, 1978. "Significance of Litter Size in *Musculium securis*," *Ecology* 59: 1069-1074 (Zoology).

McKee, P.M. and G.L. Mackie, 1979. "Incidence of *Marvinmeyera lucida* (Hirudinea: Glossiphoniidae) in the Fingernail Clam, *Sphaerium occidentale*," *Can. J. Zool.* 57: 499-503 (Zoology).

Newman, Jay, 1978. "Exclusive Salvation," *Sophia*, 17: 16-26 (Philosophy).

Prescott, J.F., 1979. "Identification of Some Anaerobic Bacteria in Nonspecific Anaerobic Infections in Animals," *Can. Journ. of Comp. Med.* 43 (2) April: 194-199 (Veterinary Microbiology & Immunology).

Papp-Vid, G. and J.B. Derbyshire, 1979. "The Virus Neutralizing Activity of Antibodies Specific to the Envelope and Nucleocapsid of Equine Herpesvirus Type 1," *Can. Journ. of Comp. Med.* 43 (2) April: 231-233 (Veterinary Microbiology & Immunology).

Slater, K. 1979. "Cotton in a Competitive World," *Text. Inst. Ind.*, 17: 138-141 (Consumer Studies).

Steedman, C.D., Z.J. Hawrysh, R.T. Hardin, and A.R. Robblee, 1979. "Influence of Rapeseed Meal on the Eating Quality of Chicken. I. Subject Evaluation by a Trained Taste Panel and Objective Measurements," *Poultry Science* 58(1): 148-155 (Steedman: Consumer Studies).

Steedman, C.D., Z.J. Hawrysh, R.T. Hardin, and A.R. Robblee, 1979. "Influence of Rapeseed Meal on the Eating Quality of Chicken. II. Subjective Evaluation by a Consumer Taste Panel," *Poultry Science* 58(2): 337-340 (Steedman: Consumer Studies).

Swatland, H.J., 1979. "Differential Growth in the Sartorius Muscles of Male and Female Turkeys," *Zbl. Vet. Med. A*, 26: 159-164 (Animal and Poultry Science).

Taylor, Peter, 1978. Four poems: "Double Play", "Induction", "Sequence No. 3: Spinning" and "North Battleford," in *Grain* (Saskatoon), 6 (3), November: 31-35 (Information).

Taylor, Peter, 1978. Two poems: "Sequence No. 1: Groundschool" and "Solo," in *Origins* (Hamilton), 8, December: 41-42 (Information).

Tizard, I.R., N.A. Fish and J. Harneson, 1979. "Free Flying Sparrows as Carriers of Salmonellosis," *Cn. Vet. J.* 20 May: 143-144 (Veterinary Microbiology & Immunology).

Van Vliet, L.J.P., G.J. Wall and W.T.D. Dickinson, 1978. "Soil Erosion from Agricultural Land in the Canadian Great Lakes Basin," Final report, Projects 16 and 17, *Agricultural Watershed Studies*, I.J.C. Windsor, Ontario, 165 pp (School of Engineering).

Wilcock, B.P., 1979. "Experimental Klebsiella and Salmonella Infection in Neonatal Swine," *Can. J. Comp. Med.* 43: 200-206 (Pathology).

University Canada

Planning is under way for the establishment of a fisheries research and technology laboratory at Nova Scotia Technical College. The laboratory will complement the master's program in fisheries engineering due to begin in September. The laboratory will be developed as a Canadian centre of excellence for research and development in fisheries engineering and seafood science.

The school of journalism at the University of Western Ontario will offer a special program to train native journalists, starting in 1980. The new program, funded by the Donner Canadian Foundation, will consist of three sessions over a 12-month period, leading to a diploma. Candidates from across Canada will be nominated and sponsored by native organizations. The students will be under contract to their sponsoring organizations during the course of their studies and for one year following graduation.

Athabasca University will offer a bachelor's degree in administration 51ar11n9 1n the 1a11 01 1979. Credit will 62 91v01 10r appropriate course work completed 81 other institutions. 710 university 15 currently discussing with pr0f25510n8l accounting 0r98n128110n5 ways to ensure that the 5e111in52ruc1i0n21 program 52t15f125 the 124u1rem2n15 01 the accrediting 60d1051

The Association of Universities and Colleges of Canada has signed an agreement with the Department of the Secretary of State to administer a new scholarship program designed to promote bilingualism. Under the terms of the Queen Elizabeth Silver Jubilee Endowment Fund, AUCC will annually award \$4,000 scholarships to two students who have completed at least two years of undergraduate work and who wish to continue their studies in the other official language. The first scholarships are expected to be awarded for the 1979-1980 academic year.

PERSONALS

Goods and Services — Wanted — folding or split bike, may be in need of repair, Helena, 8132 or 2281 (leave message) or 853-3006 after 6 p.m.; ride to McMaster University, 3 days a week, share cost, 3727 or 821-8028 after 6 p.m.

Accommodation

For Sale — 2 year old, 2 storey, 4-bedroom house with double garage, finished basement, near University, 824-0778; 3-bedroom condominium, on first floor, with patio, overlooking park, suitable for family with teenaged children, pets allowed, enclosed parking, available immediately, 822-8628.

For Rent — 3-bedroom bungalow, furnished, 5 minutes from campus, for the month of June, 836-4889; barn, suitable for horses, 823-5336 evenings; 4-bedroom condo townhouse, fully furnished, Stone Rd. Mall area, 12 months beginning July, August or September, 3539 or 821-2716 after 5:30 p.m.

To Sublet — 3-bedroom, fully broadloomed, apartment, all appliances included, July 1 to September 30, 1979, near campus, furniture and plants for sale, 821-3131 after 5 p.m.

Cottages for Rent — spacious 3-bedroom cottage on large property at inland lake in Bruce Peninsula, 824-9760; new 3-bedroom, large, carpeted cottage on Lake Huron, all conveniences, available June 15 onwards, 822-3138.

Wanted to Rent — Unfurnished, 3-bedroom house, old University area, from July 1, 824-9820.

To Give Away — Small, blonde collie dog, good with children, and dog house, 658-2624.

Wanted to Buy — Student's desk and chair, in good condition, 824-9126 after 5 p.m.; GM baby's love car seat, baby's swing-a-matic, small play pen, all in good condition, 822-9805 after 5 p.m.

For Sale — Peppier dining room suite, excellent condition, 836-2494; '78 Honda Accord, fully equipped, 5-seater, like new, Carol, 824-6624; 36 ft. aluminum extension ladder, cherry wood suitable for cabinet making, 821-9378; safety approved child's car seat with removable "toddler barrier," good condition, 821-5874 after 5:30 p.m.; almost new, harvest gold, Simplicity automatic washer, swivel rocker, good almost new dresses, white uniforms, sizes 14 and 16, 658-2624; radial saw, extra blades, 658-6072; GE air conditioner, 10,000 BTU's for side sliding window, 824-1033; Pirelli radial tires, 195-14, Motorola AM car radio with speaker, Aria guitar, Texas instrument SR-40 Sci-calculator, 824-1206; Eureka vacuum cleaner with cleaning tools, baby's play pen complete with mattress, 822-3312; boy's 10-speed bicycle, 821-5096; dining room suite, like new, 2503 or 846-5974 after 5 p.m.; crib mattress, stroller, high chair, potty chair, 3351 or 836-2647 after 5 p.m.; old-fashioned cast iron bath tub, enamelled, 3540; corner teak table or desk, teak coffee tables, red rug, 4' x 6', standard metal tri-light, antique iron pump, 2 ft. square antique oak table, floor polisher, 836-3033; 1973 Audi 100LS automatic, 824-0808; Honda Civic hatchback, 4-speed, one owner, 27,500 miles, (Watts) 884-7852; gold shag rug, 8' x 12', 824-7779.

The church examines rural change

Thirty Protestant clergymen and lay leaders representing mainly rural areas from Windsor to Ottawa and the Algoma District were on campus recently to take a five-day course especially designed for them by the Office of Continuing Education in co-operation with Rev. R.G. Oliver, Toronto School of Theology Continuing Education. The subjects under review only indirectly involved the Christian ministry. They dealt instead with new developments both in land use and in food production and an examination of various aspects of change in rural communities.

The rationale for the course, according to its co-ordinator, Professor N.R. Richards, Land Resource Science, was to work with the clergy and laity to have them better informed about what is involved in food production, why food costs what it does in Canada and the importance of land to the food production system. Every morning, faculty members lectured and led discussions on such topics as land as a resource, the challenge of managing land, the changing rural scene, food from plant and animal sources, stewardship and resources. Afternoons were spent on field trips to farms in the Guelph area and through the Grand River Conservation Authority.

Faculty members involved included Professors Ab. Moore, Director, Office for Educational Practice; Neal Stoskopf, Director, Associate Diploma Course, OAC; Donald Blackburn and Harvey Caldwell, School of Agricultural Economics and Extension Education; Ib Nonnecke, chairman, Horticultural Science; Lila Engberg, Family Studies; Tony Fuller, Director of the Rural Development Outreach Program; Burt Christie, Crop Science and Doug Morrison, chairman, Animal and Poultry Science. Jack Hagarty, area co-ordinator, Ontario Ministry of Agriculture and Food and David Scott, consultant, Guelph, assisted with the course.

Using the week's experience as a base, participants showed in their final reports the concerns peculiar to their own areas. Among these is the reality of a shrinking farm population which many rural inhabitants view as a sign of the end of a way of life. They feel, said one clergyman, "that they are losing something precious . . . the security of the land." Paul Ross, a minister from Bloomfield in Prince Edward County, was convinced that if the family farm is not preserved, "the country town and church will die out."

The current practice of locating schools and collegiates in the larger towns and cities, the cutback of public transportation to rural areas and the increase of wealthy corporate farmers who, participants reported, often do not patronize the small towns, are seen by the rural population as sapping the vitality and leading to the eventual demise of the small town. They also seem to have a distrust of big corporations and a conviction that the "powers that be" lack an informed land use policy not only beneficial to rural dwellers and their environment, but also geared to

agricultural needs.

Participants generally conceded, however, that farm people feel uncomfortable with change and tend to view alterations in their lifestyle with concern. Most of those attending, accepting that times are changing, felt that the farming communities would have to live with the times, and this included acceptance of the corporate system, in order to maintain the advantages of modern technology.

When asked what aspect of their week at Guelph had struck them as most unexpected, the participants generally agreed with Paul Ross that it was "the Christian witness of the faculty members who spoke to them. It was a genuine expression in terms of the Christian gospel," he said.

The 30 participants left for home prepared to initiate without delay a study of the problems in their areas and to find ways to support and encourage the endeavors of other groups working for the benefit of the rural communities.

Most of all the course members hope, by their efforts, to work for a change in attitude both within their congregations and outside and to foster the continuance of good urban-rural relations, considered by everyone as a top priority. □

Freelance writing course

More freelance writers fail because they do not understand the requirements of the market than because of poor writing, according to Isobel Warren whose articles regularly appear in major publications across Canada. "Whether a freelancer is interested in writing for television, radio, a magazine or public relations," she explains, "it is necessary to know who buys what and why and be able to tailor copy accordingly."

Ms. Warren, who has been a newspaper reporter, articles editor and a frequent contributor to CBC television and radio, will share her expertise in a one-week workshop on freelance writing as part of the Summer Campus vacation program in July.

Drawing on her diverse writing background, Ms. Warren will discuss many different possibilities for freelancers. "Novice writers often expect to be published in *Chatelaine* or *Reader's Digest* and are discouraged when they are rejected," she says. "By serving a type of apprenticeship with trade publications, for example, freelancers can acquire the skill which will allow them to move on to more interesting and ambitious undertakings."

A Ryerson graduate in journalism, Ms. Warren lives in Toronto where she teaches writing at Seneca College. She considers teaching an integral part of her writing career and is, she says, "more excited when I see one of my student's names in print than my own."

For more information on the Summer Campus vacation program, contact the Office of Continuing Education, Johnston Hall, Ext. 3956. □

Alumni awards

Nominations sought

The honors and awards committee of the University of Guelph Alumni Association invites nominations for the Alumnus of Honor and the Alumni Medal of Achievement. These awards will be presented at the annual meeting of the association at Homecoming '79 in October.

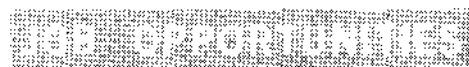
The Alumnus of Honor was established to recognize annually the alumnus who has brought honor to his or her Alma Mater and fellow alumni through significant contribution to one or more of the following: a national cause for Canada; service to the community, the world of science or education; leadership in business, industry, or alumni affairs.

The Alumni Medal of Achievement is awarded annually to a recent graduate (within the past 10 years) who brings distinction to his or her Alma Mater through contributions to country, community or profession.

Each nomination should contain the nominee's full name, address, business affiliation and title, year of graduation, family, alumni affairs participation, contributions and achievements in general and any other information which may assist the selection committee, including names of persons who have first-hand knowledge of the nominee's accomplishments. The nominee should *not* be advised of the nomination.

Nominations which have been made within the last five years will be considered by the selection committee together with new nominations received this year. Nominations are held in confidence.

Nominations must be forwarded by June 15 to Honors and Awards Committee Chairman, University of Guelph Alumni Association, Department of Alumni Affairs and Development, University of Guelph, Guelph, Ontario N G 2W 1 .0



Custodian 1, Housekeeping. Job Rate \$4.87. Probation rate \$.20 per hour lower than job rate.

Custodian 2 (2 positions), Housekeeping. Job Rate \$5.23. Probation rate \$.20 per hour lower than job rate.

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

Secretary, English. Salary Range \$157.60 - \$225.25. Assistant Receptionist, temporary part-time, Medical Services. Salary \$4.25 per hour. Please submit application form and references to Employment Services to the attention of Dr. D.G.M. Nelson, MD, Director, Medical Services, Macdonald Hall, University of Guelph.

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

Next Week at Guelph

THURSDAY, 79 06 07

Spring Convocation

Exhibits —JOHN GALT EXHIBIT, in celebration of his 200th birthday, main foyer McLaughlin Library, until mid-June; ANATOMY FOR ARTISTS COURSE EXHIBIT, pencil, pen and ink, conté and charcoal drawings by Guelph students, main floor, McLaughlin Library until 79 06 16.

Morning Convocation — DOCTOR OF VETERINARY MEDICINE AND BACHELOR OF ARTS (HONORS PROGRAM); Professor Emeritus T.L. Jones will be named Fellow of the University and give the address; Prof. M.A. Soltys will be named Professor Emeritus, 10:00, Johnston Portico, front campus. In case of rain ceremony will be in WMH. Tea afterwards, PCH, UC.

Biophysics and Biochemistry Summer Series— BIOCHEMICAL MANIPULATION OF THE RUMEN FERMENTATION TO IMPROVE THE GROWTH OF CATTLE, Prof. C. Forsberg, Microbiology, 12:00 to 13:00, Phys. Sc. 222. Bring your lunch. Afternoon Convocation — BACHELOR OF ARTS (GENERAL PROGRAM); Prof. J.F. Melby will be named Professor Emeritus; Prof. F.A. Milligan will receive an honorary LL.D. and give the address, 14:30, Johnston Portico, front campus. In case of rain ceremony will be in WMH. Tea afterwards, PCH, UC.

TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Family Summer Campus, 19:00, Cable 8.

FRIDAY, 79 06 08

Spring Convocation

Sale — SPRING SURPLUS SALE, 09:00, Blackwood Hall. Telephone Kathie Swackhamer, Ext. 2105 for further particulars.

Morning Convocation — BACHELOR OF SCIENCE (HONORS PROGRAM) DEGREES; Dr. R.J. Dubos will receive an honorary D.Sc. degree and address the graduates; Prof. L.A. McDermott will be named Professor Emeritus, 10:00, Johnston Portico, front campus. In case of rain the ceremony will be held in WMH. Tea afterwards, PCH, UC.

Worship — FACULTY-GRADUATE CHRISTIAN FELLOWSHIP, 12:00 to 13:00, UC 333; MUSLIM JUMA PRAYERS, 12:30, Chapel, level 5, UC.

Afternoon Convocation — BACHELOR OF SCIENCE IN AGRICULTURE DEGREES; Prof. Jack Tanner, Crop Science, will give the address, 14:30, Johnston Portico, front campus. In case of rain the ceremony will be held in WMH. Tea afterwards, PCH, UC.

Bible Study — GUELPH CHINESE CHRISTIAN FELLOWSHIP, 19:00 to 20:30, 8th fl. lge., Arts.

Free Film — BURN! starring Marlon Brando, 19:00, Phys. Sc. 113.

SATURDAY, 79 06 09

Arboretum Nature Series — SUMMER BIRD SURVEY with naturalists Bill Girling and Alan Watson, 08:00 to 11:00; meet at the J.C. Taylor Nature Centre.

Athletics — BLUE AND WHITE SCRIMMAGE with the Toronto Argonauts, 14:00, Alumni Stadium. Tickets at \$1.50 (adults) and \$1 (children) obtainable at the entrance.

SUNDAY, 79 06 10

Worship — CATHOLIC MASS, 10:00, UC 103.

TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Family Summer Campus, 11:00, Cable 8.

Athletics — UNIVERSITY OF GUELPH CRICKET TEAM MATCH, 13:30, Alumni Stadium.



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.

MONDAY, 79 06 11

ICS Course — INTRODUCTION TO SAS (Statistical Analysis System), Dr. N. Ison, 13:00 to 16:00, ICS; continues 79 06 13 and 79 06 15. To register call Ext. 3046. Benefit Dinner — BIG SISTER ASSOCIATION OF GUELPH, 19:00, Churchill's Restaurant and Lounge, 2 Quebec Street. Gourmet dinner and wine, \$20. For more information call the Big Sister Association, 824-0800.

Conference — ADOLESCENT SEXUALITY: A NEED FOR UNDERSTANDING AND EDUCATION, sponsored by the Department of Family Studies; continues until 79 06 13. Keynote address: THE ROLE OF GOVERNMENT IN FAMILY PLANNING AND SEX EDUCATION PROGRAMS, The Honourable Dennis Timbrell, Minister, Ontario Ministry of Health, 20:10 to 21:00, Phys. Sc. 105.

TUESDAY, 79 06 12

Conference — ETHICAL ISSUES CONCERNING THE USE OF ANIMALS IN AGRICULTURE AND SCIENTIFIC RESEARCH, begins 09:30 with Welcome to Delegates by Vice-President, Academic, Dr. H.C. Clark. Continues 79 06 13. Lecture — LEARNING TO LABOR AND SOCIAL REPRODUCTION: REBEL- LIOUS STUDENT SUBCULTURES, MALE CHAUVINISM, RACISM AND SHOP FLOOR CULTURE, Dr. Paul E. Willis, Centre for Contemporary Cultural Studies, University of Birmingham, 10:00, Arts 119.

Informal Discussion — BAHAI' CAMPUS CLUB, 17:00, UC 334.

Meeting — OUTDOORS CLUB, 19:30, Arts 116. Anyone interested in canoeing, backpacking and cycling is welcome.

WEDNESDAY, 79 06 13

Athletics — WELLINGTON COUNTY BOARD OF EDUCATION TRACK MEETS, all day, Alumni Stadium. Continues 79 06 14.

TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Family Summer Campus, 16:30, Cable 8.

Arboretum Nature Series — WEDNESDAY EVENING EXCURSION with Alan Watson, naturalist, to study everything from birds to botany, 19:00, unless it rains; meet at the J.C. Taylor Nature Centre.

THURSDAY, 79 06 14

Biophysics and Biochemistry Summer Series — PCB'S: METABOLISM AND ENZYME INDUCTION STUDIES, Prof. S.H. Safe, Chemistry, 12:00 to 13:00, Phys. Sc. 222. Bring your lunch.

Information Meeting — LONDON SEMESTER PROGRAM 1980, 15:00, UC 442.

TV — SPOTLIGHT ON UNIVERSITY OF GUELPH, Family Summer Campus, 19:00, Cable 8.

Meeting and Discussion — AMNESTY INTERNATIONAL, 19:30, UC 333. Discussion will take place with the delegates to the 1979 Amnesty General Meeting.

FRIDAY, 79 06 15

Free Film — TOM JONES starring Albert Finney and Susannah York, 19:00, Phys. Sc. 113.

Athletics — GUELPH OAKS A SOCCER TEAM, 20:00, Alumni Stadium.

Alumni — ALUMNI WEEKEND '79, beginning with AN ALUMNI CARIBBEAN NIGHT, 20:00, PCH, UC (tickets at \$5 at the door), and including class reunions, receptions, a church service and a concert. Continues 79 06 16 and 79 06 17.

Alumni should register by 79 06 08 by calling 824-4120, Ext. 2122.

Postage-Paid-In-Cash At Third Class Rates Permit 1149, Guelph, Ontario.