

United Way

Almost a success story (see page 4).

Bell gets 3M teaching fellowship

by Betty Bean-Kennedy

Prof. John Bell, chairman of the Department of Languages and Literatures, has been selected as one of 10 recipients of the 3M Teaching Fellowships, which are being presented for the first time this year.

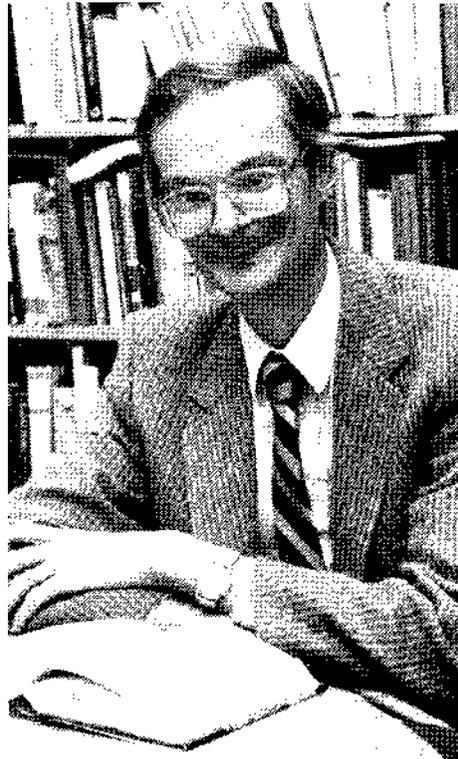
Sponsored by the Society for Teaching and Learning in Higher Education and 3M Canada Ltd., the awards are based on two criteria — excellence in teaching as judged by students and colleagues, and achievements in improving the interest in and quality of teaching and learning in the wider academic community.

The fellowships will be awarded each year to up to 10 faculty who have made outstanding contributions to teaching and learning at Canadian universities. Winners receive a citation of excellence, an invitation to a special three-day seminar and support for teaching initiatives. Some 110 nominations for the 1986 fellowships were received from 31 institutions.

As chairman of Languages and Literatures, Bell's contributions to curriculum development have created a strong undergraduate major in classics that is interdisciplinary in focus. Campus-wide, he served as chair of the Board of Undergraduate Studies when that body was preparing a list of learning objectives common to all undergraduate programs in response to a recommendation in the University's aims document.

Bell, who was a 1976 recipient of the Ontario Confederation of University Faculty Associations teaching award, is described by students and associates as an innovative and exciting teacher of the classics. Says one former student; "When I took a course in mythology with Prof. Bell, I was amazed to learn how myths are a part of our everyday life, not just ancient stories. He instilled in me an interest in mythology and classical literature that carried over into my other studies."

Does Bell have a secret for good teaching? "I'm not sure I do have a secret," he says, "but



Prof. John Bell (Photo by Herb Rauscher, Illustration Services)

for me, teaching is the most humanistic of professions. It stretches our humanity, stretches our capacity to become aware of our limitations. All good teachers I know love teaching and give of themselves. They are very humane and show this humanity. The motivation of educators should be to make it possible for students to develop their humanity as teachers of themselves."

Bell has helped with workshops sponsored by the Office for Educational Practice for the past several years and has also participated in international workshops on instructional development and methods. As part of a team working in Malaysia, Bell found it "a profoundly transforming experience to work with colleagues of other cultures." Because there was no common discipline background, he says, he had to rely totally on teaching methods and ideas.

Bell says he is pleased to see the fellowship come to Guelph and to the College of Arts. "This award shows that the University of Guelph is being recognized for the work done on learning objectives. From the college's point of view, it shows that the humanities are recognized as important, that what we are doing is important." 0

Does P equal NP?

Swart stirs computer world, but jury still out

by Mary Dickieson

One of the most perplexing problems in computer science may have been solved by Prof. Ted Swart, who has a joint appointment in the departments of Mathematics and Statistics and Computing and Information Science. He has written a paper offering proof that $P = NP$. To the layman, this means that "we will now be able to solve problems that we formerly thought we could not solve," he says.

Prof. Bill Smith, chairman of the Department of Mathematics and Statistics, says that if Swart's results are verified, they "will really be quite earth-shattering and exceptional — of far-reaching significance in mathematics."

Swart cautions that the jury is still out on whether his approach will be proved or disproved by his peers, but already his pronouncement has caused a stir in the computer world. Requests for reprints of his yet unpublished paper are mounting daily and he has received numerous invitations to speak on the subject. The findings are of considerable interest to everyone working in this area, says Smith, and they are an important contribution to the problem whether or not they are eventually accepted as stated.

Swart says his results are bound to be met by a great deal of professional suspicion because they are contrary to the prevailing thought. "Most people think that P does not equal NP ."

Although the results are still theoretical, Smith and Swart agree they could have a number of practical applications. Industry, commerce, finance and most other sectors of society that use computers could benefit from Swart's advancement of one of the fundamental aspects of computer science, the use of algorithms.

People solve problems on computers by using precisely defined sets of steps called algorithms, says Swart. Of the two classes of

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P = NP

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computer problems, class "P" refers to those for which "good" polynomial time algorithms exist, enabling them to be solved efficiently on a computer. Swart cites the example of the "minimal connector problem," which asks for a scheme to connect a group of cities by telephone wires in such a way that the amount of wire used is minimal. "Good" algorithms allow this problem to be solved easily regardless of the number of cities involved, says Swart.

Computer problems in the second class — "NP" — are considered "hard" to solve. Large problems in this category can not be solved on even the most powerful computers in the world because there are no algorithms that allow solution of the problem without escalating the number of calculations to a level beyond the capacity of the computers. Swart says there are at least 1,000 known examples of problems in this class, of which the "travelling salesman problem" is one of the best known. Even for a relatively small group of cities, such as the 50 U.S. capitals, there has been no solution to the problem of devising a route that will enable a salesman to visit each city only once while travelling a minimal distance.

"My results say that these two classes of problems are equal and that there do exist good algorithms for solving this type of computer problem," he says.

To prove his results, Swart's paper cites a similar problem, the Hamilton circuit, which is illustrated by asking the question "Can you

visit each of several cities in succession without backtracking?"

For the mathematicians among us, Swart's problem establishes that the Hamilton circuit problem can be solved in polynomial time by converting a mathematical programming formulation of the problem into a linear programming formulation and using existing polynomial time algorithms as established by Kachiyan and Karmarkar.

The significant feature of these results is that they will enable computers to tackle larger problems with more unknowns and get the results more quickly.

Swart joined the University's Institute of Computer Science in 1981. A chemical engineer with much experience in computing science, he received his bachelor's, master's and PhD degrees in South Africa. He spent more than 20 years on faculty at the University of Rhodesia, eventually becoming dean of the faculty of science and head of the department of computer science. He was responsible for setting up the first radiocarbon dating laboratory in Africa, the Gulbenkian lab in Rhodesia and the University of Rhodesia's computing centre.

He spent four years as a professor at the University of Waterloo before coming to Guelph, during which time he worked on another famous mathematical problem, the "four-color problem," which is concerned with the minimum number of colors needed to chart any map. When this problem was eventually solved by Haken, Appel and Koch, Swart was one of only six authors cited in the report.

Blue skies from now on, says Parking

Campus parking — like the weather — is sunnier these days, thanks to some changes.

There is a mistaken perception that parking facilities have been reduced, says John Mason, director of Administrative Services. But the fact is parking has increased substantially over the last 12 to 18 months.

P25 on the west side of Gordon Street is open again after a shutdown because of construction on the OVC extension — that's 130 spaces back in use — and P13 east of South Residences has been completed for another 217 spaces. Three lots are being extended or increased — P22 behind the old federal building #48 off Gordon Street for 25 spaces, P64 on College Avenue adjacent to OVC for 28 spaces, and P19 north of College Avenue for 70 spaces. Fifty spaces in P31 on South Ring Road near the University Centre have been returned to permit parking from the visitor cash lot.

Mason says Guelph's parking system has endured its most trying period in many years. During the first six weeks of the semester, parking facilities were strained to the limit, he says. Mason thinks the record-setting rainy weather caused more people to bring their cars to campus, and they wanted parking spots close to their workplace or classroom. The wet weather also prevented completion of P25, which was expected in early September. 0



The Advisory Council of the University School of Rural Planning and Development met Oct. 15. Attending were: seated, left to right, Robert Bailey, Agriculture Canada; Prof Don Reid; and President Burt Matthews. Centre row, left to right, Prof Farokh Afjhar, Colin Evans, Ontario Ministry of Community and Social Services; Mabel Dougherty, Association of Municipalities of Ontario; Prof. David Douglas, director, USRP&D; Jim Keenan, Ontario Ministry of Tourism and Recreation; and Prof John Fitzgibbon. Back row, left to right, Dr. Rick Richards, retired dean of OAC; Lee Nauss, Federation of Canadian Municipalities; Milt Farrow, Ontario Ministry of Municipal Affairs; Cynthia Wright, Geography; Profs. George Penfold, Stephen Rodd and Harry Cummings; and Prof Harold Baker, University of Saskatchewan. Unable to attend were David Cressman, Ecologistics Ltd., Waterloo; Peter Walker, Walker Wright Young & Associates, Toronto; the Honorable Thomas Berger, Vancouver; Earl Drake, Department of External Affairs; Walter Giles, Ontario Ministry of the Environment; Harry Pelissero, Ontario Federation of Agriculture; Prof Archie MacKinnon, director, Centre for International Programs; and Profs. John Fitzsimmons, Gustaaf Van Beers, Jackie Wolfe, Tony Fuller and Stewart Hiltz.

(Photo by Herb Rauscher, Illustration Services)

Greenhouses 'grow' on campus thanks to annual conference

Two new greenhouses have sprouted up on campus over the past year, thanks to the annual Canadian Greenhouse Conference.

The conference, which is sponsored by the Department of Horticultural Science, Flowers Canada, the Ontario Ministry of Agriculture and Food, the Ontario Greenhouse Vegetable Growers Marketing Board, Canadian Region Beddings Plants, Inc. and allied trades, opens Nov. 7 with Jack Riddell, minister of agriculture and food, speaking on "The Role of the Greenhouse Industry in Agriculture."

For last year's conference, Westbrook Greenhouses of Grimsby installed a 36- x 72-foot plastic greenhouse behind the University Centre. This year, Jacobs Greenhouse Manufacturing Ltd. of Brantford is installing a 32- x 48-foot tempered glass building, and Westbrook is replacing part of the roof of its greenhouse with curved tempered glass.

Prof. Jim Tsujita, Department of Horticultural Science, one of the chief planners of the conference, says the construction came about because of the popularity of the greenhouse conference. The pressure for space created a demand for more than the temporary structures installed each year on Winegard Walk; the creative solution was for these companies to install their own products, he says. Other companies have also contributed to the greenhouses, providing such things as heating and ventilation systems. During this year's conference, plaques identifying contributors will be unveiled.

Tsujita says the greenhouses offer year-round benefits to the University. They can be used for teaching and short-term research projects and will be available to the Department of Horticultural Science all year, except for the few days the conference is in progress.

The conference also contributes to various research funds on campus and has initiated a greenhouse fund for the Department of Horticulture. The conference has contributed more than 815,000 to the fund to date.

With the co-operation of Prof. John Ogilvie, director of the School of Engineering, this year's conference will also feature a removable arched lean-to greenhouse attached to the Thornbrough building. Twenty feet wide and 150 feet long, the greenhouse will be clad with air-inflated polyethylene and will provide display space for some of the 107 exhibitors who have rented space this year. This space will be in addition to the greenhouses on Winegard Walk beside the University Centre.

One of the main reasons for the success of the conference, says Tsujita, is that it is aimed at the "hands-on" people in the greenhouse industry. Owners bring the employees who are responsible for the day-to-day operation of their businesses and look at the diverse program as continuing education. Greenhouse growers have to be able to shift with technological change, he says, and they must be aware of new discoveries in the field because they are competing in the global market. This is a "no frills" conference, he says. The registration fee is just

\$15, so participation is high.

Tsujita is responsible for local arrangements for the conference and says the entire Department of Horticultural Science gets involved — faculty members, staff, graduate students and undergraduates — making it a learning experience for everyone. While industry representatives are on campus, there is a cross-flow of information, he says. Faculty and students become aware of real problems and issues faced in the field; in turn, industry people learn more about the University's role in research and teaching.

Another positive factor about the University hosting this annual event, he says, is that the campus provides an open-door environment, and that means the industry as a whole can participate, not just segments of it. The conference also gives students an opportunity to learn more about the practical aspects of their field of study, he says. 0

Student advisory council established

An advisory council on student affairs was established last week by Provost Paul Gilmor.

Gilmor says the council will be responsible for commenting on matters affecting the learning environment for students and improving the quality of student life on campus.

Sixteen people will sit on the council — four from outside the University, including alumni, four faculty and staff, four student leaders and four from the professional and management staff of the Student Services Division.

Gilmor will chair the council, which is expected to meet twice a year, and Dr. Janet Wardlaw, associate vice-president, academic, will have *ex officio* status.

Further details will be available once the council is named, probably by December, says Gilmor. 0



Dr. Bruce Stone, associate dean of OAC, left, joins Florence Partridge, former chief librarian, University Library; and Charles Ferguson, vice-president administration, at the unveiling of a tom turkey by Frances Loring Oct 28. The art deco bronze, purchased for the University's collection through the Florence Partridge Fund, is in the Donald Forster Sculpture Park at the Macdonald Art Centre.

(Photo by John Majorossy, Illustration Services)

Knocking on corporate doors for Guelph

THE CAMPAIGN

David Clark, president and chief executive officer of the Campbell Soup Co., will be knocking on corporate doors on the University's behalf during *The Campaign*. Clark agreed to serve with John Bassett as co-chairman of Guelph's fund-raising effort because his company has had a close relationship with the University over the years.

He views his participation as part of his personal and corporate obligation to give back to society. "This is one way I can do it and participate in a cause in which I believe," he says.

"It is important that we have universities of the highest calibre. It is particularly important that Guelph continue to provide service, quality graduates and quality research. The Campbell Soup Co. is a major player in the agribusiness scene in Canada and that automatically makes the University of Guelph important to us."

Clark has become something of a celebrity since becoming president of the Campbell Soup Co. three years ago. He was the ninth top manager to be brought in to save the company

in 11 years. Sales had declined in six of the seven years before he arrived on the scene.

The turnaround at the company has been dramatic, according to a 1985 article in *Maclean's* magazine. Clark believes the job was easier because the firm was in "a pretty sad state" when he arrived. People "were prepared to accept change as being better than the way things were."

Clark says "it is very difficult to change an organization that has been overwhelmingly successful and is very certain of what it's doing. I'm a 'contrarian.' When things are going badly, I don't worry because I know we can turn it around. When things are going well, I begin to worry about what we should be doing differently."

Change is the only constant Clark ever deals with. "What underlies my management style is the philosophy that says the world is too fast-changing and too complex for any one individual to have all the answers. The secret is to get a team together — a team with complementary skills — and create the environment in which they can produce to the utmost of their abilities. Then I can stand back and let them go at it."

Symbiotic relationship

Universities and business in Canada enjoy a symbiotic relationship, says Clark. "Universities provide to business the human raw material on which its future rests."

Universities also provide research stimulation, he says. "It is left to the universities to do the basic research which most industries would find difficult to fund or justify, and then industry gets involved by sponsoring applied research at the university or by picking up on the basic research and bringing it in-house to do their own applied research."

Clark says the university community has become more astute about tapping into the needs of industry. "Universities, and in particular Guelph, are marketing themselves more effectively to the business community without diverting themselves from their major thrusts, which are teaching and the pursuit of knowledge for its own sake. Guelph seems to have recognized that its customers are not only its students, but the business community."

There has been a dramatic increase in the number of universities and other groups approaching the corporate sector for funding. "It is a marketing challenge to meet the needs



David Clark

(Photo by Herb Ruescher, Illustration Services)

of industry," says Clark. "If the University can do that, it will draw from industry more financial, moral and human support."

Praise for students

By his own admission, Clark still has lots to learn about the University of Guelph, but he is "knocked out" by the students' response to *The Campaign*. He believes this is a strong start for the University's fund-raising effort.

"I hope the students won't stop there," he says. "I hope that they will continue to lead the way and show the rest of us the sort of commitment the University family has for this whole undertaking. And I trust the faculty will be following their example." 0

Appointments

Dr. Manfred Brauer of Edmonton will join the Department of Chemistry and Biochemistry Jan. 1, 1987, as assistant professor.

Keith Alnwick will join the Office of the Registrar Nov. 17 as associate registrar, admissions. Alnwick, who is assistant director of admission and academic records, office of admissions, Carleton University, succeeds Peter Tron, who is now registrar at Wilfrid Laurier University.

James Mahone has joined the Office of Research as administrator of the Ontario Ministry of Agriculture and Food contract in a new position. He was previously director of research with the Alberta department of agriculture in Edmonton. 0

United Way goal within reach

The University's 1986 canvass for the United Way is expected to reach its \$86,250 goal. As of Monday, University people had donated \$70,358.

Campus United Way organizers are confident the goal will be reached because donations from several areas have yet to be returned.

Seven areas have already achieved 100 per cent participation — the dean's office, College of Arts; the computer group at OVC; Central Purchasing; Administrative Services; office of the assistant director, Administrative Services; Institutional Analysis and Planning; and the communications group at Alumni Affairs and Development.

There is still time to make a donation to the United Way at Rathby House or in the United Way collection boxes located in the courtyard of the University Centre. 0

FAIR NOVEMBER, a sale of Canadian crafts, is Nov. 20 to 23 in the University Centre. Now in its 12th year, Fair November will exhibit the work of 82 artisans, selected from hundreds of applicants. Crafts include stoneware, handblown glass, basketry, wooden folk art, porcelain and enamelled jewelry, painted silk and leather goods. Hours are 10 a.m. to 9 p.m. Nov. 20 and 21, 10 a.m. to 6 p.m. Nov. 22, and 11 a.m. to 5 p.m. Nov. 23.

CIL DISTINGUISHED LECTURER Bill Costerton, a microbiologist at the University of Calgary, will give two lectures Nov. 6. At noon, he will speak on "The Role of Biofilms in the Persistence and Antibiotic Resistance of Chronic Bacterial Infections" in Room 121, MacNaughton building. At 8 p.m. he will discuss "Bacterial Biofilms in Nature and Disease" in Room 113, MacNaughton building. Costerton will give a total of five lectures throughout November. He may be reached through Microbiology professor Terry Beveridge at Ext. 3366.

FRENCH STUDIES of the Department of Languages and Literatures, and the University of Waterloo's department of French are sponsoring a performance of Moliere's *Le Misanthrope* by La Compagnie Claude Beauclair of Paris Nov. 17 at 2 p.m. in War Memorial Hall. Tickets, available at the door, are \$6 general, \$5 for students. Group tickets are \$4.50 each. For more information, contact the Department of Languages and Literature, Ext. 3884.

THE GUELPH FIELD NATURALISTS are holding a potluck supper Nov. 13 at Trinity United Church. Guest speaker George Peck, a research associate of the Royal Ontario Museum, will discuss the distribution and nesting biology of birds in Ontario in relation to their breeding habitat. For more information, contact Stewart Hilts, 836-7657.

CLASSICAL GUITARIST Liona Boyd and "Her Exciting New Ensemble" will perform in War Memorial Hall Nov. 20 at 8 p.m. This concert will show Boyd in a somewhat different musical light as she moves beyond the traditional expression of classical works into the realm of "new age music," accompanied by an electric classical guitar, synthesizers and percussion. Tickets are \$11 to \$14 general, \$9.50 to \$12.50 students and seniors, and are available from the University Centre box office, Sam the Record Man and the Bookshelf Cafe.

THE CANADIAN Save the Children Fund is holding its third annual show and sale of work by international women artists Nov. 9 to 22 at the Barber Gallery, 167 Suffolk St. W. The sale will feature Peruvian wall hangings, tapestries from Bengal, sculpture and paintings by local and regional artists, and toys and crafts from Peru and the Far East. There will be a gala opening reception Nov. 9 from 1 to 5 p.m. Admission is \$5.

ARC INDUSTRIES' 12th annual open house is Nov. x from 9:30 a.m. to 4:30 p.m. The adult rehabilitation centre, which is located at 8 Royal Rd., is a vocational services program of the Guelph and District Association for the Mentally Retarded. The open house includes a sale of baked goods, stationery products, woodworking items and handcrafted gifts.

THE GERONTOLOGY Research Centre's informal seminar series continues Nov. 19 with Prof. Donal McKeown, Clinical Studies, discussing "The Companion Animal Bond and Elderly Individuals: Current Research Opportunities." The lecture is at noon in Room 334, University Centre.

THE THURSDAY NOON CONCERT, sponsored by the Department of Music, features Yossi Zivoni, violin, and Valerie Tryon, piano, Nov. 13 in Room 107, MacKinnon building. Zivoni, principal lecturer at the Royal Northern College of Music in Manchester, has toured extensively in Australia, Canada, Israel, Venezuela, Europe and the Far East. He is a laureate of a number of international competitions. Tryon, one of England's most respected piano soloists, has appeared with all the leading orchestras and conductors in that country. She was a prize winner at the Budapest Liszt Competition. A resident of Canada since 1971, she plays frequently for C BC Radio.

The two programs, at 12:10 and 1:10 p.m., will be selected from: "Sonata in D major, Op. 12, No. 1" by Beethoven; "Sonata in A minor, BWV 1003" (solo violin), by Bach; "Sonata in A major, Op. 100" by Brahms; "Ballade" by Graham Whettam; and "Two Pieces" by Kreisler.

HISTORY PROFESSOR Gilbert Stelter will give an illustrated lecture, "Churches as Works of Art — A Case Study of Guelph," Nov. 14 at 7:30 p.m. in Room 107, MacKinnon building. The lecture is sponsored by the Humanities Association; admission is free to members of the association and students, \$2 to non-members.

TREES WITHOUT LEAVES is the topic of the Arboretum's Sunday afternoon walk Nov. 16. The walk leaves from the J.C. Taylor Nature Centre at 2 p.m.

STAO, the Science Teachers' Association of Ontario, will hold its annual conference on campus Nov. 6 to 8. The purpose of the conference is to provide science teachers with information for use in the classroom. University display participants include OAC, OVC, FACS, the College of Biological Science and the departments of Chemistry and Biochemistry and Physics.

THE ROYAL AGRICULTURAL Winter Fair is Nov. 13 to 22 at the Coliseum, CNE grounds. The University's exhibit will feature a variety of Guelph's accomplishments, ranging from the Lucy Maud Montgomery diaries to Guelph's Independent Study Program. Prof. Bruce Hunter, Clinical Studies, will give a demonstration featuring birds from the Wild Bird Clinic.

A BUS TRIP to the Art Gallery of Ontario to view "Vatican Splendor; Masterpieces of Baroque Art," sponsored by Interhall Council and the University Catholic Community, is Nov. 9. The bus leaves the University Centre at noon; cost is \$11, \$9 for students.

THE Hafa Restaurant features Buffalo-style chicken legs and buffalo chips Nov. 12. For dining room reservations, call Ext. 8116. Reservations are not required for the buffet. Both rooms are located in the lower level of the Hafa building.

ANAGNONSON & KINTON, duo-pianists, will give a recital Nov. 9 at 2 p.m. in Room 107, MacKinnon building. The concert is sponsored by the Department of Music; admission is free. The program will consist of Stravinsky's "Dumbarton Oaks Concerto," "Variations on a Theme" by Brahms, the original two-piano version of Gershwin's "Rhapsody in Blue" and a two-piano paraphrase of Strauss' "The Blue Danube."

SCHOLARSHIPS are available from the Terry Fox Humanitarian Award. Candidates must be graduating secondary-level students or those currently studying towards a first degree or diploma in a Canadian university or college. The selection committee will consider the extent to which candidates demonstrate the highest ideals and qualities of citizenship and humanitarian service while in pursuit of excellence in their academic, amateur sport, fitness, health and voluntary community service endeavors. The pursuit of excellence, particularly in the face of such obstacles as physical disability, personal problems and social setting, is weighted heavily. The value of each award is \$3,000 annually, for a maximum of four years. Deadline for application is Feb. 1. Applications may be obtained from; Terry Fox Humanitarian Award Program, 711-151 Sparks St., Ottawa, Ont. K1P 5E3.

RETIRED HUMAN BIOLOGY professor John Powell is again offering a back exercise program. It will consist of eight one-hour sessions aimed at increasing back flexibility and increasing abdominal muscle tone, two reported causes of lower back pain. Contact occupational health nurse Jean Wessman at Ext. 2133 for more information.

THE SOUTH AFRICA Interest Group and the Guelph and District Labor Council present a discussion by Peter Mchlangu, Canadian representative of the South African Congress of Trade Unions, Nov. 12 at 8 p.m. at the Steelworkers Centre. For more information, telephone 824-2091.

A BROWN BAG LUNCH SERIES, sponsored by the Professional Staff Association, begins Nov. 10 at 12:15 p.m. in Room 441, University Centre, with John Talbot, Personnel, discussing "The Hay System at the University." On Nov. 20, the film "When I Say No I Feel Guilty" will be shown at 12:15 and 1:15 p.m. Elvin McNally, Personnel, will discuss "The Benefits Package at the University" Nov. 24 at 12:15 p.m., and the series concludes Dec. 3 with the film "Time to Think" at 12:15 and 1:15 p.m.

Our people

Erik Jorgensen, retiring director of the Arboretum, will be honored at a wine and cheese reception Nov. 13 from 4 to 6 p.m. in the Faculty Lounge, Level 5, University Centre.

Ian White, Counselling and Student Resource Centre, will be honored at a reception Nov. 22 from 7:30 to 10 p.m. at the Macdonald Stewart Art Centre. White is retiring after 34 years of service to the University. Throughout his time here, he has been dean of men, director of career planning and placement, and most recently, co-ordinator of employer relations for the CSRC. For details about the reception, contact Barbara Cardow, Ext. 2366.

Prof. Eugene Benson, English Language and Literature, was invited by the chancellors of the universities of New Zealand to visit that country as a 1986 Chancellors' Visitor. He lectured for five weeks in May and June at the universities of Wellington, Otago, Massey, Auckland and Canterbury, primarily in the areas of Anglo-Irish literature and Canadian theatre and drama.

Janice Randall, a PhD candidate in Applied Human Nutrition in the Department of Family Studies, won the graduate student award for the best paper presented at the Canadian Society for Nutritional Sciences' scientific meeting in June. "Serum or Urine Chromium as a Measure of Chromium Exposure of Tannery Workers" is the title of the paper that won Randall the \$800 award and plaque. Prof. Rosalind Gibson is Randall's supervisor.

Prof. Marjorie Wall, Consumer Studies, and Louise Heslop; School of Business, Carleton University, received the Award of Distinction for their paper presented at the meeting of the Administrative Sciences Association of Canada. The paper is entitled; "Two Views of the World: Differences Between Men and Women on Perceptions of Countries as Producers of Consumer Goods."

Prof. Trevor Watts, Consumer Studies, has been elected president of the Canadian Institute of Food Science and Technology. This is an organization of more than 2,000 professional and technical people involved in applying science to the production, preservation, distribution and use of food.

Prof. Glen Anderson, Crop Science, has received the Award of Excellence in weed control as the outstanding weed researcher in Eastern Canada. He is the first recipient of the award, which was made by the eastern section of the Expert Committee on Weeds at its meeting in Halifax.

D.V.Sc. graduates **Scott McEwen**, Anatomic Pathology, and **Rebecca Baker**, Clinical Pathology, have successfully completed the Pathology Board Certification Examination. **Bev Poitras McEwen**, who is completing her PhD in the Department of Pathology, successfully completed her Pathology Board Examination in Anatomic Pathology, one of 19 out of 96 candidates worldwide who were successful.

Norman Lightfoot, Media Productions, is the producer of *Whitecoat*, a documentary film on harp seals and their whitecoated young on the ice of the Gulf of St. Lawrence, which won an award of excellence in the Atlantic Festival Atlantique held in Halifax in October. The film has been shown in the "Wildlife Showcase" series on British television, and the CBC is now considering purchasing Canadian television rights for it. Lightfoot has just returned from filming in Churchill, Man., for a video on the work of artist Audrey Casey. Prior to that, he attended Wildscreen '86 in Bristol, England, where two BBC films shown included his photo credits. Footage from *The Harp Seal* and *The Hooded Seal*, produced for Prof. **Keith Ronald**, Zoology, used in *Kingdom of the Ice Bear*, also included a University of Guelph credit.

Temporary faculty category established for graduate studies

Senate approved the addition of temporary faculty to the categories of graduate faculty Oct. 21. The Board of Graduate Studies says the additional category is for temporary appointments to teach a graduate course or to serve on a supervisory committee for a limited time.

Senate also approved that, on the recommendation of the department chair or director of a school, associated faculty may be given a continuing appointment after completion of a candidate's program, subject to annual review. BGS says many administrative units would like to retain access to the special competence represented by their associated faculty after their initial role as supervisory committee member is completed. Such individuals could have useful roles as research consultants for other graduate students and as members of subsequent supervisory committees.

Senate received for information additions to graduate, temporary graduate faculty and associated graduate faculty. They are: *Graduate faculty*: James Atkinson, Animal and Poultry Science, Keith Betteridge, Biomedical Sciences; John Greenwood, Botany; David Holmberg, Clinical Studies; Tanya Sturtzinger, Pathology; Anthony Winson, Sociology & Anthropology; Steven Cronshaw, Psychology; and Larry Spriet, Human Biology.

Temporary graduate faculty: Michael Baker, contract appointment, Zoology, and Paul Favaro, sessional lecture, Psychology.

Associated graduate faculty: Normand Ducharme, Cornell University/Clinical Studies; Leonard Butler, University of Toronto/Horticultural Science; Robert Graham, University of Waterloo/Landscape Architecture; William Luttrell, GATT-Fly, Toronto/Sociology & Anthropology; and Kathleen Okruhlik, University of Western Ontario/Philosophy. 0



The Children's Fund, a project recently established by the Family and Children's Services of Guelph and Wellington County to help needy children, is \$1,200 richer thanks to an Aggie Week donation last Wednesday. Above, left to right: Amy Cousineau, Provost's Office, and president of FCS, receives a cheque from Laurie Scott, Mary Cameron and Peter Epp, Aggie Week executive members. The Children's Fund pays for camp fees and transportation to camp, enrichment activities fees, nursery school enrolment and preschooler transportation. (Photo by Herb Rauscher, Illustration Services)



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The College of Social Science has named three recipients of the *Alm' Mater Fund's 1986 Forster Fellowships*. Named in honor of the late president Donald Forster, the fellowships rotate annually among the seven colleges. This year's recipients are Prof. Bill Graf Political Studies, for his study of authoritarian democracy in West Germany; Prof. Bill Nickling, Geography, for his research on wind erosion processes and land forms; and Prof. Dan Yarmey, Psychology, for his work on psychology and law. Above, left to right: CSS Dean John Vanderkamp, Graf Nickling, Yarmey and Marjorie Millar, director of Alumni Affairs and Development. (Photo by Herb Rauscher, Illustration Services)

Personals

For Sale: Kroehler brown tweed chesterfield and chair, 822-4880, until 9 p.m. Half-acre building lot, four minutes from University, 821-6590. 1980 Pontiac, 824-6135, after 6 p.m. Vanilla ice cream, Nov. 14, 2 to 4 p.m., Room 025, Food Science building. 1981 Toyota Celica; Mathushek Orchestral 1862 square grand piano, 763-3428, after 6 p.m. 100 acres of land at Downie Road and 401, 822-8053. Tap shoes, size 8, Laurie, Ext. 8708.

Wanted: Live-in babysitter Dec. 6 to 20 for two children, aged 8 and 10, Ext. 6171. Ride twice a week from Mississauga (401 and Trafalgar Road), share costs, Flora, Ext. 3150 or 820-3359. Ride from New Hamburg to Guelph daily, share expenses, Celeste, 836-6500, Ext. 337.

For Rent: Two-bedroom apartment in one-of-a-kind stone home, \$540 per month, 824-1773.

Available: Bed and breakfast, reasonable, downtown Toronto, 824-9803. Quiet, responsible secretary to house sit in January and February, Ext. 6505 or 648-2768, evenings. Proof-reading and editing by an experienced writer, editor and essay marker, 824-4304. Typing, fast, neat and accurate, 836-8137, after 5 p.m. Word processing, Ext. 6508. Professional word processing, fast turnaround, low rates, 837-1410. Freelance graphic artist to draw graphs, charts, figures, etc., for theses or publications, Gabrielle, 824-6207.

"Personals" is a free service offered by at Guelph for staff faculty and students at the University. All items must be typed and submitted to at Guelph one week before publication.

Next Week at Guelph
Continued from page 8.

WEDNESDAY, Nov. 12, 1986

Colloquium - H-Y ANTIGEN AND SEX DETERMINATION IN FARM ANIMALS, Stephen Wachtel, 9:10 a.m., APS 141.

CSRC - CAREER DEVELOPMENT ORIENTATION, noon, UC 301; RESUME CLINIC, noon, register at Connection Desk by 11 a.m.; WRITING ASSISTANCE, 5:30 to 9 p.m., Lib 359; LEARNING/-WORK STYLES TESTING, 7 p.m., register at Connection Desk by 4 p.m.

Concert - KING STREET BLUES BAND, noon, UC courtyard.

Biochemistry Seminar - THE MOLECULAR BASIS OF SEXUAL SELF-INCOMPATIBILITY IN PLANTS, Ann Eastman, noon, Hort 124.

Worship - ECUMENICAL CAMPUS MINISTRY, Holy Communion, 12:10 p.m., Chapel, UC Level 5.

Cycling Club - ROCKWOOD, 20 miles, 5 p.m., UC south doors.

Job opportunities

As of *at Guelph* deadline Oct. 31, 1986, the following opportunities were available;
Postdoctoral Fellow, Environmental Biology. Salary: \$20,000 per year.
Student Laborers, Grounds Department. Rate; \$9.80 per hour.

The following positions were available to on-campus employees only:

Custodian 2, Housekeeping Department. Job Rate: \$9.77 per hour; probation rate; \$.20 per hours lower than job rate.

Custodian 3, Housekeeping Department; three positions. Job Rate: \$10.25 per hour; probation rate: \$.20 per hour lower than job rate.

Custodian 4, Housekeeping Department; three positions. Job Rate \$10.70 per hour; probation rate: \$.20 per hour lower than job rate.

Library Assistant I, Track 1, Documentation and Media Resource Centre, Library. Salary range: \$247.17 minimum; \$286.72 job rate (level 5); \$355.34 maximum.

Clerk II, Dean's Office, OVC. Salary range; \$291.19 minimum; \$336.53 job rate (level 5); \$419.16 maximum.

Clerk I, Alumni Affairs & Development. Salary range; \$247.17 minimum; \$286.72 job rate (level 5); \$355.34 maximum.

Administrative Secretary, Administrative Department -- Physical Resources. Salary range; \$319.62 minimum; \$368.87 job rate (level 5); \$458.03 maximum.

Administrative Secretary, Family Studies Department. Salary range; \$319.62 minimum; \$368.87 job rate (level 5); \$458.03 maximum.

Boiler Room Helper, Central Utilities. Job rate; \$10.51 per hour; start rate; \$9.62 per hour.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.

Correction

The names of three faculty members in the College of Family and Consumer Studies were reversed in the photograph accompanying the Oct. 30 story, "Africa Revisited." They are, left to right, Profs. Rosalind Gibson, Lila Engberg and Jean Sabry.

THURSDAY, Nov. 13, 1986

Public Lecture - POETRY; THE BROKEN WEAPON, Jerzy Sito, 11 a.m., MacK 317.

Pathology Seminar - MECHANISMS OF DRUG-INDUCED LIVER DISEASE, 11:10 a.m., Path 220.

Worship - ECUMENICAL CAMPUS MINISTRY, Fellowship and Conversation, noon to 2 p.m., PCH; Community Evening, 5 to 6:30 p.m., UC 332; EXPLORATIONS IN MEDITATIVE PRAYER, 5 p.m., Chapel, UC Level 5.

A Better World - ASSESSING AN NGO'S INVOLVEMENT IN RURAL DEVELOPMENT IN SOUTHERN ETHIOPIA: The Case of the Holy Ghost Father's Mission, Donald Reid, noon, MacK 132.

Concert - YOSSI ZIVONI & VALERIE TRYON, violin and piano, 12:10 and 1:10 p.m., MacK 107.

Apiculture Club - WAX MOTH; PROBLEMS IN CONTROL, Scott Dupree, 5:10 p.m., Graham 200.

Volleyball - WOMEN VS. LAURIER, MEN VS. MCMASTER, 7:47 p.m., AC.

Dance - BLUES BROTHERS BASH, 8 p.m., PCH.

Next week at Guelph

THURSDAY, Nov. 6, 1986

Pathology Seminar - VENOOCCLUSIVE LESIONS ASSOCIATED WITH ACQUIRED PORTOSYSTEMIC SHUNTS IN DOGS, S.J. Best, 11:10 a.m., Pathology 220.

Worship - ECUMENICAL CAMPUS MINISTRY, Fellowship and Conversation, noon to 2 p.m., PCH; Community Evening, 5 to 6:30 p.m., UC 332; EXPLORATIONS IN MEDITATIVE PRAYER, 5 p.m., Chapel, UC Level 5.

Distinguished Lectureship Series - THE ROLE OF BIOFILMS IN THE PERSISTENCE AND ANTIBIOTIC RESISTANCE OF CHRONIC BACTERIAL INFECTION, noon, PS 121; BACTERIAL BIOFILMS IN NATURE AND DISEASE, 8 p.m., PS 113, Bill Costerton.

A Better World - CURRENT DEVELOPMENT IN ERITREA, A REPORT OF A SURVEY, Araia Desta, noon, MacK 132.

Symposium - YOUNG OFFENDERS ACT, Susan Reid, noon, UC 442. Concert - L AURENTIAN STRING QUARTET, 12:10 and 1:10 p.m., MacK 107.

Bulk Food Sales - PICK-UP, 3 to 6 p.m., Maritime, same times on Friday.

Lecture - REGULATION AND MODIFICATION OF FATTY ACIDS BIOSYNTHESIS IN HIGHER PLANTS, Paul Stumpf, 3:30 p.m., C&M 260.

Apiculture Club - THE ISLAND OF TONGA, Elizabeth Smith, 5:10 p.m., Graham Hall 200.

CSRC - JOB-HUNTING WORKSHOP SERIES, 6 p.m., register at the Connection Desk, Level 3, University Centre, by 4 p.m.

Meeting - ISLAM; THE MISUNDERSTOOD RELIGION, Abdouah Abdel Hakem, 7 p.m., UC 103.

Guelph International Film Festival - GALA EVENING, "Grasping the Blade's Edge - My Country," Odeon Theatre, 7 p.m.

Dance - WIN A TRIP TO JAMAICA PARTY, 8 p.m., PCH.

FRIDAY, Nov. 7, 1986

Worship - ROMAN CATHOLIC MASS, 8:10 a.m., Chapel, UC Level 5; CHINESE CHRISTIAN FELLOWSHIP, 7 p.m., MacK 117A.

Film - FIRES ON THE PLAIN, 6:30 p.m.; BRAZIL, 9:30 p.m., PS 105.

Guelph International Film Festival - PHILIPPINES; NO CHOICE BUT CHANGE, 7 p.m., MacK 115; CAMERA D'AFRIQUE, 7 p.m., MacK 117; ASIA - NEW FACE IN AN OLD WORLD, panel discussion, 8 p.m., MacK 115; VIDEO ART FROM BRAZIL AND CHILE, 8 p.m., Ed Video; EMITAI, 8:50 p.m., MacK 117; CELSO AND CORA, 9:30 p.m., MacK 115.

Dance - THE SATTALITES, 9 p.m., PCH.

SATURDAY, Nov. 8, 1986

Worship - CHINESE CHRISTIAN FELLOWSHIP, 9 a.m., Chapel, UC Level 5.

Guelph International Film Festival - CHILDREN'S MATINEE, 10:30 a.m., CAMERA D'AFRIQUE, 12:30 p.m., The Loft, Carden Street; SPEAKING OF NAIROBI, 2 p.m., MacK 115; LUCIA, 2 p.m., MacK 117; EMITAI, 2:30 p.m., The Loft; NO LONGER SILENT, 3:15 p.m., MacK 115; MEET THE DIRECTORS, 4:15 p.m., MacK Red Lounge; ALLAN BOESAK, 4:30 p.m., The Loft; WINNIE AND NELSON MANDELA, 5 p.m., The Loft; BOMBAY OUR CITY, 7 p.m., MacK 117; A GOOD WOMAN, The Loft, 7 p.m.; THE SPIRAL, 7:30 p.m., MacK 115. WAR IN FLOWERLAND II, 8 p.m., Ed Video. WORLD OF APU, 8:30 p.m., MacK 117; LUCIA, 9 p.m., The Loft.

Sale - INTERNATIONAL ARTS AND CRAFTS, noon to 8 p.m., The Loft, Carden Street, continues Sunday, same hours.

Arboretum - BIRD FEED AND FEEDERS, 1 p.m., J.C. Taylor Nature Centre.

SUNDAY, Nov. 9, 1986

Cycling Club - ELORA GORGE, 45 miles, 10 a.m., UC south doors.

Worship - ROMAN CATHOLIC MASS, 10:10 a.m., PCH; ECUMENICAL CAMPUS MINISTRY (Anglican, Presbyterian, United), 10:30 a.m., Chapel, UC Level 5; GREAT COMMISSION CHURCH, 10:30

a.m., PS 104, Sunday School available for children.

Guelph International Film Festival - CELSO AND CORA, noon, The Loft; ALLAN BOESAK, 2 p.m., MacK 115; LAS MADRES, 2 p.m., MacK 117; PHILIPPINES; NO CHOICE, 2 p.m., The Loft; VIDEO-TAPES, Ed Video, 2 p.m.; WINNIE AND NELSON MANDELA, 2:45 p.m., MacK 115; WORKSHOP: ACTION/REACTION, 3 p.m., The Loft; BAROM SARRET, 3:15 p.m., MacK 117; CHILLY NIGHTS, 3:45 p.m., MacK 115; TAUW, 3:45 p.m., MacK 117; A GOOD WOMAN, 4:15 p.m., MacK 117; WORLD OF APU, 4:30 p.m., The Loft; ROCKERS, 7 p.m., MacK 117; THE SPIRAL, 7 p.m., The Loft.

Bus Trip - VATICAN SPLENDOR: MASTERPIECES OF BAROQUE ART, Art Gallery of Ontario, buses leave at noon from UC, \$11, \$9 for students.

Craft Show and Sale - INTERNATIONAL WOMEN ARTISTS, sponsored by the Canadian Save the Children Fund, opening reception 1 to 5 p.m. at the Barber Gallery, 167 Suffolk St. W., continues to Nov. 22, \$5.

Recital - ANAGNONSON & KINTON, duo-pianists, 2 p.m., MacK 107, free.

Sunday Afternoon Walk - BIRDS AT THE FEEDER, 2 p.m., J.C. Taylor Nature Centre.

Concert - GUELPH YOUTH ORCHESTRA, 3 p.m., Harcourt Memorial United Church, Dean Avenue, tickets available at door.

MONDAY, Nov. 10, 1986

CSRC - CAREER DEVELOPMENT ORIENTATION, noon, UC 301.

Brown Bag Lunch Series - THE HAY SYSTEM AT THE UNIVERSITY, John Talbot, 12:15 p.m., UC 441.

Worship - CATHOLIC MASS, 5:10 p.m., Chapel, UC Level 5.

TUESDAY, Nov. 11, 1986

Service - REMEMBRANCE DAY, 10:55 a.m., WMH

CSRC - CAREER DEVELOPMENT ORIENTATION, noon, UC 301; STRONG CAMPBELL INTEREST INVENTORY, 1 p.m., register at Connection Desk by 11 a.m.; WRITING ASSISTANCE, 5:30 to 9 p.m., Lib 359.

Worship - ROMAN CATHOLIC MASS, 12:10 p.m., Chapel, UC Level 5; ECUMENICAL CAMPUS MINISTRY, Bible Study, 5 to 6:30 p.m., UC 335; FAITHFUL CURIOSITY, 5 to 6 p.m., UC 334.

Interfaith Dialogue Group - LIVING THE LIFE; CODES OF ETHICS OF THE WORLD RELIGIONS, 7:30 p.m., UC 103.

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is published by the University of Guelph for the University community and its friends every Thursday except during December, July and August when a reduced schedule applies. AT GUELPH is guided by an editorial policy approved by the President of the University. Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items and other submissions are welcome. Deadline is seven days before date of issue unless specified. Stories may be reprinted with acknowledgement of source.

Editorial office: Public Relations and Information, Level 4, University Centre. Telephone: 1-519-824-4120. Ext. 3864. Executive Editor - Sandra Webster. Assistant Editor - Barbara Chance. NETNORTH: DOISW at UofGUELPH. CoSy: swebster ISSN 0830-8489
Postage paid-in-cash at first class rates. Permit 1149, Guelph, Ontario N1G 2W1.