

ubc reports

Vol. 23, No. 5, March 16, 1977. Published by Information Services, University of B.C., 2075 Wesbrook Mall, Vancouver, B.C. V6T 1W5. ISSN 0497-2929. J. A. Banham and Judith Walker, editors.



Winners of three of UBC's top scholarships for 1976-77 put their best foot forward for the *UBC Reports* camera. Left to right are: John Henderson, Commerce 4, winner of the \$1,500 Sherwood Lett Memorial Scholarship; Lynn Petersen, Rehabilitation Medicine 4, who received the \$750 Amy E. Sauder Memorial Scholarship; and Preston Wiley, Physical Education 4, winner of the Harry Logan Memorial Scholarship valued at \$750.

Musical events on campus

SUNDAY, MARCH 20

2:30 p.m. DOCTOR OF MUSICAL ARTS RECITAL. Vance Hoy, piano, plays Music of Mozart, Prokofieff, Schubert and Chopin. Recital Hall, Music Building.

WEDNESDAY, MARCH 23

12:30 p.m. NOON-HOUR CONCERT. Jack Mendelsohn, cello; and Dale Reubart, piano, perform Music of Beethoven, Schumann and Debussy. Recital Hall, Music Building.

THURSDAY, MARCH 24

12:30 p.m. FACULTY RECITAL. Carol Jutte and Margot Ehling, piano, play Piano Duets of Satie, Mozart, Schubert and Stravinsky. Recital Hall, Music Building.

FRIDAY, MARCH 25 and SATURDAY, MARCH 26

8:00 p.m. UBC OPERA THEATRE presents *Rusalka* by A. Dvorak. This Canadian premiere features singers from the UBC Opera Theatre and is accompanied by the UBC Symphony Orchestra. Old Auditorium.

Two contributed much to UBC

Two well-known members of the UBC community — Dr. Philip Vassar of the Faculty of Medicine and Percy Fryer, head bookbinder in the UBC Library for 25 years — died recently.

Nearly 300 colleagues and friends took part in a memorial gathering at Cecil Green on March 2 for Dr. Vassar, who was a member of the Department of Pathology. He died suddenly on Feb. 27 at the age of 52.

A native of London, England, Dr. Vassar received his medical degree from the University of London. He did graduate work in pathology in the U.S. He was a research pathologist at the Royal Cancer Hospital in London until 1956, when he came to Vancouver as a surgical pathologist at the Vancouver General hospital and a clinical instructor in UBC's medical school. He was appointed an assistant professor in 1959 and full professor in 1965.

Dr. Vassar had an international reputation for his work in cancer pathology and was also regarded as an outstanding teacher by students in the Faculty of Medicine. A memorial fund for Dr. Vassar is being established and contributions should be sent to the UBC pathology department.

Mr. Fryer was head bookbinder in the UBC Library from 1951 until his retirement in November, 1976. He too was a native of London where he apprenticed as a bookbinder and learned the craft of fine hand binding as well as the techniques of production binding. He emigrated to Canada in 1949 and was employed by the Queen's Printer in Victoria before joining the UBC Library.

Under Mr. Fryer's direction, more than 300,000 UBC books were rebound. The memorial book listing the names of all UBC students who served in both World Wars, on display in the lobby of the War Memorial Gymnasium, is an example of his skill in fine binding.

Mr. Fryer died at his Vancouver home on March 1 at the age of 65.

Sports

RUGBY — It's World Cup time again for UBC's Thunderbird rugby club. This year they meet Long Beach State University for the trophy on Thursday, March 24, at 12:45 p.m. in Thunderbird Stadium. Two days later on Saturday, March 26, the 'Birds face the University of California at Santa Barbara at 2:30 p.m., also at Thunderbird Stadium.

The art of communicating the sciences

Victor Doray, the head of the Department of Biomedical Communications in the Faculty of Medicine, was vastly amused.

It had just been suggested to him that the revolution of the past few decades in the use of audio-visual techniques was something new to the health sciences.

"Look," he said, leaning forward in his chair in his basement office in the campus Woodward Instructional Resources Centre, "some of the oldest images known to man are medical images that attempt to depict what happens in the human body.

"You'll find embryonic medical illustrations in prehistoric cave paintings and in the art of aborigines. Some of the rarest and most beautiful books ever printed, including some by Leonardo da Vinci, were concerned with the human body and medical subjects. The first organized schools of medicine in the medieval period had artists and illustrators associated with them.

"No, our craft may have become more sophisticated in the last 30 years with the growth of new technology, but audio-visual aids have always been part of the health sciences. We come by our craft honestly."

Ask Vic Doray to summarize the activities of his department in 1975-76 and he'll tell you that 69 per cent of the time it served the Faculty of Medicine on campus and at the Vancouver General Hospital, served other health sciences areas 21 per cent of the time, and spent the balance — 10 per cent — providing services and advice to other UBC faculties and outside groups.

The department's 20-member staff — split half-and-half between UBC and the VGH — produced 269 drawings, 701 graphs, 11 special exhibits, 21,800 slides, 14,300 photographic prints, 5,200 feet of movie film for 65 films, 2/UBC Reports/March 16, 1977

and made 90 videotapes that involved 7,880 hours of audio-visual and television engineering.

The material was produced for a wide range of people and purposes, including UBC doctors and other health professionals; hospital residents, interns and patients; students, both graduate and undergraduate in medicine, dentistry, rehabilitation medicine, pharmaceutical sciences, nutrition and social work; and for a variety of health professionals practising throughout B.C. who, in turn, used the material for the education of patients and the general public.

Example: Shortly before being interviewed by *UBC Reports*, Vic Doray was furiously busy drawing a series of illustrations for a surgeon who had developed a new operating

technique and who wanted to use the illustrations for a presentation he was making to his colleagues.

The same drawings will be used to illustrate an article in a medical journal and when converted to other forms — slides or photographs perhaps — for the education of medical students.

"It might take a surgeon two or three pages of type to explain a new technique if only words are used," says Mr. Doray. "A set of photographs or illustrations help to illuminate the subject and eliminate printer's ink. And in converting the illustrations for other purposes a lot of people benefit in the long run."





Drawn by
Bruce Stewart,
former Staff Artist,
Biomedical Communications

Biomedical Communications' huge collection of material is also constantly expanding. "We take photographs of 12 patients every day at the request of health professionals who want to document that patient's progress. The photographs and other audio-visual material are used at weekly meetings of health professionals (called "rounds" in medical jargon) where a doctor will explain the patient's condition, what is being done to treat the patient, and will also seek the advice of his peers on future treatment."

Service to students is also a significant aspect of their work.

"About a decade ago, the medical students came to us and asked what we had that could be used to enhance their education," Mr. Doray said. "At that time we had a collection of 80,000 slides and we began to look at the collection in terms of producing self-instructional material in the form of slide shows and audio tapes. There's a wide range of material now available to students in every area of the health sciences."

Even hospital patients aren't isolated from the products of the department.

"We recently produced a slide-tape presentation for patients who have experienced kidney failure and are in hospital for renal dialysis, which involves a frightening and complex piece of machinery for cleansing the blood of impurities.

"The slide-tape show we've developed is placed in a light, compact unit about the size of a small television set, placed on the patient's bedside table, and all the patient has to do is press a button and the presentation starts automatically.

"We think it's an honest, straightforward description of their condition and the method of treating it. It's designed to allay patient fears and help them adjust to their new situation.

"The presentation has had one unexpected and positive side effect. A hospital administrator told me that hospital workers — the women who serve meals to patients, for instance — were fascinated by the show and after seeing it said they understood for the first time what was happening on the ward. So you never know who's going to be educated by one of our productions."

Thanks to grants from the P. A. Woodward Foundation and the federal LIP program, the biomedical communications department is also expanding its efforts in the field of community education in association with the UBC Department of Psychiatry.

The department has produced 80 hours of health science TV programming on such topics as coronary care, child-rearing and sports-related injuries.

Mr. Doray is also enthusiastic about the self-education process which his department has been encouraging. "Faculty members and students in the health sciences can make use of the department's facilities to make their own slide-tape shows. After all, they're the ones who best know the requirements of their fellow students or faculty members and the other publics they serve."

Example: The department recently videotaped a four-hour surgical operation. Immediately following the procedure, the surgeon came to the biomedical communications department and spent six hours reviewing the tape and deciding which parts of it he wanted for a 20-minute segment of highlights for a presentation the next day to a medical meeting. He received five minutes of instruction on a videotape editing machine, which the surgeon operated himself to produce the 20-minute film.

The department is also an integral part of the Woodward Instructional Resources Centre completed in 1972. It's the central building in UBC's Health Sciences Centre for the training of undergraduate students in the health sciences. Prior to completion of the IRC, the biomedical communications department was housed at the VGH.

The wired world of the IRC — the walls of the building contain miles of cable — allow Vic Doray's department to provide audio-visual services to five major classrooms and 14 seminar rooms through 44 projecting devices located in the basement headquarters of the department or scattered through the IRC.

"We played a major role in the design of the IRC to enable it to utilize advances in the state of the audio-visual art," he said. "We've been told the building is the most heavily booked teaching unit in Canada and the primary reason is the built-in facilities for using audio-visual material. We've also had 5,000 visitors to the building, many of them people from other institutions who are contemplating construction of similar facilities."

Vic Doray and his colleagues have also produced some award-winning work. In 1975, the department won first prize and a cash award of \$2,500 for a 20-minute film entitled *Shelley*, about a girl who was born blind. In 1976 the department won first prize in an international audio-visual media competition for a program on diabetes, made in co-operation with the Canadian Diabetic Association, which has since ordered 100 copies of the slide-tape program for patient education.

Individual members of the department have also received awards. Fred Herzog, head of the photo/cine division, received three awards for still photography at the same meeting that gave the department the award for its presentation on diabetes, and he was a major contributor of photographs to a book on Vancouver given to delegates to the 1976 Habitat meetings in Vancouver.

NEXT WEEK AT UBC

Notices must reach Information Services, Main Mall North Admin. Bldg., by mail, by 5 p.m. Thursday of week preceding publication of notice.

VANCOUVER INSTITUTE

SATURDAY, MARCH 19

8:15 p.m. Prof. Immanuel Wallerstein, Distinguished Professor of Sociology, State University of New York, Binghamton, speaks on **The Modern World System**. Lecture Hall 2, Woodward Instructional Resources Centre.

SATURDAY, MARCH 26

8:15 p.m. Hon. Jules Deschenes, Chief Justice, Quebec Superior Court, speaks on **Politics and the Rule of Law**. Lecture Hall 2, Woodward Instructional Resources Centre.

MONDAY, MARCH 21

12:30 p.m. **CLASSICS LECTURE**. Prof. Walter Burkert, University of Zurich and University of California at Berkeley, on **Myth and Ritual: Structural Theories and Historical Perspectives**. Room 106, Buchanan Building.

CANCER RESEARCH SEMINAR. Wally Thomas, Hematology Unit, VGH, on **Immunotherapy in Non-Hodgkins Lymphoma**. Library, Block B, Medical Sciences Building.

3:30 p.m. **METALLURGY SEMINAR**. Dr. M. Cross, British Steel Corp., England, on **Mathematical Modelling of the Induration Process of a Grate-Kiln-Cooler Pellet Plant**. Room 308, Metallurgy Building.

MANAGEMENT SCIENCE SEMINAR. Prof. D. Wehrung, Commerce and Business Administration, UBC, on **Risk Attitudes of Canadian and American Businessmen**. Room 321, Angus.

3:45 p.m. **MECHANICAL ENGINEERING SEMINAR**. R. Strachan, graduate student, Mechanical Engineering, UBC, on **Acoustic Radiation from Hydraulic Piping**. Room 1215, Civil and Mechanical Engineering Building.

8:00 p.m. **ART EXHIBITION** of the work of Education students majoring in Art. Continues Monday until 10 p.m.; Tuesday through Friday, 11 a.m. to 5 p.m. Art Gallery, Student Union Building.

TUESDAY, MARCH 22

12:30 p.m. **GREEN VISITING PROFESSOR**. Prof. Leonard B. Schapiro, London School of Economics and University of London, England, on **Recent Developments in Soviet Politics**. Room 106, Buchanan Building.

BOTANY SEMINAR. Dr. R. W. Allard, University of California at Davis, on **Components of Selection in Various Life-Cycle Stages in Plant Populations**. Room 3219, Biological Sciences.

HISPANIC LECTURE. Prof. Charles Aubrun, director, Institut d'Etudes Hispaniques, on **Social Aspects of the Quijote: The New and Old Economic Order**. Room 202, Buchanan Building.

1:30 p.m. **ELECTRICAL ENGINEERING SEMINAR**. R. C. Button, Crown Zellerbach, on **Applications of Computer Control in the Forest Products Industry**. Room 418, Electrical Engineering.

3:30 p.m. **APPLIED MATH AND STATISTICS COLLOQUIUM**. Prof. Heinz-Otto Kreiss, New York University and Uppsala University, Sweden, on **Numerical Methods for Problems with Different Time-Scales**. Room 1100, Mathematics Building Annex.

OCEANOGRAPHY SEMINAR. G. Samuels, Oceanography, UBC, on **Mixing Budget of the Strait of Georgia**. Room 1465, west wing, Biological Sciences Building.

4:30 p.m. **CHEMISTRY SEMINAR**. Dr. E. Ainscough, Massey University, New Zealand, on **Bio-Organic Research at Massey University**. Room 250, Chemistry Building.

ACADEMIC WOMEN'S ASSOCIATION. Beverley Green discusses **Developments in Cell Biology**. Mildred Brock Room, Brock Hall.

8:00 p.m. **ZOOLOGY SEMINAR**. Prof. A. J. Cain, Zoology, University of Liverpool, England, on **The Enigmatic Species of Cepaea**. Room 2000, Biological Sciences Building.

WEDNESDAY, MARCH 23

12 noon **PHARMACOLOGY SEMINAR**. Dr. H. C. Fibiger, Neurological Sciences, UBC, on **Catecholamines and Central Reinforcement Mechanisms**. Room 114, Block C, Medical Sciences Building.

12:30 p.m. **ZOOLOGY NOON-HOUR TRAVELS**. Jeff Green and Chris Perrin, Animal Resource Ecology, UBC, on **Reflections of a Yukon Summer**. Room 2000, Biological Sciences Building.

3:30 p.m. **STATISTICS WORKSHOP**. Prof. Stephen E. Feinberg, Applied Statistics, University of Minnesota, on **Victimization and the National Crime Survey: Problems of Design and Analysis**. Room 321, Angus Building.

4:00 p.m. **GEOPHYSICS AND ASTRONOMY SEMINAR**. Leigh Hunt Palmer, Physics, SFU, on **Computer Graphical Animation of the Gravitational N-Body Problem**. Room 260, Geophysics Building.

4:30 p.m. **BIOCHEMICAL SEMINAR**. Prof. Fred M. Richards, Molecular Biophysics and Biochemistry, Yale University, Conn., on **Chemical Approaches in the Study of Membrane Proteins**. Lecture Hall 4, Woodward Instructional Resources Centre.

SLAVONIC STUDIES SEMINAR. Prof. Leonard Schapiro, London School of Economics, discusses **Turgenev**. Penthouse, Buchanan Building.

ANIMAL RESOURCE ECOLOGY SEMINAR. Dr. John Addicott, Zoology, University of Alberta, Edmonton, on **Competition in Patchy Environments: Aphids on Fireweed**. Room 2449, Biological Sciences Building.

8:00 p.m. **SENATE MEETING**. Free tickets for interested members of the University community are available from Frances Medley, 228-2951. Board and Senate room, Old Administration Building.

THURSDAY, MARCH 24

12:15 p.m. **BIOMEDICAL COMMUNICATIONS** media show. This week's films are *Crisis Intervention*, *Ecology of Time in Psychiatry* and *Art Therapy*. Room B8, Woodward Instructional Resources Centre.

12:30 p.m. **GREEN VISITING PROFESSOR**. Prof. A. Geoffrey Woodhead, fellow, Corpus Christi College, Cambridge, on **Cursing and Swearing: Oaths and Imprecations in Ancient Greece**. Room 104, Buchanan Building.

CELL BIOLOGY SEMINAR. Dr. Tom Grigliatti, Zoology, UBC, on **Organization of Transfer RNA Genes in Drosophila**. Room 2321, Biological Sciences Building.

3:45 p.m. **APPLIED MATH AND STATISTICS COLLOQUIUM**. Prof. Michael Rubinovitch, Northwestern University and Israel Institute of Technology, on **Some Probabilistic Models for a Data Communication System**. Room 2449, Biological Sciences Building.

4:00 p.m. **PHYSICS COLLOQUIUM**. Dr. L. C. Woods, Mathematics, Oxford University, on **Onsager's Reciprocity Relations**. Room 201, Hennings Building.

8:00 p.m. **AGRICULTURE FORUM**. Prof. Benno P. Warkentin, Soil Science, McGill University, on **Food and Agriculture in a Conservator Society**. Lecture Hall 1, Woodward Instructional Resources Centre.

FRIDAY, MARCH 25

2:30 p.m. **CONDENSED MATTER SEMINAR**. Frank Di Salvo, Bell Laboratories, New Jersey, on **Charge Density Waves in Layered Compounds**. Room 318, Hennings Building.

3:30 p.m. **COMPUTER SCIENCE COLLOQUIUM**. Dr. Robert Goldstein, Commerce and Business Administration, UBC, on **The Impact of Computers on Individual Privacy - and the Impact of Privacy Laws on Computers**. Room 326, Angus Building.

CHEMICAL ENGINEERING SEMINAR. R. Gililova on **Electrochemical Production of Manganese Dioxide from Low Grade Manganese Ores**. Room 206, Chemical Engineering Building.