

UBC REPORTS

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UBC scientists get gold medals from B.C. Science Council

UBC scientists Dr. Michael Smith and Dr. Rudy Haering have won two out of three gold medals awarded this year by the Science Council of British Columbia.

The awards were established in 1980 to recognize the most outstanding scientists and technological innovators in the province. The four categories for the medals are the natural sciences, health sciences, engineering and applied sciences and industrial innovation.

Dr. Haering was awarded the prize for his research leading to the invention of a rechargeable battery that uses lithium and molybdenum disulphide. Compared with nickel-cadmium batteries it delivers three times the energy per unit of weight and has a shelf life of eight to ten years compared with two to six months.

Dr. Haering has had a distinguished career at both UBC and Simon Fraser University. He was the first head of the physics department at SFU, serving in that capacity from 1964 to 1968. During that time he helped found CTF Systems of Port Coquitlam, one of the first companies in B.C. established to manufacture products and systems developed through university research.

In 1973 he came to UBC where he was also head of the physics department until 1977. He continues as an active researcher and teacher in the department.

This past summer Moli Energy, another company Dr. Haering had a hand in creating, announced plans to establish a plant in B.C. to manufacture the new rechargeable batteries.

Dr. Smith of UBC's biochemistry department has developed a technique of great value to the field of genetic engineering.

There are millions of genes in a single cell, affecting everything from an individual's eye color to the ability of a plant to withstand cold weather. But it has proven to be a major challenge to identify the specific gene that is to be modified. Through his research Dr. Smith has discovered a way to isolate and identify specific genes, and his technique has become a standard procedure in genetic engineering throughout the world.

The third Science Council medal was awarded to a research team, Dr. Suezone

Chow of Canadian Forest Products and Dr. Gary Troughton of Forintek Canada Corporation. Their research involved a technique known as 'finger-jointing', in which pieces of wood which might otherwise be discarded are joined to make longer and stronger commercial-grade lumber.

Previous winners of the B.C. Science Council awards include UBC scientists Dr. John Brown, Dr. Harold Copp, Dr. Julia Levy, Dr. Clayton Person, Dr. David Suzuki and Dr. John Warren. No more than three medals are awarded each year.

Service open to public

A Remembrance Day service, open to the public, will be held at 10:45 a.m. on Sunday, Nov. 11, in the foyer of the War Memorial Gymnasium at the University of B.C.

The address will be given by Dr. Bernard Riedel, dean of UBC's Faculty of Pharmaceutical Sciences, and the Scripture will be read by UBC President George Pedersen.

Conducting the service will be The Right Reverend Barry Valentine, Anglican United Campus Ministry.

Music will be provided by the UBC Brass Quintet.

Vancouver Rotarians donate sound system

A sound system valued at \$14,000 has been donated to International House by the Vancouver Rotary Club.

International House has also received two donations from the Rotary Club of Vancouver South — \$500 to the Emergency Support Fund for International Students, and \$3,000 that will be used for computer facilities in International House.

International House will hold a 'Rotary Appreciation Night' on Friday, Nov. 9, starting at 7:30 p.m., to which Rotarians, International House directors and the public are invited.



The UBC music library's collection of original manuscripts has been enriched by members of the Cherniavsky family, who have been closely associated with Vancouver's musical life since the early 1930s. On the table in front of library assistant Erin Fitzpatrick are copy manuscripts — the original has disappeared — of the instrumental and vocal parts of Beethoven's Opus 116, a vocal trio for soprano, tenor and bass published in 1826. Corrections on the manuscripts are in Beethoven's handwriting. Erin holds an original manuscript of the ballet Khamma, thought to be in the handwriting of French composer Claude Debussy, commissioned in 1910 by the Canadian dancer Maud Allen. She never performed the work and it was not until 1947 that the ballet had its premiere performance in Paris.

Copping, Holubitsky, Crofts take top scholarships

Margaret Copping, a first-year law student and president of the UBC Alma Mater Society, has been awarded the University's most prestigious scholarship, the Sherwood Lett Scholarship, for 1984-85, worth \$3500.

Runnerup in the competition and winner of the \$3000 Amy E. Sauder Scholarship is Don Holubitsky, student member of the Board of Governors now completing a combined MD/PhD program after graduating in 1976 with a double honors Bachelor of Science degree.

Third winner is Anne Crofts, who completes her Bachelor of Science degree

in rehab medicine this year. Her award is the Harry Logan Memorial Scholarship, worth \$1850.

Margaret Copping was born in Toronto and graduated from Grade 13 of Hillcrest High School in Ottawa in 1972. She spent eight years in a variety of jobs (actress, ranchhand, millworker, income tax assessor, cook, etc.) before entering UBC in 1980.

Of the future, Ms. Copping says: "There are two very different career areas that interest me. One is the field of medical ethics, and the associated legal

problems. The field seems to be expanding lately to include the ethics of various technologies, and there is a lot of work to be done deciding where some of the trickier questions are settled: the law courts, the political area or the labs.

"The second area that interests me is, for lack of a better phrase, women's legal concerns. There is a great deal of law that doesn't seem to have caught up with the realities of women in the workforce and on their own."

Ms. Copping's sports activities include swimming, weightlifting, scuba diving,

skiing, windsurfing and canoeing.

Edmonton-born Mr. Holubitsky graduated from Carson Graham in North Vancouver in 1971 and entered UBC that fall. After switching from honors chemistry to combined honors in chemistry and biology, he took a year out after graduating in 1976, working for the Environmental Protection Service of Environment Canada.

Mr. Holubitsky took an unclassified year at UBC in 1977-78, then entered graduate studies and completed a master's degree

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High tech helps out fine arts

High tech has come to the aid of the fine arts at the University of B.C. in the form of the optical laser videodisc.

It's now possible for the 1,409 students enrolled in the 68 courses being offered in the Department of Fine Arts this year to have instant access to its collection of 100,000 color slides simply by sitting in front of a television set and calling up the slides with an easily operated remote control unit.

The UBC videodisc system is unique in Canada and is one of two in the whole of North America. The other has been developed by the U.S. National Gallery of Art in Washington, D.C., which has put some of its vast collection of paintings on videodisc.

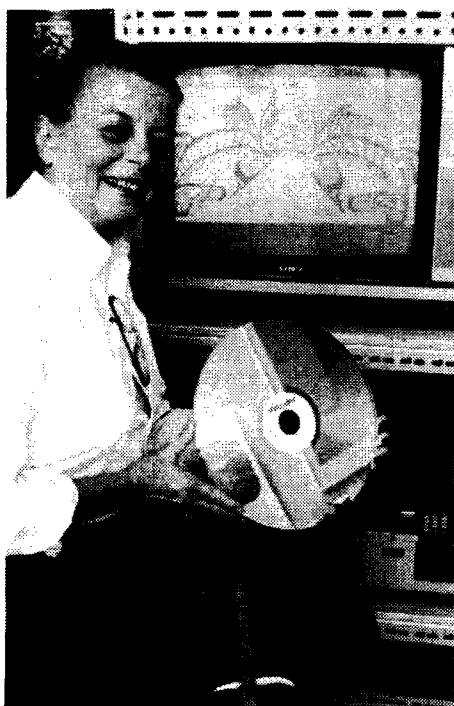
The 100,000 slides imprinted on the single UBC videodisc cover almost the entire range of world painting as well as specialized areas of study such as Byzantine and early Christian art, stained glass, illuminated manuscripts, photography and films, maps, mosaics and most styles of architecture.

Installation of the videodisc system solves a long-standing problem for students, says Prof. James Caswell, the head of the UBC Fine Arts department.

"For years we have hoped to have some means whereby students could have access to the images which are used by teachers in the classroom. We simply don't have the financial resources, the space or the personnel necessary to allow students to have access to the some 100,000 slides that teachers use to illustrate their lectures.

"In addition, the textbooks chosen for courses are rarely comprehensive enough to meet all the needs of students, and the resources of the fine arts division of the UBC Library are severely strained in providing visual materials in book and other forms.

"Modern technology in the form of the videodisc now makes it possible for students to have access to our entire collection in circumstances that allow them to study paintings, art objects and architecture in depth any time the Library is open. And the



Fine arts slide librarian Barbara Hopkins holds optical laser videodisc, which has UBC's entire collection of 100,000 color slides imprinted on it. To view slides on five TV sets located in the fine arts division of UBC's Main Library, students use an easily operated remote control unit.

project was carried out at very reasonable cost — less than \$50,000."

Prof. Caswell credits three people with making the whole thing possible — UBC Arts dean Robert Will, who provided the funds for the project; fine arts slide curator Barbara Hopkins, who organized the UBC slide collection for the transfer process; and innovative film maker and UBC graduate Chris Gallagher, now teaching at the University of Regina, who came up with the idea of putting the UBC slide collection on to videotape, which in turn was transferred on to videodisc.

All 100,000 of the UBC slides have been imprinted on a single, grooveless disc about the size of a normal long-play record.

A smooth, plasticized coating imparts a silvery sheen to the disc.

The disc is extremely durable because no mechanical stylus touches the surface. Instead, the information imprinted on the disc is "read" by a laser light beam reflecting off the surface of the spinning disc, thus eliminating the wear and tear that results from stylus friction on a record.

And unlike color slides, which deteriorate over time as the result of heat from the projection machine, the information stored on the videodisc will never deteriorate and will continue to reproduce bright images throughout its life.

The UBC videodiscs are sealed inside six player units, each about the size of a stereo amplifying unit, which are linked to a television set. Students simply plug a remote control key-pad unit into the TV set and by punching a set of five code numbers can call up slides showing the arts and architecture of almost every nation in the world as well as slides illustrating some specialized areas of study.

The UBC system doesn't have any printed material that explains what the viewer is seeing or its significance in the history of art. That kind of information is given to the student by his or her teacher in the course of lectures, together with a code number that allows the student to study the classroom slides on the TV sets in the fine arts division of the UBC Library.

Students are enthusiastic about the system. Some comments: "It saves a lot of time. The slides you see in the classroom are taken from many sources, which means you have to hunt through a lot of books to find them. And many of the library books, because of high demand or value, can't be checked out for home use."

"I sometimes have trouble trying to remember what a painting, say, or a carving I saw six months ago on a classroom slide looks like. With the videodisc I can study it as long as I want to and read the notes I made about it earlier."

"It's terrific. You get a much bigger and often a better reproduction on the TV screen than you'll find in any textbook."

GRANT DEADLINES

Faculty members wishing more information about the following research grants should consult the Research Administration Grant Deadlines circular which is available in departmental and faculty offices. If further information is required, call 228-3652 (external grants) or 228-5583 (internal grants).

DECEMBER

(Deadline date in brackets)

- Agriculture Canada —Operating Grant (1)
- Agriculture Research Council of Alberta —Farming for the Future (1)
- American Council of Learned Societies —Eastern European Studies Grant (1) —Grants-in-Aid (15) —Mellon Fellowships for Chinese Studies (1)
- Association of Commonwealth Universities —Commonwealth Medical Fellowships (31)
- Baker, E.A. Fdn. for Prevention of Blindness —Fellowship (15) —Research (15)
- Canada Council: Arts Awards —Visiting Foreign Artists (15)
- Canadian Cancer Society —McEachern Fellowships (1)
- Canadian Fedn. of Univ. Women —Graduate Fellowships for Women (15)
- Canadian Life & Health Insurance Assoc. Inc. —Medical Scholarships (15)
- Canadian Lung Association —Fellowship (15) —Research (15)
- Cattell, James McKeen Fund —James McKeen Cattell Sabbatical Award (1)
- Damon Runyon-Walter Winchell Cancer Fund —Cancer-directed Fellowship (15) —Postdoctoral Fellowship Grant (15)
- Deutscher Akadem. Austauschdienst (DAAD) —Study Visits of Foreign Academics (1)

- Donner Canadian Foundation —Program and Research (1)
- Environment Canada: Atmospheric Envir. —Science Subvention Program (31)
- Environment Canada: Inland Waters Dir. —Water Resources Research Support Program (3)
- Fisheries and Oceans Canada —Science Subvention Program (1)
- Hamilton Foundation —E.B. Eastburn Fellowship Fund (31)
- Health & Welfare Canada: NHRDP Projects —NHRDP Demonstration Projects (1) —NHRDP Preliminary Development Projects (1) —NHRDP Research Grant (1) —NHRDP Studies (1)
- Health & Welfare Canada: Welfare —Human Resource Development Project (15) —National Welfare Grant (15) —National Welfare: Research Group Development (15)
- Huntington Society of Canada —Postdoctoral Fellowship (31) —Research in Huntington's Disease (31)
- International Agency for Research on Cancer —Fellowships for Research Training in Cancer (31) —Visiting Scientist Award (31)
- International Union Against Cancer —Yamagiwa-Yoshida Int'l Cancer Study Grants (31)

Faculty gets new officer

Andrew Brockett, executive officer of the UBC Faculty Association for more than six years, has resigned to take a new position at the University of Lethbridge.

He will become the executive officer in the office of the vice-president academic.

Replacing him as executive officer of the 2,000-member faculty association is Geoff Crampton, formerly with Personnel Services.

- Japan Foundation —Fellowship Programs (1) —Institutional Project Support Programs (1) —Research Program (1)
- Lady Davis Fellowship Trust —Fellowships (1) —Visiting Professorships (1)
- Malignant Hyperthermia Assoc. —Grant-in-Aid (15)
- MRC: Awards Program —Centennial Fellowship (1) —MRC Fellowship (1)
- MRC: Grants Program —Biotechnology Development Program (1)
- MRC: Special Programs —INSRM/MRC Exchange (1)
- National Multiple Sclerosis Soc. (U.S.) —Junior Faculty Awards (preliminary proposals) —Postdoctoral Fellowships (preliminary proposals) —Research (preliminary proposals)
- National Museums of Canada —Research Contract (1)
- National Research Council (Intl. Relations) —Natl. Recherche Scientifique-France Exchange (31)
- North Atlantic Treaty Organization (Roy. Soc.) —Research Fellowship (31)
- North Atlantic Treaty Organization —Senior Scientist Program (15)
- NSERC: Vector Computer Facility —Dorval Vector Access (1)
- Social Science Res. Council (US) —International Research (1)
- Stanford Humanities Center —Marta Sutton Weeks Fellowships (15)
- University of British Columbia —Arctic & Alpine Research Grants (3)
- WHO: Intl. Agency for Cancer Res. —see: Intern. Agency for Research on Cancer (31)
- Woodward's Fdn. (Mr. & Mrs. P.A.) —Foundation Grants (1)
- World University Services —Awards to Foreign Nationals: Fellowships (1)

Note: All external agency grant applications must be signed by the Head, Dean, and Dr. R.D. Spralley. Applicant is responsible for sending application to agency.

CAMPUS PEOPLE

Dr. John L. McMullan of the Department of Anthropology and Sociology has been elected chairperson of the Social Policy Committee of the Canadian Sociology and Anthropology Association for 1984-1987. He is also serving as a member of the executive committee of the Canadian Sociology and Anthropology Association for the same three-year period.

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Prof. Margaret Prang of UBC's Department of History has received an Award of Merit from the American Association for State and Local History in recognition of her contributions to the study of B.C. affairs. The award was made specifically for Prof. Prang's contributions as one of the founding editors of the journal *B.C. Studies*.

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Dr. Noel Nathan of the civil engineering department has been awarded the prestigious T.Y. Lin Award for a paper entitled *Slenderness of Prestressed Concrete Columns*, which was published in the *PCI Journal of the Prestressed Concrete Institute* in Chicago.

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Prof. Chuck Brawner of UBC's mining and mineral process engineering department was honored recently by the society of Mining Engineers and the American Institute of Mining, Metallurgical and Petroleum Engineers for his book *Stability in Underground Mining II*.

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Dr. Richard Pollay, a member of the commerce faculty, has just returned from the University of Illinois where he was a scholar in residence. Dr. Pollay is an expert in the history of advertising.

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Dr. V.J. Modi of UBC's mechanical engineering department has been invited by the Indian Society of Theoretical and Applied Mechanics to deliver a memorial lecture in December honoring applied mathematician Dr. B.R. Seth.

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Prof. A.L. Mular, acting head of the mining and mineral process engineering department, has been named the recipient of the Engineering Undergraduate Society's Walter Gage Teaching Award for 1984. Prof. Mular was also recently appointed chairman of the mining, minerals and metals evaluation subcommittee of the Science Council of B.C.

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Dr. John Grace of the Department of Chemical Engineering delivered the 1984 Gzowski Society Lecture at the University of Western Ontario last month. He was also selected as the fifth recipient of Western's L.S. Lauchland Engineering Science Alumni Medal in recognition of outstanding contributions to the engineering profession.

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Dr. Sheldon C. Naiman, clinical professor in UBC's Department of Pathology in the Faculty of Medicine, has received an award of excellence in clinical teaching. It is the first annual award made by the Professional Association of Interns and Residents of B.C.

The award is accompanied by a plaque and \$500. Dr. Naiman has donated the money to the hematology research fund at VGH.

Scholarships

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in anatomy in 1980. In 1981, he switched his program to a combined MD/PhD, doing both research and medical studies concurrently.

Although scholarships have supported him since he entered graduate studies, Mr. Holubitsky worked at a variety of jobs as an undergraduate — hospital porter, jackhammer operator, mattress maker, auto mechanic, traffic painter, telecommunications installer, and economic survey worker.

His sporting interests include soccer, softball, skiing, scuba diving, sailing and sports car racing.

Of the future, Mr. Holubitsky says his education gives him a number of options, including research or academic medicine, and medical practice.

"At present, I wish to finish my doctorate, perhaps in combination with a residency program, and to qualify for medical practice.

"An area of interest that I would like to pursue at some point in the future deals with the interface between medicine and society, in legal, economic and social terms. It is clear that with the recession, the changing demographics of our society, and increasing burdens carried by taxpayers, our medical system will require

substantial restructuring in the future. I would like to contribute to this process."

Ann Crofts moved from Matsqui to Vancouver in 1966 and graduated from Vancue in 1977. She got her bachelor's degree in physical education in 1983 and after obtaining her BSc degree this coming spring she will begin an internship in physiotherapy and occupational therapy.

"Currently I have three major career objectives. I would like to work in a third world country, perhaps within an exchange program, to fill an obvious need in these areas and also to gain much valued experience which will benefit my work in the long term. Following this, I have plans to pursue graduate work as I recognize a definite need for research in this field, particularly with regard to the development of objective studies in rehabilitation medicine.

"Ultimately, I wish to hold a senior position in a hospital or seek employment in a university so that I can continue with my research and play a part in the education and training of future therapists."

Ms. Crofts has been captain of the UBC field hockey team since 1979 and has toured internationally as a member of the Canadian national team. In her earlier years, she played basketball for Magee and was a member of the Kerrisdale Figure Skating Club and the Kerrisdale Swim Club.

Gairdner award to UBC

Dr. Robert L. Noble has received a Gairdner Foundation International Award, the fourth scientist from UBC to be so honored.

The award was for Dr. Noble's outstanding contributions to medical science. He is best known for his discovery of vinblastine, an extremely powerful anti-cancer drug which he extracted from the periwinkle plant, used as a common ground cover.

Dr. Noble, professor emeritus in the physiology department in UBC's Faculty of Medicine and former director of the

Cancer Research Centre at UBC, made his discovery while at the University of Western Ontario. He continued his research at UBC, retiring in 1975. He is now with the Cancer Control Agency of B.C.

Dr. Noble will give a lecture on "An Adventurous Half-Century in Medical Research" in lecture hall six of the Woodward Building at 4 p.m. on Mon., Nov. 5.

The award comes with a cash prize of \$15,000. Awards have been made to 168 scientists around the world since the Gairdner Foundation was created in 1957.

UBC pianists off to Europe

Two members of UBC's Department of Music will give a total of 13 piano recitals in major European centres in the months of November and December.

Assistant professor of music Jane Coop leaves Vancouver Nov. 9 for a month-long tour that will take her to Belgrade, Budapest, Warsaw, Prague and Moscow before she returns to Canada on Dec. 8.

In Budapest, she'll play Beethoven's second piano concerto with one of Hungary's leading symphony orchestras conducted by Janos Sandor, who issued the initial invitation to Ms. Coop through the Hungarian branch of Jeunesse Musicale.

Canada's external affairs ministry asked Ms. Coop to undertake an extension of her Hungarian tour to give recitals in Poland,

Czechoslovakia and the U.S.S.R.

In her solo recitals, Ms. Coop will play a program which includes works by Bach, Hadyn, Mozart and Canadian composer Jacques Hetu.

Prof. Robert Silverman, who toured the Far East in the spring of this year under the auspices of the external affairs ministry, will be in London and Paris for two solo recitals in November.

He'll play in London's Queen Elizabeth Hall Nov. 13 at a concert arranged by Canada's high commissioner and in Paris on Nov. 17 at the Canadian Cultural Centre at a concert arranged by the Canadian embassy.

His program will include works by Brahms, Bartok, Rachmaninoff and Hetu.

UBC CALENDAR

CALENDAR DEADLINES

For events in the weeks of Nov. 18 and 25, material must be submitted not later than 4 p.m. on Thursday, Nov. 8. Send notices to Information Services, 6328 Memorial Road (Old Administration Building). For further information call 228-3131.

The Vancouver Institute.

Saturday, Nov. 3
Artificial Intelligence and the Human Mind. Prof. Zenon Pylyshyn, director, Centre for Cognitive Science, University of Western Ontario.

Saturday, Nov. 10
Pornography. Prof. Catherine MacKinnon, Law, University of Minnesota.

Both lectures take place in Lecture Hall 2 of the Woodward Instructional Resources Centre at 8:15 p.m. Admission is free.

SUNDAY, NOV. 4

Vancouver Youth Symphony.

The Vancouver Youth Symphony Orchestra opens its 1984/85 season with an all division concert. Tickets are \$5 general, \$2 for students and seniors (for information on obtaining tickets, call 875-1661). Old Auditorium. 2 p.m.

SUB Films.

The Rocky Horror Picture Show and *Frankenstein*. Auditorium, Student Union Building. 7 p.m.

Lutheran Campus Centre.

Religion in the Colonies: Church History in B.C. Chuck Anderson, historian. Lutheran Campus Centre. 7 p.m.

MONDAY, NOV. 5

History of Medicine Lecture.

Contemporary Family Practice. Dr. Mark Longhurst, Family Practice, UBC. Room 80B, Woodward Instructional Resources Centre. 8:30 a.m.

Mahlzeit.

An opportunity to hear and speak German. Everyone welcome. International House. 12:30 p.m.

Plant Science Seminar.

A Model to Evaluate Carrying Capacities for Stock Ranges in the Prince George Range Management District. Dr. J.D. Graham, Agricultural Economics, UBC. Room 342, MacMillan Building. 12:30 p.m.

Oral and Maxillofacial Surgery Lecture.

A Rational Approach to the Management of Temporomandibular Joint Disorders. Dr. Daniel M. Laskin, Oral and Maxillofacial Surgery, Medical College of Virginia. The Paul Rondeau Memorial Lecture. Lecture Hall 3, Woodward Instructional Resources Centre. 12:30 p.m.

Committee on Lectures.

America and the Weimar Republic: The Dangers of the Present and the Lessons of the Past. Prof. Peter Sloterdijk, Philosophy and German Literature, University of Munich. Room 316, Buchanan Building. 12:30 p.m.

The Pedersen Exchange.

An opportunity for members of the University community to meet with President George Pedersen to discuss matters of concern. Persons wishing to meet with the president should identify themselves to the receptionist in the Librarian's office, immediately to the left of the main entrance to the Main Library. 3:30 to 5 p.m.

Mechanical Engineering Seminar.

Savonius Rotor Irrigation System. N. Roth. Dynamic Response of Guided Circular Saws. B. Lehmann. Room 1202, Civil and Mechanical Engineering Building. 3:30 p.m.

Germanic Studies Seminar.

Kritik der Zynischen Vernunft (in German). Prof. Peter Sloterdijk, Philosophy and German Literature, University of Munich. Penthouse, Buchanan Building. 3:30 p.m.

Applied Mathematics Seminar.

How to Do Statistics by the WKB Method. Dr. Marc Mangel, Mathematics, University of California, Davis. Room 229, Mathematics Building. 3:45 p.m.

Medicine Lecture.

An Adventurous Half-Century (1934-1984) in Medical Research. Robert L. Noble, professor emeritus of Physiology, UBC. Lecture Hall 6, Woodward Instructional Resources Centre. 4 p.m.

Zoology Physiology Group Seminar.

The Strange Story of the Hydrogen Ion. Dr. P.A. Stewart, professor emeritus of Medical Science, Brown University. Room 2449, Biological Sciences Building. 4:30 p.m.

Vancouver School of Theology Lecture.

Daughters to Susanna: Women and Ministry in the Methodist Tradition. Dr. Gerald Hobbs. Chancellor Building, 6050 Chancellor Blvd. 7:45 p.m.

TUESDAY, NOV. 6

Marketing Workshop.

Empirical Comparisons of Consumer Satisfaction Models. David Tse, Commerce, UBC. Penthouse, Angus Building. 12:30 p.m.

Chemistry Lecture.

Synthetic Studies in Quassinoids. Prof. Paul A. Grieco, Chemistry, Indiana University. Room 250, Chemistry Building. 12:30 p.m.

Botany Seminar.

Accumulation of Alkaloids in Plant Cell Cultures. F. Constabel, NRC, Saskatoon. Room 3219, Biological Sciences Building. 12:30 p.m.

Oceanography Seminar.

Phytoplankton and Nitrogen: Tidal Mixing and the Ammonia Gulp. Dr. John Parslow, Oceanography, UBC. Room 1465, Biological Sciences Building. 3:30 p.m.

Faculty Women's Club.

Prof. Malcolm McGregor will give a talk and slide presentation "Outside Athens." Husbands and friends invited. Cecil Green Park. 8 p.m.

WEDNESDAY, NOV. 7

Pharmacology and Therapeutics Seminar.

Actions of General Anaesthetics as Revealed by ZAPing the Neurons. Dr. E. Puil, Pharmacology and Therapeutics and Anaesthesia, Medicine, UBC. Room 317, Block C, Medical Sciences Building. 12 noon.

Ethnic Studies Lecture.

The Double in Ethnic Writing. Eli Mandel, poet and critic. Room A104, Buchanan Building. 12:30 p.m.

Noon-Hour Concert.

Music of Hindemith, Albeniz, Mendelssohn and Smetana. Rita Costanzi, harp. Recital Hall, Music Building. 12:30 p.m.

Forestry Seminar.

The Interaction of Light with Phytochemicals in Natural and Novel Systems. Prof. G.H.N. Towers, Botany, UBC. Room 166, MacMillan Building. 12:30 p.m.

English Colloquium.

America's Disappearing Frontier in Fiction and Art. Dr. Christine Bold. Penthouse, Buchanan Building. 3:30 p.m.

Geography Colloquium.

Geomorphology of the Southern Coast Mountains of B.C.: An Overview. Prof. Olav Slaymaker, Geography, UBC. Room 201, Geography Building. 3:30 p.m.

Animal Resource Ecology Seminar.

Fleet Dynamics and Individual Variation: Why do Some People Catch More Fish than Others? Dr. Ray Hilborn, Animal Resource Ecology, UBC. Room 2449, Biological Sciences Building. 4:30 p.m.

Cerebral Palsy Lecture.

Stress and Stress Management, Angela Kwok, social worker; and The Art of Encouragement, Edna Nash, counselling psychologist. Activity Room, Vancouver Neurological Centre, 1195 W. 8th Ave. 7 p.m.

Frederic Wood Theatre.

Opening night of William Shakespeare's *Twelfth Night*. Continues through Saturday, Nov. 17 (except Sunday). For ticket information and reservations, call 228-2678. Frederic Wood Theatre. 8 p.m.

THURSDAY, NOV. 8

Geological Sciences Lecture.

Effects of Thrust Faulting on Organic Maturation in the S.E. Cordillera. Dr. Marc Bustin, Geology, UBC. Room 330A, Geological Sciences Building. 12:30 p.m.

UBC Chamber Strings.

Music of Mozart and Dvorak. John Loban and Eric Wilson, directors. Recital Hall, Music Building. 12:30 p.m.

History Presentation.

Night and Fog, dealing with the extermination of Europe's Jews. First of three special features on the Nazi experience in Europe, 1933-1945, presented by the Department of History. Room A205, Buchanan Building. 12:30 p.m.

Koerner Lecture.

Sexual Discrimination and the Law. Dr. Catherine MacKinnon, Law, University of Minnesota. Rooms 101/102, Curtis Building. 12:30 p.m.

Co-operative Education Information Meeting.

First-year Applied Science and first-year Science students are invited for an information meeting on co-op education. Mrs. M. Gilmore, co-ordinator. Room 200, Computer Science Building. 12:30 p.m.

Condensed Matter Seminar.

Charge Density Wave Conduction: Noise and Bistable Configurations in the Pinned State. N.P. Ong, University of Southern California. Room 318, Hennings Building. 2:30 p.m.

Environmetrics Seminar.

Interpolation of Spatial Covariance Patterns with Application to Acid Deposition Data. Dr. P.D. Sampson, Statistics, University of Washington. Room 101, Ponderosa Annex C. 3:30 p.m.

Mathematics Colloquium.

Network Flows Approach for Matrices with Given Row and Column Sums. Prof. Richard Anstee, UBC. Room 1100, Mathematics Building Annex. 3:45 p.m.

Physics Colloquium.

Bell's Theorem and Non-Locality. Peter Rastall, Physics, UBC. Room 201, Hennings Building. 4 p.m.

Zoology Seminar.

Studies on Voltage-Dependent Calcium Channels in Paramecium. Dr. Ching Kung, University of Wisconsin, Madison. Room 2000, Biological Sciences Building. 4:30 p.m.

SUB Films.

Puberty Blues. Continues until Nov. 11 with shows at 7 and 9:30 p.m. on Friday and Saturday and at 7 p.m. on Sunday. Auditorium, Student Union Building. 7 p.m.

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Thursday, Nov. 8 (Continued)

CUSO Presentation.

Women Feed the World. A talk on nutrition and women in development. Candia Alleyne, nutritionist who worked in Grenada. Free admission. Sponsored by CUSO-UBC. International House. 7:30 p.m.

Friends of the Geological Museum.

Joe Nagel, curator, will present a program entitled **Galapagos - An Introduction to Eden.** All are welcome, but seating is limited. Room 135, Geological Sciences Centre (adjoining the museum area). 8 p.m.

Men's Basketball.

Buchanan Classic. Simon Fraser University. 8 p.m.

FRIDAY, NOV. 9

Music Conference.

Day one of the American Society of University Composers Conference. The following events take place in the Recital Hall of the Music Building: Honored works of Vancouver finalists in the 1983/84 CBC National Radio Competition for Young Composers, 12:30 p.m.; Contemporary chamber music, 7:30 p.m.; Contemporary choral and wind ensemble music, 8:30 p.m. For more information, call 228-3468.

Linguistics Colloquium.

The Grammar of Focus. Michael Rochemont, Linguistics, UBC. Room D224, Buchanan Building. 3:30 p.m.

Leisure and Cultural Studies Seminar.

Leisure, Politics, and Social Theory. Richard Gruneau, Recreation and Leisure Studies, UBC. Penthouse, Buchanan Building. 3:30 p.m.

Continuing Education Lecture.

The Power of Limits: Proportional Harmonies in Nature, Art and Architecture. Gyorgi Doczi. Cost is \$7, \$5 for students. Free (and a prerequisite) for those attending the Saturday workshop. Room 102, Lasserre Building. 8 p.m.

Men's Basketball.

Buchanan Classic. War Memorial Gym, UBC. 8:30 p.m.

SATURDAY, NOV. 10

Continuing Education Workshop.

A workshop on **The Power of Limits: Proportional Harmonies in Nature, Art and Architecture.** Gyorgi Doczi. Fee is \$25, which includes Friday evening lecture. Registration information at 222-5261. Room 102, Lasserre Building. 10 a.m. to 3 p.m.

Music Conference.

Day two of the American Society of University Composers Conference. The following events take place through the day: Barry Truax speaks on **Interactive Computer Music Composition**, Room 113, Music Building, 11 a.m.; **Recital of Solo and Computer Music**, Recital Hall, Music Building, 2 p.m.; Theo Goldberg speaks on **From Graphic Notation to Isomorphism**, Room 113, Music Building, 4 p.m.; **Coast to Coast Ensembles**, Recital Hall, Music Building, 8 p.m. Details at 228-3468.

Men's Basketball.

Grad game. War Memorial Gym, 2 p.m.

SUNDAY, NOV. 11

Remembrance Day Service.

Address by Dr. Bernard Riedel, dean of UBC's Faculty of Pharmaceutical Sciences and co-ordinator of Health Sciences; Scripture read by UBC President George Pedersen; service conducted by The Rt. Reverend Barry Valentine, Anglican United Campus Ministry. Music provided by the UBC Brass Quintet. The service is open to the public. Foyer, War Memorial Gym. 10:45 a.m.

Music Conference.

Day three of the American Society of University Composers. Music for Guitar and Woodwind Ensembles: Music of A. Genge, M. Baker, E. Arteaga, W. Billingsley and E. Weisgarber. Museum of Anthropology. 2:30 p.m. Information: 228-3468.

MONDAY, NOV. 12

Remembrance Day. University closed.

TUESDAY, NOV. 13

UBC Wildlife Club.

Public forum. Farley Mowat "Sea of Slaughter". Room 110, Angus Building. 12:30 p.m.

Chemistry Lecture.

Laser Enhanced Trace Metal Detection. Prof. Joel M. Harris, Chemistry, University of Utah. Room 250, Chemistry Building. 12:30 p.m.

Oceanography Seminar.

Whole-Lake Fertilization of B.C. Lakes for the Enrichment of Sockeye Salmon. Dr. John Stockner, Fisheries and Oceans Canada. Room 1465, Biological Sciences Building. 3:30 p.m.

WEDNESDAY, NOV. 14

Pharmacology and Therapeutics Seminar.

GABA: Co-existence and Interactions with Hormones and Transmitters. Dr. Steve Vincent, Neurological Sciences, Medicine, UBC. Room 317, Block C, Medical Sciences Building. 12 noon.

Ethnic Studies Committee.

Cyril Dabydeen, Guyana-born author of *Still Close to the Island*, will read from his work and discuss the Caribbean experience in Canada. Room A104, Buchanan Building. 12:30 p.m.

Cecil and Ida Green Lecture.

Tumor Markers: The Footprints of Cancer. Dr. Phil Gold, Medicine and Physiology, McGill University, and physician-in-chief, Montreal General Hospital. Lecture Hall 6, Woodward Instructional Resources Centre. 12:30 p.m.

Noon-Hour Concert.

Music of Handel, Duparc, Poulenc, Strauss, Obradors, Beckwith, Rachmaninoff and Granados. Alexandra Browning, soprano, and Philip Tillotson, piano. Recital Hall, Music Building. 12:30 p.m.

Forestry Seminar.

Semiochemicals for the Mountain Pine Beetle: A New Defense Against a Cruel Assassin. Prof. John H. Borden, Biological Sciences, SFU. Room 166, MacMillan Building. 12:30 p.m.

Geography Colloquium.

Channel Stability of the Lower Fraser. David McLean, Geography, UBC. Room 201, Geography Building. 3:30 p.m.

Geophysics Seminar.

Heat Flux Measurements in Southwestern British Columbia: The Thermal Consequences of Plate Tectonics. Dr. T.J. Lewis, Pacific Geoscience Centre, EMR, Sidney, B.C. Room 260, Geophysics and Astronomy Building. 4 p.m.

Animal Resource Ecology Seminar.

Seasonal Plankton Dynamics in Oligotrophic Lakes. Dr. Carl Walters, Animal Resource Ecology, UBC. Room 2449, Biological Sciences Building. 4:30 p.m.

Cinema West.

The Great Gatsby. Auditorium, Student Union Building. 7:30 p.m.

THURSDAY, NOV. 15

Libraries and Unions.

Libraries and Unions: Community or Conflict? As part of an ongoing program exploring issues of concern to society and librarianship, Library School students will be presenting a panel discussion on the roles of unions in libraries. Four women library workers, active in their unions will be leading a lively and participatory discussion. All interested are very welcome. Room 835, Main Library. 12:30 p.m.

Religious Studies/Medieval Studies Lecture.

The Compositional Relationship between the Chanson de Jerusalem and the Gran Conquista de Ultramar. Prof. Nigel Thorp, Glasgow University. Room B323, Buchanan Building. 12:30 p.m.

History Presentation.

Video taped BBC broadcast, "Auschwitz and the Allies," courtesy of Dr. Rudolf Vrba, escapee from Auschwitz. Second of three special features on the Nazi experience in Europe, 1933-1945, presented by the Department of History. Room A205, Buchanan Building. 12:30 p.m.

Geological Sciences Seminar.

TBA. Dr. Neil Church, B.C.D.M. Room 330A, Geological Sciences Building. 12:30 p.m.

University Singers.

Folk Songs and Music of Brahms, Ligeti, Petrassi and Chatman. James Fankhauser, conductor. Recital Hall, Music Building. 12:30 p.m.

Condensed Matter Seminar.

New Methods for Studying Extrinsic Systems in Semiconductors. Mike Thewalt, SFU. Room 318, Hennings Building. 2:30 p.m.

Mathematics Colloquium.

A Survey of Infinite-Dimensional Dimension Theory and Dimension-Raising Maps. Prof. Richard Schori, Oregon State University and University of Washington. Room 1100, Mathematics Building Annex. 3:45 p.m.

Physics Colloquium.

Galactic Cannibalism. Peter Quinn, California Institute of Technology, Pasadena. Room 201, Hennings Building. 4 p.m.

SUB Films.

Fooloose. Continues until Nov. 18 with shows at 7 and 9:30 p.m. on Friday and Saturday and at 7 p.m. on Sunday. Auditorium, Student Union Building. 7 p.m.

CUSO Development Education Series.

What is International Development? Free admission. For further information, phone CUSO office, 9 a.m. to 1 p.m. at 228-4886. International House. 7:30 p.m.

FRIDAY, NOV. 16

Leon and Thea Koerner Lecture.

Augustine and Oedipus: The Pattern of Conversion. Prof. John Freccero, chairman, Comparative Literature, Stanford University. Room A104, Buchanan Building. 12:30 p.m.

Linguistics Colloquium.

On Creolization and First Language Acquisition. Henry Davis, Linguistics, UBC. Room D224, Buchanan Building. 3:30 p.m.

Women's Basketball.

UBC vs. University of Winnipeg. War Memorial Gym. 8 p.m.

University Singers.

Folk Songs and Music of Brahms, Ligeti, Petrassi and Chatman. James Fankhauser, conductor. Recital Hall, Music Building. 8 p.m.

Notices . . .

Toastmasters

Walter Gage Toastmasters invites students, faculty and staff interested in improving their public speaking ability to attend the weekly meetings held at 7:30 p.m. on Thursdays in Room 278 of the MacMillan Building. For more information, contact Jock Yorsh (731-6622) or Bill Brendon (268-8784).

Exhibit

Vancouver School of Theology presents an exhibition of **Methodist Heritage, 1784-1984**, daily 2-4 p.m., Nov. 5-23. The exhibition will include unique historic items pertaining to the development of 200 years of Methodism in England and North America.

Social Work workshops

The following continuing education workshops are being offered by UBC's School of Social Work: **Developing Skills in Field Instruction**, 4 Tuesdays, Nov. 6 to 27; **Individual and Group Treatment of Adolescents**, Nov. 9 and 10; **Basic Skills in Counselling Women: The Feminist Approach**, Nov. 9; **After Assessment: What Next?** - A follow-up of assessing children, Nov. 16; **Caring Families and Aging Parents**, 2 Thursdays, Nov. 22 and 29; **Working with Sexually Abused Adolescents**, Nov. 23; **The Therapeutic Story-Telling Technique in Individual and Family Therapy**, Nov. 30; **Helping your Client with Separation**, Nov. 30; **Developing Assertiveness Training**, Dec. 7 and 8; **Adolescent Depression and Suicide**. Further details at 228-2255.

Fourteenth Medieval Workshop

The 1984 Medieval Workshop on St. Augustine of Hippo will take place on Nov. 16 and 17. The workshop opens with a Leon and Thea Koerner Lecture by John Freccero, Stanford University, entitled **Augustine and Oedipus: The Pattern of Conversion**, Buchanan A104 at 12:30 p.m. Nov. 16. Sessions of the workshop on Friday afternoon and Saturday take place in the Museum of Anthropology. Registration, including three meals, is \$40 (students \$30). Registration without meals, but including admission to the museum and coffee, is \$5 (students \$3). Programs listing all speakers and topics and registration forms are available from Maguerite Chiarenza, Hispanic and Italian Studies, Room C258, Buchanan Building, or 228-2268.

Statistical consulting

The Department of Statistics provides statistical advice and assistance to faculty and graduate students at UBC. For details, call 228-4037.

Dance Horizons

Interested students, faculty and staff are invited to join Dance Horizons, UBC's dance ensemble. Previous experience is not necessary. Rehearsals Sunday, 2-4 p.m. in the SUB Ballroom, Tuesday 6:30-8 p.m. and Thursday 5-6:30 p.m. in the SUB Partyroom. For more information, come to SUB 216E or call 228-6668.

Lost and Found

Hours of operation are as follows: Mondays - 10:30-11:20 a.m. and 12:30-2:30 p.m.; Tuesdays - 12:30-3:30 p.m.; Wednesdays - 10:30-11:20 a.m.; 12:30-1:30 p.m. and 1:40-2:40 p.m.; Thursdays - 12:30-4:30 p.m.; Fridays - 9:15-10:15 a.m. and 10:30-11:30 a.m. The Lost and Found is located in Room 108 of Brock Hall, telephone 228-5751.

Pipes and drums

Pipers and drummers among faculty, students and staff interested in playing on campus are asked to contact Dr. Edward Mornin, Germanic Studies at 228-5140.

Student film showing

A two- to three-hour showing of films made last year by students enrolled in the film and TV studies program of the Department of Theatre takes place Friday (Nov. 2) at Robson Square Cinema in downtown Vancouver. Some of the films have won awards. The showing starts at 8 p.m. and admission is free.

Ballet UBC Jazz

Ballet UBC Jazz is still registering people for a term of unlimited classes. Cost is \$45 and registration occurs Monday-Friday, 12:30-1:30 p.m. in SUB 216E.

Conversational French and Spanish classes

Six week, non-credit conversational programs begin the week of Nov. 5. For more information, contact Language Programs and Services, Centre for Continuing Education, at 222-5227.

First Class Mail

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