

# DEVELOPMENTS



A newsletter of information and opinion published by the Information Services Department for the BCIT community

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## Board endorses polytechnic plans

BCIT's Board of Governors last week approved resolutions endorsing a new role for the Institute and approved the evolution plan for BCIT's move to a polytechnic.

The Board specifically defined a polytechnic as a comprehensive institution dedicated to educating and training technicians and technologists to the certificate, diploma and degree level. The programs offered are in response to the discerned needs of industry and business in the applied sciences of management, engineering and health.

The proposal for development of a polytechnic was brought forward by the Technological Education Committee under chairmanship of John Leech, alumni representative on the Board and Secretary of the Society of Engineering Technologists of B.C.

The proposal defines a Bachelor of Technology as awarded to a Diploma of Technology graduate, or equivalent, upon completion of approximately one year of supervised educational experience in industry and business, and 1,200 hours or equivalent study beyond the diploma level.

The program for training and education

at the Bachelor level will include a balance of specialized technological theory and skills, complemented by study of relevant moral, social and political issues.

The evolution plan calls for a phasing in over a ten-year period. It asks for acceptance of the Post Diploma Task Force recommendation that the committee recommend to the administration, and through it to the Board, that BCIT actively pursue post-diploma activities and that the Deans' Committee consider pilot projects.

The evolution plan calls for the following considerations:

- That the present comprehensive diploma programs in business, health and engineering be maintained as the foundation of the polytechnic.
- That BCIT as a polytechnic consider broadening its spectrum of diploma programs with emphasis on further second year specialization.
- That BCIT as a polytechnic increase its offering in advanced inter-disciplinary study between business, engineering and health to provide entrepreneurial

technologists for the more advanced technological society of the 21st century.

- That BCIT as a polytechnic consider reducing its first-year student enrolment in those technologies where transfer arrangements with colleges can be developed.
- That BCIT as a polytechnic be given authority to offer programs to the Bachelor of Technology level with advanced programs being introduced based on discerned needs.
- That BCIT as a polytechnic place an increased emphasis on cooperative education as an integral part of the Diploma of Technology training.
- That BCIT as a polytechnic will offer all levels of education through the Continuing Education Division.
- That BCIT as a polytechnic will continue to emphasize its provincial role.
- That consideration be given to a name

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## MAC considering \$13.7 million building

Under consideration of the Management Advisory Council of B.C. is a \$13,700,000 classroom and office building for BCIT.

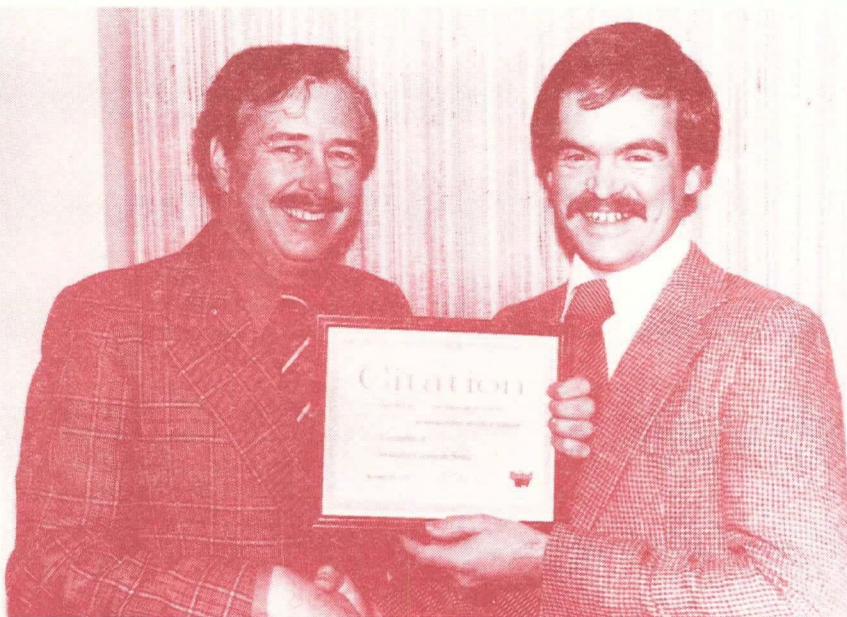
The building, containing 210,000 square feet, which is the size of the 1976 and 1967 buildings combined, has received the endorsement of the Ministry of Education after having been approved by the Board of Governors.

Exact location of the building on campus is being looked at by the Institute Planning and Facilities Committee.

Vice Principal Duncan Macpherson said the "number one priority in the capital facilities budget included provision for the new building."

He said the new building was approved by the Board and forwarded to Victoria where it received the support of the Ministry because of the desperate facility situation on BCIT's campus.

"The Ministry agreed in principle and sent it to the Management Advisory Council where it now rests," said Macpherson.



Principal Gordon Thom congratulates BCIT Housing Manager Val Karpinsky on his award from the United Appeal campaign that saw the Institute donation go over double that of last year, from \$3,900 to \$8,000. Val, who was BCIT's appeal chairman, said audio-visual presentations to 20 departments on campus helped to boost donations. He said donations can still be made through the payroll office.



# New imaging equipment may replace x-ray machine

A new piece of equipment which may eventually replace the conventional x-ray machine is being developed by Physics instructor Walter Malakoff and partner, Dr. Marko Valic of UBC.

Malakoff returned to teach half-time at the Institute this fall after pursuing his research activities while on educational leave. Already developed by Malakoff and Valic and in use in research applications in physics, chemistry and the life sciences is a compact but very versatile nuclear magnetic resonance spectrometer.

In layman's terms, the spectrometer utilizes a technique which combines radio waves and magnetic field to analyze materials. The spectrometer applies a radio frequency field to the sample being investigated causing specific nuclei to flip up at right angles to an externally applied magnetic field. When the radio frequency is turned off, the spectrometer monitors the nuclei which are forced to spin in that magnetic field as they return to a resting position.

The signal detected by the spectrometer is interpreted, usually with the aid of a computer, to determine the nature of the interaction between the nuclei and their immediate surroundings. This technique has recently been applied to the study of cells and cell membranes in the field of medicine.

## MAY ASSIST IN TRANSPLANTS

One particularly significant and immediate real-world application involves the use of a specially-constructed probehead attachment for the spectrometer which can support a live organ, such as a kidney or heart, as well as monitor its functioning and sensitivities. This probehead is presently being designed and constructed by Malakoff and Valic and is destined for use in the medical field. This capability has major implications for the success of heart, kidney and other organ transplant surgery where donor-recipient compatibility is crucial.

On a somewhat more mundane level, the Malakoff-Valic spectrometer can also be used for routine chemical analysis and one such instrument is currently being used in Columbia, South America, to analyze the flavor constituents of coffee.

Malakoff and Valic have spent the last three years developing this spectrometer. They met each other at UBC where they shared lab facilities while Malakoff was completing his M.Sc. in nuclear physics.

The two originally sought to design a system which could produce three dimensional images of at least the quality which can be obtained with x-rays but this required the development of three separate systems, a whole-body magnet, a spectro-

meter and a computer system. The computer would operate the first two systems and also analyze the information and perform the necessary graphics.

## NON-DESTRUCTIVE IMAGING

Adequate computer technology has been developed and spectrometer capability has been achieved, but the whole-body magnet is yet to come. At present, three research groups are known to be working on nuclear magnetic resonance imaging (zeugmagnetography) techniques—two in North America and one in England—and there is exchange of information.

The major advantage of this imaging technique is that, unlike x-rays, it is nondestructive.

Malakoff and Valic have received some grants, but the bulk of funds for their work has come out of their own pockets. Malakoff counts his leave from teaching duties at BCIT "a substantial contribution" to the project. UBC has given them "free" use of lab space and facilities.

# BCIT grads getting around

Hospitality and Tourism Technology Instructor John Lindenlaub received a letter from one of his 1966 graduates writing from Tallahassee, Florida. Leaving out the personal message, it seems John wrote to Tom Calnan in response to an enquiry regarding a teaching position at BCIT.

The grad's letter reads: "The information you sent on the possibility of employment at BCIT came in the same mail as a job offer from the University of Maryland. They are starting a new program in Hotel and Restaurant Management and need a coordinator. After a little soul-searching I decided that the opportunity to head a program would not come around again, so I have accepted and will start in January."

P.S. Tom tells John he is still working on his Ph.D. and only has the dissertation to complete.

P.P.S. Tom also tells John that Steve Edward, another BCIT grad, is making "quite a name for himself in Ontario and has become the leader in hotel and

restaurant education in that province." He concludes: "It looks like BCIT is getting around."

EDITOR'S NOTE: It sure is. Thanks to grads like Tom and Steve.

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## 14 colleges designated

Minister of Education Pat McGeer last week designated 14 colleges under terms of the Colleges and Provincial Institutes Act.

Designation means that each college now becomes a legal entity in its own right, headed by a college board instead of the former college council. Each college will now be able to own its own property and assets and sign its own contracts.

In making the announcement, McGeer said college boards are expected to be in place by February 1, 1979.

BCIT was not designated.

## Faculty pay raise on cheques soon

The BCIT administration's offer of a pay increase to members of the Staff Society amounting to about half of one per cent retroactive to January 1, 1978, has been accepted by the faculty group.

A memorandum of agreement is being drawn up and it is expected the retroactive pay will be attached to the first pay cheques in the New Year.

## Psych nurses pass RPN exams

Head of the Psychiatric Nursing Technology Marg Neylan was delighted with the news from the Registered Psychiatric Nurses Association that all BCIT graduates in that program were successful in the registration examinations.



## Board Notes

Assistant Deputy Minister of Education Andy Soles attended the open and closed sessions of the Board meeting.

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BCIT Alumni Association President Ian Robertson was introduced to the Board. He in turn introduced members of his executive.

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George Bedwell was re-appointed faculty representative for another two-year term under the BCIT Act.

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The Board accepted and endorsed the pilot project to adopt a Cooperative System of Education in Environmental Health Technology, subject to funding.

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The Board endorsed the new role statement for the Institute and endorsed the recommendations on the evolution of BCIT to the new role. (Enlarged story on page one.)

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It was agreed that the reporting of the Board action would be confined to "Developments", replacing the BCIT Board Summary. (Those wishing more information than presented in "Developments" are asked to contact Board Secretary Pat Maertz at local 676.)

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Next Board meeting is Thursday, January 31 at 4 p.m. in the Boardroom.

### Reception reminder

All faculty and staff are invited to attend the annual Christmas reception hosted by the Board of Governors and the Principal Wednesday, December 13.

The reception will be held from 4 to 6 p.m. in the Food Training Centre cafeteria.

### Food services closures for December

As the end of term approaches, food services are being trimmed.

December 13, the Food Training Centre closes at 1 p.m. to prepare for the Board of Governors' Christmas reception, which begins at 3:30 p.m.

The staff dining room and the 1976 servery close Friday, December 15.

The Roadrunner shuts down December 20 and the snack bar on December 21.



*Upcoming plans are discussed by Michael Hobbs, left, newly-elected Chairman of the BCIT Board of Governors, and Ian Robertson, new President of the BCIT Alumni Association.*

*The two met at the November Board meeting which saw Barbara Rae elected First Vice Chairman and John Leech Second Vice Chairman of the governing body.*

*Robertson attended the meeting to introduce his new executive and promise the Board that the Alumni Association will be an active group on campus in the coming year.*

## Svetic named to VGH Board

Vice Principal of Education Drug Svetic has been appointed BCIT representative on the Vancouver General Hospital Board of Governors.

Svetic was appointed to the position by the BCIT Board of Governors in response to a request from Health Minister Bob McClelland who asked that BCIT and UBC each appoint one person.

In a letter to the BCIT Board, McClelland asked that the "appointee be

an individual with some demonstrated skill which you feel would be useful in the administration of the hospital in this difficult period".

The bonds between VGH and BCIT are further strengthened by Svetic's appointment since McClelland two weeks ago appointed Marie Taylor, a member of BCIT's Board of Governors, as chairman of the VGH board.

## PVI-BCIT boundaries dispute settled by joint boards

A boundaries dispute between BCIT and PVI has been resolved by the Joint Boards Committee of the two institutes.

Vice Principal Duncan Macpherson said that funds have now been made available to provide replacement parking for the 540 spaces lost to the new PVI electrical building which is beginning construction in

the next few weeks.

The established boundaries run up Coard Way to Roper, along Roper to the end of the first parking area where the new electrical building will be located.

The second parking area, which was in dispute, will remain as available parking to both institutes.

## New (old) local for housing

After using a temporary telephone system since the opening of Maquinna, Housing Manager Val Karpinsky and Kathy Davies can now be reached through their former local, 606.

## Dance sold out

All tickets for the December 8 Christmas dance have been snapped up, says organizer Mark Angelo.



# Warm welcome given Nigerian guests

by Graham Fane

Several staff members have lent a helping hand to make our Nigerian students more comfortable during their stay here.

Tyrone Walls, who has taken on the responsibility of orienting the students, says that when word spread through the campus that we had a special group of students attending, faculty and staff pitched in.

Joyce Griffiths, Physics, held a Halloween party in her home for the students and the Athletics' Department provided bus transportation.

Joe Carver, Dean of Library and Audio-Visual, arranged for a variety of African newspapers and magazines so that the students can maintain contact with their homeland.

Bill Oaksford, English Department, and Owen Edwards, Mechanical Technology,

hired a bus and took the group on a tour of downtown Vancouver.

Ernie Schmutz, Manager of Campus Food Services, has spent some time in Nigeria and is familiar with the Nigerian diet, their customs—and at least a little bit of their language. The students were most impressed to be met by an administrator who was familiar with their government structure, who could communicate with them, and who could offer through Food Services a selection of Nigerian food.

Dick Melville, Director of Information Services, arranged for a newspaper ad, asking for community donations of surplus furniture.

Wynn Causier, Nursing, and friends supplied the students with pieces of furniture.

Inter-Varsity Christian Fellowship and

the Campus Life Department have arranged to take the students to a winter camp at Hemlock Valley where they will be spending an international Christmas, along with other foreign students from other campuses.

Allan Jacobs, Chaplain, who works out of the Campus Life trailer during the Wednesday three-hour break, has provided through his church, a Sunday dinner at his home. Allan spent some time in Africa and his wife is familiar with the preparation of African food.

As you can see, the response from our own campus community has been fantastic. Your efforts have made a journey half way around the world seem a little bit more like home.

Thank you, BCIT!

## Quarry new special projects coordinator

BCIT faculty member Wally Quarry has been appointed Coordinator of Special Projects SETBC/BCIT by the Society of Engineering Technologists of B.C.

A member of the first graduating Civil and Structural Technology class at BCIT, Quarry has been employed at the Institute for the past 10 years as a teacher assistant and instructor of Concrete Technology.

As Coordinator of Special Projects, Quarry will be responsible for representing

SETBC sponsored programs that have been designed to increase involvement in the professional development of students in the engineering, physical and resource technologies at BCIT and the community colleges.

His office is located in room 393, local 306. He will be happy to respond to any enquiries that students and staff may have about the Society of Engineering Technologists.

## Register now for fitness, dance courses

by Wally Rowan

Campus Recreation Coordinator

A twice-a-week aerobic fitness class begins January 17 for men and women.

Instructor Louise Preiswerck uses disco music to conduct the workouts, held Mondays and Wednesdays from 4:30 to 5:15 p.m. Cost is \$12 for 15 sessions.

For early risers, the classes will be held Mondays, Wednesdays and Fridays from 7:15 to 8:00 a.m. beginning January 17. The 23 sessions cost \$15.

Ballroom dancing, including waltz, foxtrot, rumba and jive, begins January 4.

Beginners classes will be held from 7:00 to 8:30 p.m. and intermediate from 8:30 to 10:00 p.m. Cost is \$8 for 8 sessions.

Belly dancing begins January 10, 7:15 to 8:15 p.m. \$10 for 8 lessons. Instructor is Julie Koe and registration is limited to 18.

Contemporary dance sessions begin January 4 or 8, 7:15 to 8:15 p.m. Instruction by Alice Lam includes modern ballet and interpretative dance. \$10 for 8 sessions or \$15 for 16 sessions.

Register now at the Campus Life Trailer. Classes will be held only if advance registration is sufficient, so sign up today.

## Library hours curtailed for holidays

The Library has announced its hours of operation for the holiday period.

December 16 and 17: closed

December 18-21: 8 a.m. to 4 p.m.

December 27 and 28: 8 a.m. to 4 p.m.

December 29: 8 a.m. to noon

December 30 and January 1: closed

January 2: 8 a.m. to 4 p.m.

January 3: back to normal!

## What's a good idea worth?

Ideas can help you plan and deliver a more effective technical teaching program are as close as your phone.

Call Audio-Visual Media Production and Programming at local 374.

## Polytechnic cont'd

change to reflect the new role of the polytechnic. Some possible names are:

the B.C. Polytechnic,  
the Western Canada Polytechnic,  
the Western Polytechnic,  
the Polytechnic of the Pacific and  
the Canada West Polytechnic.

- That the 1983-84 target enrolment for BCIT as a polytechnic at the present campus be 5,700 students. Subject to further study, it is suggested that student enrolment in the Bachelor of Technology programs be limited to 10 per cent.
- That the on campus population for 1983-84 be 5,400 students and that additional appropriate faculty and staff be provided to properly serve the students (300) in the industry phase of their education.
- That BCIT as a polytechnic develop admissions requirements for entry to the Bachelor of Technology program resulting in a highly selective enrolment leading to the effective placement of graduates.
- That the Minister give consideration to consulting with the Council of Ministers to determine those programs that BCIT as a polytechnic should offer for Western Canada.