

Committee identifies CBE goals for the Institute

The goals for computer-based education at BCIT are much clearer with the publication recently of an Initial Planning Document for computer based education. This is the first time a project planning approach has been used for an academic project at BCIT.

The document is the result of intense research carried out by a CBE planning group under the direction of Computer Resources director, Willy Kurz. The group has clearly identified objectives and activities and their recommendations are currently before V.P. Education, Drug Svetic for consideration. The objectives identified and agreed upon by the group are:

- to develop an initial management system for course modules on the mainframe
- Develop a staffing plan for the learning centre
- Develop, validate and implement CML (computer managed learning)
- Professional development for staff
- Develop a system to prepare students for CBE
- Develop, validate and implement CAI (computer aided instruction)
- Develop contingency plans in case of problems
- Develop physical facilities for CBE
- Provision of institute leadership in CBE

The planning group, which was established

by dean of Engineering Technology, **Ron Sterne**, is made up of **May Archer**, coordinator, Instructional Development, **Darryl Hutecheon**, Physics, **Rick Inrig**, Mathematics, **Richard Lund**, Communication Dept., **Rodney Lynn**, Mathematics, **Donna MacDuff**, Physics, **Michael Marriott**, Computer Resources, **Neil McLagan**, Computer Resources, **Jeanne Meisen**, Mathematics and Physics, **Chris Nichol**, Chemistry, **Ron Russel**, Electrical, **Ron Sterne** and **Ed Warkentin**, Electrical. The group met for the first time on October 31, 1984 to develop a common understanding of computer based education issues and to outline objectives for a CBE project at BCIT. They recommended that, "a strong project manager" be chosen to head up the development of CBE at BCIT, a role already assumed on an interim basis by department head of Mathematics and Physics, Jeanne Meisen. Rodney Lynn has been appointed acting department head in her absence.

"The implementation of CBE, says the group report, "will have a significant overall impact on BCIT and must be an Institute-

wide project. Thus, all schools and the Division of Academic Support should have equal representation in a detailed review of this document, its revisions and further development.

"Implementing CBE is a multi-year proposition. Considerable financial commitments will be required from the Institute during this period for instructional development and hardware/software facilities. An executive-level steering committee for this project is mandatory for its success."

Computers are, of course, in use all over BCIT but this does not mean we have computer based education, says Ron Sterne. Some people confuse CBE with the equally valuable but different use of the computer as a tool in traditional curriculum, like the Intergraph in CAD/CAM. CBE, on the other hand, is designed to allow students and instructors a lot more flexibility in their roles of learning and instructing.

CML (computer managed learning) allows the instructor to manage marks and track student progress and to generate and mark tests. The other part of CBE is computer assisted instruction (CAI) which allows instructors to use the computer to actually deliver instruction. Neither of these things exist as formal, integrated CBE at the

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HITRAC students in the learning centre. Electrical instructor, Ernie Kenward, second from right, answers questions from students working on a module in telecommunications. Permanent headquarters for the centre, which is currently located on the third floor of building 1A, are being prepared in the Library basement.

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present time, says Sterne, but there are examples of CML and CAI going on around campus. In the HITRAC Program, for example, Electrical instructors are already writing their modules on the micro-computer and this month Level 3 students started using these paper-based modules in the HITRAC mode, i.e. the self-paced learning format, or flexible paced as Sterne prefers to call it. Far from being left on their own to flounder or flourish at the terminal, the students' progress is monitored by the instructor and it is only when one idea has been mastered that they can proceed to the next part. A basic CML program is in place to assist the instructor to manage the learning process for the student, whose understanding of the material allows him to

either retrace his steps or proceed to the next objective. This is called competency-based learning.

Levels (or terms) 1, 2 and 4 of HITRAC are still running concurrently in the traditional classroom mode but as these move to the new delivery mode, the CML system will be augmented and expanded and CAI added in selected areas.

Sterne counters the objection that using computers in education to manage learning and instruction will necessarily result in staff layoffs.

"In Electrical, for example, staff levels have not been reduced and some increases may even be required, although fewer than would otherwise be needed to handle the increased enrolment."

Sterne heads up the Information and

Computing committee on campus, formed to oversee the implementation of all major administrative and academic computer systems at BCIT. He is responsible for ensuring that all four management information systems - ISIS (student records), GLOBAL (finance and purchasing), CHRIS (payroll/personnel) and DOBIS (Library) are implemented in an integrated fashion and was recently assigned overall responsibility for CBE. His experience has given him a keen and perceptive understanding of the role computers can play in an educational setting and he welcomes CAI and CML as an aid rather than a hindrance to the educational goals of the Institute. He welcomes any questions on the subject to be directed to him via the Messenger.

Over \$200,000 pledged to Institute through Phone Mail campaign

Pictured below with Peter Jones of the Development Group and Drug Svetic, V.P. Education, are BCIT students Debbie Pollard of Medical Radiography (left) and Debbie Burnier of Administrative Management. They were among 52 students and three Phone Mail staff congratulated last Friday for fund raising achievements on the Phone Mail campaign.

The campaign, which operates out of Trailer 1D is under the direction of Robin Coates, an employee of Phone Mail Canada Ltd. The company has been contracted by BCIT to phone all BCIT alumni on record and ask for donations to the Student Endowment Fund. Last week the Phone Mail team marked up \$202,752 worth of pledges out of 5,591 alumni reached. \$6,575.00 in cheques has been received by the Institute.

So far Phone Mail has contacted all known grads from the School of Management and is half way through the School of Engineering. Statistics recently published show that Computer Systems at \$14,115 has pledged the most money. Business Administration had the highest individual average pledge at \$530 per person and the highest pledge rate at 40 per cent out of the total number contacted. These figures are not conclusive, cautions systems coordinator Melanie Mahlman, who acts as BCIT's liaison with Phone Mail. "55 per cent of the people contacted are still considering whether or

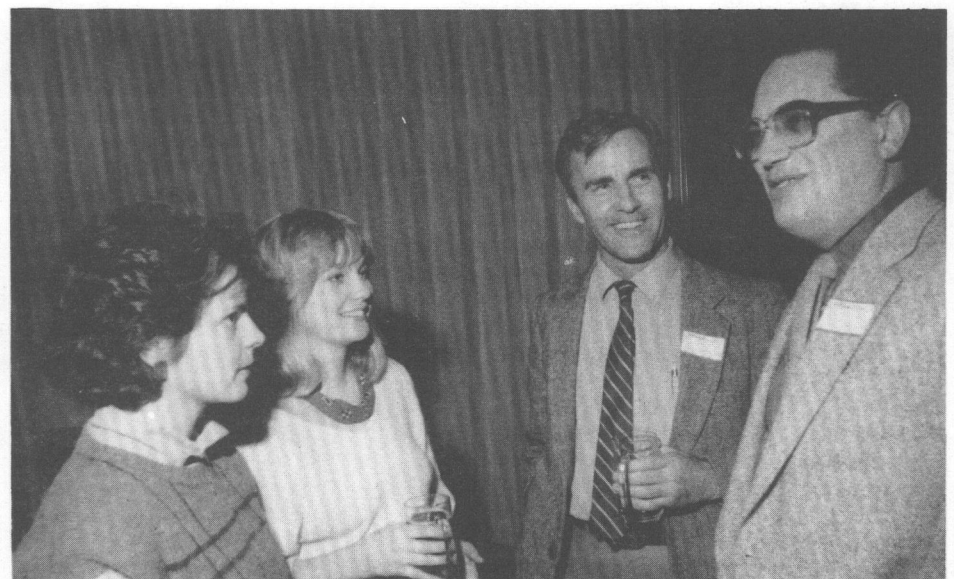
not to pledge money, so the statistics are really drawn from the 45 per cent who made decisions."

Progress made phoning grads in the School of Engineering shows that while the dollar amount of pledges is down, the actual number of people pledging is up.

One story written into the annals of Phone Mail successes was the response given by Civil and Structural '67 student Grant Maddock. He was so happy with BCIT's influence on his life that he pledged a total of \$4,000 - \$2,000 out of his own pocket and \$2,000 from his company, Pro Tech Consultants Ltd.

On the whole, students working for Phone Mail enjoy their experiences on the phone. Some veterans, like Wendy Horal (Administrative Management) are now comfortable with the contrasting responses they face during their evening shifts two days a week. Responses range from grads who put the phone down immediately to grads who greet them with open arms, she says.

Administrative Management students have played quite a key role in the campaign. As well as several callers, two of the program's grads are involved - Melanie Mahlman is an '84 grad and Mary Ann van Graven, hired by Phone Mail to process the data, also graduated from the program that year.



BCIT grads still very competitive in the labour market, says CEC Manager

Despite the downturn which continues to plague the economies of both British Columbia and the rest of Canada, the prospects for employment for graduates of BCIT look promising, says Alison Meunier, new manager of the Canada Employment Centre on campus. Meunier says that BCIT graduates are very competitive in the labour market, and, as last year's placement figures show, "are doing very well." However, she cautions, the short-term outlook is not rosy, and students in their graduating year should start seriously looking for employment now.

Activity in 1984 at the campus Canada Employment Centre was up in all areas from 1983, says Meunier. Most notably, regular placements went from 533 to 613, for a jump of 15 per cent. Part-time and casual placements increased from 378 to 388, an increase of 3 per cent. In addition, she says, the number of recruiter days on campus showed an increase of 29 per cent with placements continuing well into the fall.

In the School of Engineering Technology, 326 of a total of 699 graduates, or 55 per cent found employment in a related field. Another 143 found work in non-related fields. In the School of Management, 343 of a total of 648 graduating students, or 61.5% found work in related fields, with 126 employed in non-related fields. Unfortunately, there was insufficient data to make the same calculations for the School of Health Sciences. Within the individual Schools, significant increases in career placement occurred for graduates of Financial Management, Hospitality and Tourism, Building Engineering, and Chemical Sciences.

Meunier is cautious about next year's labour market outlook.

"Economists have been fairly consistently predicting, 'slower growth, no recession' as an outlook for 1985," she says. "Unemployment is also predicted to remain close to the 11 per cent level. Nationally, job prospects seem to be centered in central Canada. There is no doubt that it is advisable for the job seeker to be mobile." Meunier believes that slow growth will not have much of an effect on the demand for graduates in marketing and electronic engineering.

Meunier says the Canada Employment Centre is always happy to help students in their job search, whatever their course of study.

"There are now five of us here, and we offer a variety of different services to the students," she says. These services include an on-campus recruiting program; a job placement service, which graduates can use for up to two years from the date of their

graduation; labour market opportunities information; a library of employer files; assistance in writing resumes; and help in job search techniques.

Meunier says that the tight job market makes it imperative that students, particularly those in their graduation year, should get started on their job search now. She says that finding the job you want is not always easy, but that the chances of success are improved by going about your search carefully and methodically.

"Newspapers advertise only 20 per cent of employment opportunities, so you should be prepared to do a little digging yourself, she says. "That includes talking to your instructors and former employees, going over company lists, sending out resumes, reading the trade journals, making phone calls, and following up. There are jobs out there, but the way to find the one you want is to go looking for it, and not wait for it to come to you."

Kettner's life changes course

A surprise phone call received by Herb Kettner of Lumber and Plywood has drastically changed the course of his life for the next two years. The call, from Dan Chapotelle of the Council of Forest Industries' (COFI) lumber sector, resulted in an offer he just couldn't refuse - to work for COFI in London, England as a timber specialist, a job which will take him all over Europe and the British Isles promoting B.C. lumber.

"I will also be attempting to develop new markets and investigating any complaints about Canadian lumber, Kettner explained during a recent break from his suddenly hectic schedule. He officially left BCIT on two year secondment leave January 18 but will be on and off campus until he leaves the country some time in March. Before that he must find tenants for his North Vancouver home, oversee an art sale of his own paintings and take care of the one hundred and one details involved in such a major move. Over 100 of his paintings will be on display at the Sheraton Villa Inn ballroom on February 7 between 7:30 p.m. and 9:30 p.m.

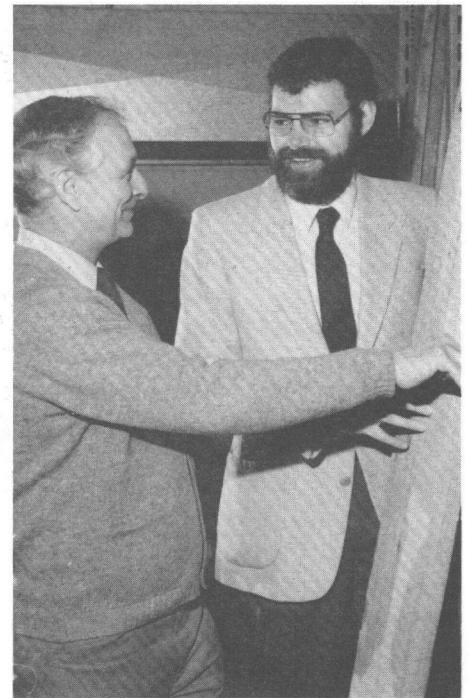
Taking over from Herb in Lumber and Plywood, is Eric Worthy, a 1974 BCIT grad from the program.

Kettner and his wife, who have never visited England, hope to find a home close

to Heathrow Airport once they have arrived. Meanwhile they are reading as much as they can about the country.

Kettner, who has been with the Institute 12 years, credits his employment as the reason for being offered the COFI job.

I couldn't have got the job if it wasn't for the fact that I am employed by BCIT, he says. "The school gave me the opportunity."



Getting ready for an overseas posting is Herb Kettner, left. Pictured with him is Eric Worthy, a graduate of the Lumber and Plywood program, who will take over Herb's position for two years.

N.D.P. Leader on Campus today

Bob Skelly, leader of the N.D.P. in the B.C. Legislature, will be on campus today, January 25, at the invitation of Gordon Thom. After lunch and a viewing of the 'BCIT AND YOU' videotape Skelly will be taken on a tour of the campus until about 3:30 p.m.

Board member made Q.C.

E.H. Alan Emery, a BCIT Board of Governors member since July, 1980, was one of 30 B.C. lawyers who received the honorary designation Queen's Counsel (Q.C.) on January 1, this year.

Emery, who is a partner in the firm of Jones, Emery and MacDonald, Barristers and Solicitors will bear the Q.C. designation for his lifetime.



Graduating students from the Psychiatric and General Nursing programs turn their heads as the academic procession makes its way down the Centennial Theatre aisle during Convocation on Friday, January 11. At bottom, dean of the School of Health Sciences, Brian Gillespie is followed by Margaret Neylan, department head of General and Psychiatric Nursing. 40 Psychiatric and 29 General Nursing students received diplomas at the ceremony.



Increased enrollment will benefit students and taxpayers, says dean

BCIT's School of Management has come up with a creative solution to budgetary pressures caused by cutbacks in funding from the provincial government. While most first year students began their second semester studies when classes resumed on January 4, some 80 students started their first term instead.

The contingent was made up of about 50 students in Financial Management and another 30 in Computer Systems. John Kyle, dean of the School Management, says the enrollment of the first term students will increase the School's productivity, and that it will be only a matter of time before all BCIT operates year-round.

Kyle says the extra intake was made in order to alleviate a backlog of students in the two technologies. The move will benefit not only those School of Management students who were able to enroll in January, and not have to wait until next September, but the taxpayers of British Columbia as well.

"Taxpayers will benefit because of the increased utilization of BCIT facilities," says Kyle. "That is particularly important in B.C. right now, because of the severe lack of funds available for education."

Hans Holst, acting head of Computer Systems, says that the addition of the third semester was inspired in part by the success of the HITRAC program in the School of

Engineering Technology. He adds that enrollment of the 80 first year students shows the concept of a third semester is a popular one.

"We first started talking about enrolling first-year students in January late last fall," he says, "We didn't actually make the decision to go ahead until the end of November. Considering there was not very much time to attract and screen applicants, I thought we did very well to enroll 80."

"The students who enrolled in January will be able to continue their second semester studies, the ones they would normally do during the January semester, during the summer, when BCIT is usually closed," says Holst. "Then they will be able to link up with the rest of the second year students in September, 1985." Holst says that first-term students who enrolled in January will be able to get their diplomas in 17 months, instead of the usual 21 months.

Holst adds that, in the future, an extra semester would mean that students will be able to complete their courses as quickly or as slowly as they please. "For example, they would be able, if they wished, to study for one or two semesters, return to the labour force, and then come back to BCIT and resume their studies."

While the idea of a third semester is new at BCIT, there are many successful precedents for the system at other educational

institutions. "Simon Fraser University is on a trimester system, and many universities in the United States have used it for years," says John Kyle.

Both Kyle and Holst believe the program will be a success. "There is really nothing special about what we are doing, except that students will be going to school for 17 months straight, instead of taking a break during the summer," says Holst. "That might be too long for some, but the students in the January intake are all goal-directed adults who know what they want. I have no doubt that all of them will successfully complete their courses."

The following letter has been received by Medical Services from the Salvation Army thanking BCIT for the food and toys sent to them for distribution at Christmas:

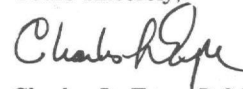
Dear Friends:

We are indeed very grateful to you and those involved in your contribution to The Salvation Army's Christmas appeal to help the many poor and needy.

Your gifts of canned goods, toys and Ginger Bread House and also a jar of pennies has been appreciative of this sharing and we do trust that you may have enjoyed a happier and rewarding season.

May God Bless You All and grant that 1985 may bring rewarding results to your efforts.

Yours sincerely,



Charles L. Eyre, R.S.W.
Captain
Family Services Officer

A footnote from Medical Services - "The Ginger Bread House was contributed by the Food Training Centre and the jar of pennies by a staff member. If we all saved our pennies in a jar, how much more we would be able to help next Christmas!"



The Staff Social Club presents:

50s Rock & Roll Dance

February 22, 1985

8:30 p.m. to sun up

at Eagles Hall, 1791 Douglas, Burnaby

Plus a special guest appearance by the

EARTH ANGELS

Bring Your Own Bottle / Glasses and ice provided

Admission \$7.50

Tickets from Staff Social Club committee members

Dress: 50s costumes (penalty for **no** costume!)

*So break out your saddle shoes, drapes, bobby socks
and Brill Cream and lets "ROCK!"*

Right: For those of you wondering what happened to the bronze plaque unveiled by Jack Heinrich at the Institute's rededication ceremony last October, here it is by the door at the top of the stairs leading to the president's office. Pictured with the plaque are Darcey Hebert (Board Office), Ellie Kroeker (President's Office) and Lynn Lounsbury, Duncan Macpherson's secretary.

HAPPY BIRTHDAY CAMPUS CAFE!



The Campus Cafe celebrated one year of service to the campus community last Friday with a birthday party featuring free coffee and cake. Most of the 300 guests were students, but among staff noticed in the crowd were Physical Plant employees Alfred Heiman, Irene Sombatty and Helen Cartmill (left) and Ruth Byers, C.E. Health, (right). Manager of the Cafe, Tina Taylor, is pictured at top with Campus Food Services Manager, Tony Spotzl.

Residence Advisors Required

PERSONS INTERESTED IN OBTAINING A POSITION AS RESIDENCE ADVISOR IN THE MAQUINNA STUDENT RESIDENCE FOR 1985/86 SHOULD APPLY BEFORE MARCH 1, 1985 TO THE BCIT HOUSING OFFICE, LOCATED IN THE MAQUINNA RESIDENCE.

BCIT FULL-TIME STUDENTS, STAFF, FACULTY AND ALUMNI ARE ELIGIBLE FOR THE POSITIONS. APPLICANTS MAY BE MARRIED OR SINGLE BUT DUE TO LACK OF FACILITIES APPLICANTS WITH CHILDREN CANNOT BE CONSIDERED.

Do you own a Saab Sonett? If so I would be very interested in talking to you about your car.
Jim Horner (BCIT Student) 526-0578

Attention BCIT staff. Can you spare 30 minutes out of your busy day to donate desperately needed blood? A blood donor clinic will be in operation at BCIT next week and Medical Services would like to encourage staff members to attend.

**TUESDAY AND WEDNESDAY
JANUARY 29 & 30
RACQUETBALL LOUNGE, SAC BUILDING
10:30 A.M. TO 3:00 P.M.**

Giving blood is like giving life to someone. For you, it's just 30 minutes out of your day. For the person who receives your blood, it's a small miracle.

Your donation may be used for major surgery, transplants, hemophilia, anemia, leukemia, infectious diseases, extensive burns.

The actual giving of your blood takes only 5 to 10 minutes. You can then take time for rest and refreshments and still be out of the clinic within 30 minutes.

Blood cannot be manufactured. To supply the over one million units needed for transfusion therapy each year, donations from people like you and your friends are desperately needed.

Donors between 17 and 65 years, must be good health AND MUST HAVE A SUBSTANTIAL MEAL BEFORE DONATING (breakfast or lunch - not coffee and donut). Maximum of four donations yearly (every three months).

A Message from Medical Services