## Computing chairman quits in frustration

 Mess leads to resignationby Jim McElgunn
The chairman of computing science has resigned in frustration "complacency" of university administrators in the face of exploding computing science course enrolments.

John Tartar says he resigned effective June 30 because his arguments that computing science desperately needs more academic provements.

Registrations in computing science (including large numbers of non-computing science
students) have jumped from 1,770 in 1973-74 to 3,888 in 1980-81, in 1973-74 to 3,888 in 1980-81, and are pro

But the number of full-time equivalent academic staff has only increased from 15.5 to 17.0 this year.

Research data gleaned from the $U$ of A's official data book by computing science grad students shows that average lecture section size has grown from 28.1 in $1973-$ 74 to 54.8 in $1980-81$. It is
expected to leap to 66.9 by this fall.

Demand for computing science graduates is at an all-time high: 12 jobs await every B.Sc. and 3) each M.Sc. and Ph.D., and demand is rising at about 30 percent annually. The American telephone giant, Bell Labs, says it alone needs as many computing science Ph.D.s as the United States produces yearly.

Dean of Science K.B. Newbound says the problem for expanding science is that it is funding cutbacks.
"The only real remedy would be more funding from the government," he says. "But the governmont in its infinite wisdom doesn't see fit to provide the resources."

Both Newbound and compouting science chairman Tartar pouting science chairman Tartar rapidly-expanding disciplines was easier in the 1960 s and early 1970 s. Provincial funding cut backs have now made a gain for one department a loss for another

The science faculty as a whole is not allowed to add to its total number of academics, because of a hiring freeze introduced in 1977. hiring
78.

Newbound's flexibility is clearly limited by the tenure system, which, for reasons of academic freedom and job security, makes it almost impossible to fire a tenured academic. And 98 percent of the science faculty have tenure, he says.

So he is relying on attrition to try to shift more academics into computing science. But he admits this is woefully inadequate to solve the problem.

## Non-computing students may lose

Exploding enrolments and a severe shortage of professors in computing science could have painful consequences for students outside the department.

Already, many computing courses have more than 100 students, and most have been forced to shift out of the General Services Building in search of larger classrooms.

And as the popularity of computing courses continues to leap ahead at 18 percent per year, students are being forced to wait as late as 4 atm to get computer time.

Already the department has been forced to slap enrolment limitations on some courses.

But the real crunch is yet to come.

Computing Science chairman John Tartar says a study by computing science departments across North America predicts that within the next five years, th not unreasonable to expect will half the university students desire a course in computing.
Although Tartar believes anybody coming to university should be aware of computing," the prospect of up to 10,000 students taking computing courses unnerves him.
"Were straining at the seams now," he says. There isn't a hope of coping with 10,000 computing science registrants.

Even given support for hiring more academics from the dean and other administrators, Tartar admits the department will probably be forced by funding
constraints to make some hard choices. He says with adequate funds his department could probably attract two new academics every three years, but this would still not reverse the problem.

How enrolment might be limited is open to speculation, though Tartar thinks formal quotas are unlikely. He is very concerned about how fair enrolment limitations might be.
"How do we choose who gets in from other faculties?" asks Tartar. "We're being told in dollar terms to teach all the students we an and turn the rest away.... we have some extremely hard decisions to make as to if we have to cut "programs to maintain others.'

Science Dean K.B. Newbound speculates some computing courses may be shifted into other faculties where demand warrants.

How will the shortage of computing graduates and of neope to train them affect growth

Tartar says the com
Tartar says the computing industry has already shown that if universities wont do the job, setting up its own accredited setting up treated already inserting or these are already operating or planned in

Meanwhile b
, back in the $U$ of A computing science department, government cutbacks force larger quality of education

Says Tartar: "W
Se re not at the breakdown point... but the patient
graduate students and chairman choice, and we should not ignore be transferred suddenly from the students decisions, not comother departments into com- One solution may be to impose pouting science. majors or on students that tenured professors are not from other faculties and where the most popular courses are: "What are you supposed to o? Fire everybody? That's blowing with the winds, and institutions of high learning are not supposed to do that.

But "students have made a


Hear me!
Upper class twits unite: you have nothing to lose but your brandy and gars! See review in Tuesday's Gateway.

## Cabinet to blame for funding delay <br> The university wont find out

 until about April 15 what its $\qquad$ "We have to make some kind, until about April for the 1981-82government grant for the government grant for the 1981-82
fiscal year will be, although that fiscal year will be, although that
fiscal year begins April 1 . fiscal year begins April 1.
Vice-president finance Lorne Leitch is not happy with this Leith is not happy with this situation; neither is Advanced person t Horsman said he is not Education Minister Jim Horsman. policy The 1981-82 provincial policy; the provincial cabinet budget wont go before the budget wont go before the
legislature before the second week legislature before the second week by I realize the difficulty faced of April, and Horsman cannot by the university, he said. I'm release proposed budget figures Historically, the Lougheed until they are tabled in the administration has been reluctant legislature.

Leitch pointed out yesterday that Alberta school boards corday earlier than it has to, since estimates of their estimates of their grants well in sensitive issue.
advance of Laving in the Last year, the amount of the legislature. However, govern- grant was not released until inst ment policy dictates that univer- before classes ended at the universities be kept in the dark. This leaves the university in
bind. a bind. sties. In 1978-79, no information was available until after classes ended.
departments taking computing courses. Engineering, commerce and science students would be quot (seriously affected by such a quota (see story below
an obligation strongly we have an obligation to students and continued on page 13


It may be maddening to line up for terminals now; in the future they may not even be able to get a place

