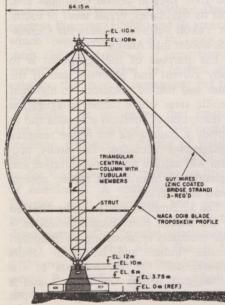
## NRC explores energy sources

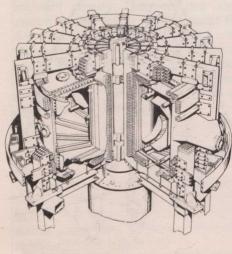
The federal government has announced funding for two research projects that will explore alternative energy sources.

The National Research Council of Canada (NRC) and Hydro-Quebec will cooperate to build a large wind turbine and a fusion device over the next five years. The government has allocated about \$36 million for both projects which will be constructed in Quebec.



AEOLUS: SWEPT AREA 4000 m²; 2 BLADES, 2.4 m CHORD; ROTOR HEIGHT 96 m; ROTOR DIAMETER 64 m; GENERATOR RATING 3.8 MW; RATED WINE SPEED 14.3 m/s; EXPECTED ENERGY OUTPUT 6.1 GWh/YEAR

The NRC and Hydro-Quebec will build one of the world's largest and most powerful wind turbines. At 110 metres in height, the Aeolus, as it is called, will be capable of generating up to 3.8 megawatts of electricity, enough energy to supply the nonheating electrical requirements of 600 to 700 homes.



It is expected that the cost per kilowatt-hour of electricity generated by "farms" of large scale wind turbines similar to the Aeolus will be competitive with that of electricity obtained from conventional oil-fired generators.

The \$20-million turbine is expected to be completed by 1983. The NRC and Science Council of Canada forecast a \$1-billion market for this type of wind turbine in Canada by the year 2000, in addition to a substantial export market overseas.

The government has also approved \$18.7 million for the construction of an experimental fusion reactor called Tokamak. The reactor, to be built within three years, will only be three metres in diameter. It will not generate any energy but rather provide a research tool for experts from Hydro-Quebec and other Canadian researchers.

## Student loans act changed

Secretary of State Francis Fox recently tabled a bill in Parliament to amend the Canada Student Loans Act.

The Act, which came into effect in 1954, provides for financial assistance in the form of guaranteed loans and, subsidized interest on those loans, to fulltime post-secondary students who otherwise might not be able to continue their education.

The main purpose of the bill is to update the Act in order to take into account certain changes in educational patterns, including increasing enrolments in technical, community and vocational institutions which provide shorter and more intensive training than traditional university courses. In addition some technical and administrative changes are included.

The major changes proposed in the bill are:

Course eligibility: the length of a course required to qualify as eligible is changed from 26 weeks to 12 weeks. This change recognizes the need to address the question of financial assistance for eligible students now seeking post-secondary education in institutions other than universities: and

- Loan limits: the annual loan limit of \$1,800 (\$900 for those in semesters forming a part of a longer course) is now expressed as a weekly limit of \$56.25. This change will relate the loan maximum available to a student to the length of the course in which he or she is enrolled. The new weekly limit will not, however, apply to students enrolled in a semester of 13 to 15 weeks which is part of a longer course of studies, or in periods of study of 26 to 31 weeks in length, who will continue to be eligible for maximum loans of \$900 and \$1,800 respectively The over-all maximum a student may borrow in a lifetime remains at \$9,800.

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## Sports projects for IYDP

The federal government has announced several sports projects as part of its participation in the 1981 International Yeal of Disabled Persons (IYDP). Funds for the projects totalling \$300,000 will be provided by Fitness and Amateur Spot Canada.

The programs cover the fields of 18 creation, research, sport and publications specially designed to suit the needs and aspirations of the physically disabled.

Fitness Canada and the National Film Board will produce a series of film strip on the coaching of disabled athlete during the next three years.

The Canadian Parks and Recreation Association, with Fitness Canada assist ance, will begin a study of existing play ground equipment and the need to adap it for use by disabled children. A team of architects and designers will research existing equipment and play structures then design, test and develop new adapted facilities.

The knowledge and designs generated are expected to benefit recreation depart ments and youth agencies across the country, assisting them in the establish ment of playgrounds that will allow 101 equal participation of disabled youngsters

Fitness Canada also will contribut \$27,500 towards a special edition of Recreation Canada, a publication of the Canadian Parks and Recreation Associa tion which is distributed to all recreation sports and recreational institutions and government agencies. The needs, problem imm and concerns of disabled persons in phy university sical recreation, fitness and sport will be respectively featured.

Funds totalling some \$75,000 will also be allocated to projects entered in the jointly by Fitness and Amateur Spot The Canada and the provinces, and to pro move jects recommended by the Canadian grant varial review committee of the International creas Year of Disabled Persons.