

film showing, commented on Miss Alonso's participation in the production as illustrative of "the way Cubans have taken the people to the arts and the arts to the people". The renowned ballerina is shown visiting factories "encouraging workers to suggest ideas for new ballets".

*Arts Cuba* was a labour of love for many of the unpaid crew who worked with Ms. Leebosh and Mr. Jutra. Prior to its showing on the CBC, it will have been seen in Toronto during the week of films at "The Festival of Festivals".

### Ontario pipeline extensions

Interprovincial Pipe Line Limited and Trans-Northern Pipe Line Company have been authorized by the National Energy Board to extend their oil pipeline facilities in southern Ontario. The two extensions will connect a new refinery built by Texaco Canada Limited in Nanticoke to existing pipeline facilities. One pipeline link will be used to supply crude oil to the refinery, the other to distribute its products to market.

The Interprovincial 26-mile link to transport crude oil will extend from Mount Hope to the Nanticoke refinery. The Trans-Northern 36.5-mile extension will connect the Nanticoke refinery to Trans-Northern facilities at Hamilton, Ontario.

### Second Canadian professor at Yale

The second Visiting Professor of Canadian Studies at Yale University will be Dr. Walter R. Henson. His appointment to the Yale School of Forestry and Environmental Studies for 1977-78 has been made possible through a grant by the Government of Canada, under a program initiated to commemorate the American Revolution Bicentennial in 1976, and in recognition of Yale's contributions to Canadian studies.

Dr. Henson, Senior Co-ordinator, Research and Scientific Services, for the Ministry of Natural Resources of the province of Ontario, will teach a course in foreign insect problems and strategies, and conduct a seminar on issues in Canadian science. He will also host a series of lectures given by Canadians on integrating long-term approaches in different disciplines to natural resource problems.

### Mathematics can be fun

Over 25 teachers in eastern Nova Scotia have attended a provocative education course offered at St. Francis Xavier University this summer, entitled "A Directed Activity Approach to Learning the Basic Skills for Primary and Intermediate Grades".

The mathematics program makes use of the laboratory approach in which, through exploration, experimentation and discussion, students acquire a broader knowledge of their subject, as well as improved ways of teaching it. The course is based on the assumption that children can understand mathematical concepts if the various symbols and formulae are related to their own activities and experiences and to things that are real and concrete. Children should be encouraged to discover the basic rules of logic and mathematics through the guided manipulation of concrete materials. They can then move from this understanding to the more abstract ideas.

For example, with simple materials such as coloured pegs or blocks, the child

can be led to create various geometric shapes and, in doing so, can gain an understanding of what these shapes are and how they relate to one another. Instead of being told the formula for the area of a rectangle or triangle, the child can build these shapes and discover this for himself. The logic and structure in mathematics become real and concrete. Children are also encouraged to develop the proper language and terminology related to mathematics and through this to develop more precise thinking. They are "using" language and "doing" mathematics rather than just learning them.

This approach does not advocate the use of "gimmicks" alone or the total elimination of learning by rote. During the summer session, a great deal of time was spent discussing the philosophy underlying such methods so that teachers would be able to concentrate on activities and experiences out of which the right concepts could emerge. Facilities were provided for making and using learning aids that had been designed to promote a clearer understanding of the fundamental principles embodied in the texts used in the schools in Nova Scotia.



"Make up your minds, you guys!" Magic, a 40-pound lion, expresses disgust for the kidnappers who snatched him from his owner's car in downtown Ottawa, and later abandoned him. Humane Society worker Waldemar Hansel consoles the confused kitty.