

## Lebanese situation condemned

In an official statement issued by the Secretary of State for External Affairs Allan J. MacEachen, the Canadian government has condemned the situation in Lebanon.

"The brutal killings of men, women and children in West Beirut leave the government and people of Canada with a sense of shock and outrage....

"We condemn these crimes first and foremost because of the human lives lost, but also because such acts will not lead to peace and stability in Lebanon. On the contrary, they only fuel bitterness and increase the risk of further bloodshed.

"The events of the past few hours have shown why restraint on all sides is imperative in the highly charged atmosphere following President-elect Gemayel's death....

"With this danger in mind, we deplore Israel's unjustified occupation of West Beirut. Upsetting the carefully worked-out ceasefire agreements could only have a destabilizing effect on an already tense situation. In light of the most recent tragic events, Israel should withdraw from West Beirut so that the task of restoring stability might begin under Lebanese government authority.

"Although Canada is not a member of the United Nations Security Council, we endorse the council's resolution which condemns the massacres and authorizes a number of important actions by the Secretary General."

## Renovated Peace Tower reopens

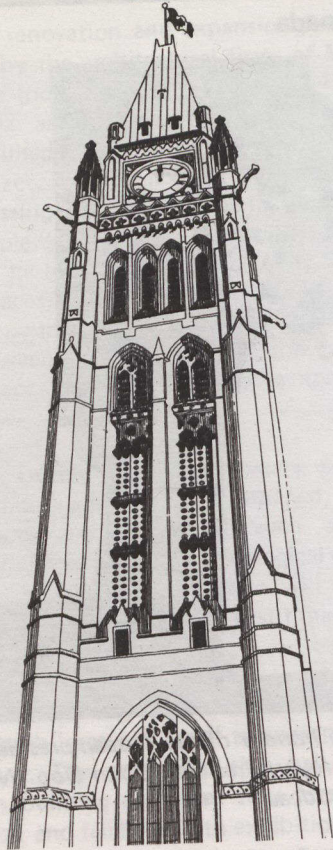
After a two-year \$4.6-million renovation program, the 55-year-old Peace Tower in the Parliament Buildings in Ottawa has been reopened to the public.

The changes to the tower and carillon, which took account of fire safety regulations and the needs of physically handicapped persons, were directed by the project manager for Public Works Canada, Stig Harvor.

"The restoration of the tower was a very time consuming process," said Mr. Harvor. "It required much hand work. Only half a dozen men at a time could work in the constricted space. All the old stone was reused."

### Elevator moves at an incline

One of the renovations to the tower is a unique new elevator designed and built



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by the Otis Elevator Company Limited, which travels up an incline of ten degrees and then moves vertically to the top. Previously the trip was made on two elevators with a transfer point. In addition, the new elevator can take 355 people up in an hour rather than 200 using the old system. For the first time, also, physically handicapped persons are able to go to the observation area.

The glass-enclosed observation deck from where visitors are able to see the grand sweep of Ottawa is immediately below the tower clock, whose four bronze dials were copied from Big Ben in London, England. Glass panels have been cut into the old stone walls at floor level so children and people in wheelchairs can comfortably see out and people with cameras can kneel for unusual photos of the four granite gargoyles jutting out below.

Each of the bells of the carillon was removed from its mounting and cleaned. The largest bell clappers were cleaned and painted while the lightest, 17 in all, were given new clappers.

The largest bell, called the Bourdon, weighs 10 tonnes and is inscribed with a dedication: "To keep in remembrance the service and sacrifice of Canada in the Great War." The smallest bell weighs only 5.4 kilograms. The belfry was fitted with moving shutters to prevent snow, sleet,

rain or anything else from affecting the bells in their steel frames.

The room from where Gordon Slater, Dominion Carillonneur since 1977, plays the keyboard has also been refurbished. The giant playing console, including its frame, keys and pedals, were installed when the Peace Tower opened on July 1, 1927.

## Innovations for inventors

The University of Montreal has a special centre that helps inventors with patenting, setting up their own production or licensing their creations for production.

The centre for industrial innovations operated by the Ecole Polytechnique also evaluates inventions.

"Centres like ours are needed because we just don't turn out as many inventions as we used to in the West," said commercial counsellor for the centre Jacques Bernier. "The emphasis seems to have shifted from developing new products to developing new markets."

One product which the centre has helped produce is the first Canadian software program offered by a computer multinational, Sperry Univac, a division of Sperry Corporation of New York. One of the purchasers of the computer program, devised by Montrealers Pierre Godbout and Aurele Cardinal, was the Montreal suburb of Ville d'Anjou. The program enabled the city to cut the cost of its flood-prevention construction by 57 per cent.

### Money-saver

Another invention aided by the centre was a probe that registers the amount of sodium in an 85-tonne batch of molten aluminum. It was devised by Arthur Pelton and Alan Dubreuil at the University of Montreal. The probe measures instantly, thereby eliminating time and money spent keeping aluminum molten while it is being analyzed.

The centre is currently marketing a mechanism that contains a minute but powerful spring to replace knee ligaments. The invention could prolong the careers of athletes with knee problems.

In addition, the centre is marketing the Axograph, a circular drafting table on which two-dimensional engineering drawings can be quickly transformed into three-dimensional drawings. The instrument, which provides a much clearer picture of a finished product, was designed by Marc Sauvageau.