



Pickering College offers International Baccalaureate program

Governor General Edward Schreyer recently visited Ontario's Pickering College, a private high school for boys from Grades 7 to 13, to lay the cornerstone of a new residence. During the ceremony, Pickering's Board of Governors announced that the school had received official authorization to offer the International Baccalaureate, a program leading to the prestigious International Baccalaureate diploma. The program, which is recognized throughout the world, is designed to give graduating students advanced standing at college or university. It already involves some 200 schools in 43 countries, including 22 in Canada. Here, Mr. Schreyer (right) greets retired diplomat and Pickering old boy, John Holmes (left), while Board chairman Allan Rogers looks on.

Water power

The Turbodyne, a new watermill capable of turning a generator at high speed in water moving at relatively low speed, is being tested in the St. Lawrence River near Cornwall, Ontario.

If the experimental model passes its tests this winter, larger versions will be built which are expected to be able to provide for the electrical needs of several hundred homes or to pump water to reservoirs that could then turn high-efficiency turbines to power thousands of homes.

The Turbodyne was designed by Canadian engineer Barry Davis, founder of Nova Energy Limited in Dartmouth, Nova Scotia which hopes to produce a commercial version by next year. Funds for the preliminary studies and the test model were provided by the National Research Council in Ottawa.

Resembles a boat

The experimental Turbodyne generator looks like a pontoon boat with a large box hanging into the water below it. The box, about 3 metres long and 2 metres high and open at the front and rear, acts as a duct to channel water toward the blades inside. The three 1.5 metre-long flat blades that act as scoops, are linked to a central axle that turns a turbine whose electrical output is transmitted along a cable to the shore. The entire device floats on pontoons and is

anchored to a massive block of stone on the river bottom.

The prototype took five years of planning and building before two tugs pulled it into position in the St. Lawrence River. It survived its first test during a rain storm but winter is expected to provide a greater challenge for the turbine.

Although the St. Lawrence moves too quickly to freeze over, slushy ice in the water could stick to the watermill and slow the blades. Large versions of the machine may require screens to keep blocks of floating ice and other debris from shattering blades.

Other versions of the Turbodyne are expected to be tested in British Columbia and in the tides of Nova Scotia or New Brunswick.

Gretzky sportsman of the year

Wayne Gretzky, the Edmonton Oiler hockey sensation, has been named sportsman of the year by the United States' *Sports Illustrated* magazine.

Gretzky, who practically rewrote the National Hockey League record book last year when he accumulated 212 points and scored 92 goals, said the award was probably the biggest of the many he had ever won.

Gretzky, about to celebrate his twenty-second birthday, won the Lou Marsh award for outstanding athletic accomplishment in 1982 and was recently

named Canada's male athlete of the year by *The Canadian Press* for an unprecedented third consecutive year. He has also been named athlete of the year by American Broadcasting Corporation's *Wide World of Sports* and the *Chicago Tribune*.

Wayne Gretzky is the first player on a Canadian team, the second Canadian citizen and the third hockey selection in the 29-year history of the *Sports Illustrated* award.



Wayne Gretzky of the Edmonton Oilers.

CANAPRESS Photo Service