

Canadian aircraft wins competition

The *Aurora*, the new Canadian Forces long-range-patrol aircraft, won the Fin-castle anti-submarine warfare (ASW) competition held recently near Adelaide, Australia.

The competition held annually, examines the full range of ASW skills of an aircraft, which this year consisted of a one day and a one night mission. Competing aircrews demonstrated their ASW capabilities to detect, track and attack an evasive submarine and points were awarded on the basis of attack accuracy, as well as over-all efficiency and speed of localization.

The *Aurora*, manned by a 4-5 Squadron crew from Canadian Forces Base Greenwood, Nova Scotia, won over the best ASW aircraft and crews from Australia, New Zealand and Britain.

The Canadian Forces win was attributed to a combination of the extraordinary capabilities of the new *Aurora* and the professionalism of the Greenwood crew.

The *Aurora*, successor to the *Argus*, is reputedly the finest aircraft of its kind in the world today. In the short time it has been used by the Canadian Forces, it has given Maritime patrol aircrews more time in contact with submarines than that accumulated in the 24-year patrol lifetime of the *Argus*.

Boat launcher could be potential life-saver

One day after 84 men perished earlier this year in the North Atlantic, marine engineer Arden Burns began searching for a way to save future victims, and he thinks has found it, reports the *Canadian Press*.

During five years at sea, Burns said he often thought of the difficulty of launching life boats in rough seas.

He continued to ponder the problem after retiring from sailing 11 years ago, but did not begin serious work on it until the day after the oil rig *Ocean Ranger* sank off Newfoundland on February 15, claiming 84 lives.

The answer, he said, is a float-off mechanism designed to ideally position survival craft regardless of the direction of the ship or degree of list, a concept he calls Arden's Principle.

The engineering concepts involved are complicated but, essentially, his device involves putting lifeboats in a cradle

which swings around on a track, as the ship lists, to place the lifeboats on the surface of the sea at a flat angle.

It then permits the entire cradle and lifeboat to float away safely.

Lowering devices antiquated

Burns said that lifeboats available to the merchant marine and offshore resource industry are designed to withstand severe Atlantic storms, but the mechanisms used to lower the boats into the water are outdated.

He said his invention is operable not only on a sinking ship, but during times when fire breaks out or gas leaks threaten a crew.

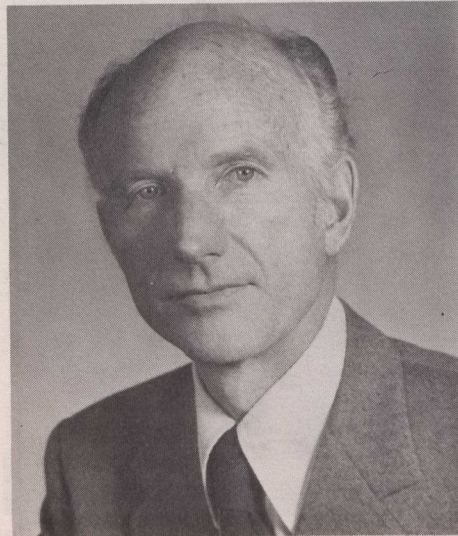
Burns, who lives in Nova Scotia, has applied for a patent and a representative of a British firm has expressed interest in his project. He has also approached government research agencies.

Royal Victorian Order appointee

Edmond Joly de Lotbinière, administrative secretary to the Governor General, has been appointed a member of the Royal Victorian Order in the Queen's Birthday Honours List recently released in London, England.

Decorations of the Order are "in the Queen's personal giving" and Mr. de Lotbinière's appointment was in recognition of his important personal services to the Sovereign over a long period of time.

Mr. de Lotbinière, who was appointed to his position in 1975, is responsible for the day-to-day liaison with Buckingham Palace on a broad range of subjects. He was also associated with Government House from 1959 to 1961 when he served



Edmond Joly de Lotbinière

as acting and later assistant secretary to Governor General Vincent Massey and Governor General Georges Vanier.

In 1961 he was posted to the Canadian High Commission in London where he served until 1966 as First Secretary and was appointed Extra Gentleman Usher to the Queen.

Born in Montreal in 1922, Mr. de Lotbinière was educated in Switzerland and in Canada.

Natural shampoo keeps hair and environment clean

A Canadian chemist has developed a natural shampoo which he claims is more environmentally safe than regular shampoos.

John Skelton, a federal government employee in Ottawa, said his Hollyberry Natural Shampoo has none of the hazardous ingredients found in many shampoos and will appeal to environmentally conscious consumers.

Skelton said large-scale manufacturers of liquid shampoos add small amounts of preservatives such as formaldehyde to their products. "This means that some 15 000 litres of formaldehyde are dumped into our rivers and lakes each year," he maintained. He added that the U.S. Consumer Product Safety Commission indicates even small amounts of the chemical can cause health problems.

Innovation cosmetics incorporated

Skelton's company, Innovation Cosmetics Incorporated, is selling the shampoos through health food stores and some drug stores. He will also soon be selling the product through home party groups.

The shampoo is manufactured to Skelton's specifications by Henkel Chemicals (Canada) Limited in Montreal and packaged in Ottawa.

"They introduced the shampoo in Germany where it has gained a large segment of the market," Skelton said, adding "They make it to my specifications in Montreal. I took their good quality product, made some changes in the formula and turned it into a first quality product."

Before using the shampoo, customers must first mix the concentrate with water, a minor inconvenience, he said, considering the environmentally safer product also requires less packaging. Packaging accounts for some 50 per cent of the cost of conventional shampoos compared to 25 per cent for Skelton's product.