

experience with the various institutions and companies they have worked with in the Philippines.

There are five volunteers in the country at present — one in Bacolod, another in Iligan, and three in the Manila area — advising on logging and sawmill operations, carbide and ferroalloy technology, auto-fleet maintenance, bottling, and wines and liquors.

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Ceso is a non-profit corporation organized by a group of Canadian business leaders with the support of the Canadian International Development Agency (CIDA) to assist developing countries achieve economic growth by helping to strengthen and improve the management and effectiveness of their own businesses, organizations and institutions. Through CESA retired Canadian executives are able to share, all over the world, the technical, professional and management skills acquired throughout their careers in Canadian business and industry. Volunteers serve for a maximum of six months in response to specific requests received from organizations in either the public or private sector.

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**Filipino-born artist** Rolando Lampitoc, originally from Laoag, opened his second one-man show of oil paintings in Toronto in September.

Although a popular artist in the Philippines, Lampitoc had to struggle for a while after he moved to Canada before his big break came last June when a Toronto promoter organized a travelling exhibit of Filipino-born artists living in North America. Maurice Amar of the Laurier Gallery saw and liked Lampitoc's paintings of the Philippines and arranged the artist's first one-man show in Toronto last year. Lampitoc is committed to another show in Toronto, where he lives, in November.

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The **Multiple Management Group (MMG)** of Vancouver, Canada, has produced the Ecology Machine to rid the world of rodents effectively and safely without the use of chemical pesticides, which scientists believe are no longer a viable option. The machine emits ultrasonic sound at several frequencies combined in constantly changing patterns producing an irritating "noise" to which the victims cannot become accustomed. It mesmerises rats, cockroaches and weevils and throws their entire biological rhythms off balance until they ultimately die. A report from a food processing company testing the machine in Bangkok claims that it controls snakes, too. However, the noise is not audible to humans or domestic animals.

The Ecology Machine is made of sturdy 16 gauge aluminum, measures

35 cm x 8 cm, and weighs a mere 2.7 kgs. Installation is simple: just hang it up and plug it in; it consumes power comparable to a 100 watt light bulb. It can effectively cover from 2,708 square metres to 4,514 square metres indoors and with a conducive structure some warehouses could get even better coverage.

Two prominent research agencies are reported to be interested in testing the machines — the Technology Resources Center in the Philippines and the International Rice Research Institute. From a variety of reports and test sites in Manila, the initial testing revealed immediate control of cockroaches, rats no longer sighted, droppings reduced by at least 70 per cent, and ricebugs inside sacks completely disappeared.

MMG has invested two and a half years and nearly \$250,000 developing the Ecology Machine. So far there are 10 distributors in Canada and one in each of 20 countries but there is a lot more world to rid of rodents open to the right kind of entrepreneurs or marketing-oriented companies.

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On September 22, the Philippines' Energy Minister Geronimo Velasco and the president of **Husky Oil of Canada**, Robert Strother, signed two geophysical survey contracts.

Under these contracts Husky is to head a consortium of Philippine and American companies to explore for oil in 596,000 hectares in Lingayen Gulf and 219,000 hectares in North Busuanga in the Palawan Basin.

It will be the first time that Husky has led a consortium in the Philippines although it is a partner in two existing ventures. The company has also requested the Ministry of Energy to grant service contracts that would involve the drilling of 11 wells in the two areas.

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The **Cadlao oilfield** in offshore Palawan started producing crude oil at a rate of 2,000 barrels a day on August 26 and is expected to build up to 4,560 barrels daily.

The oilfield, operated by consortiums led by Amoco Philippines Petroleum Company, which includes the Canadian company, Husky Philippines Oil, is the Philippines' second producing oilfield after Nido in offshore northwestern Palawan. Nido and Cadlao are about 50 kilometres apart.

The Amoco oil drillers saved construction time on the Cadlao field by using a "very early production system" that dispensed with an oil production platform similar to that used at the Nido oilfield. Instead, deep-sea divers installed two sub-sea wellheads. The consortium spent roughly \$72 million dollars to develop the two Cadlao wells.

## SINGAPORE

Singapore's former international Paya Lebar airport housed the **Asian Aerospace Exhibition 1981**, the first ever in the region, from September 23-27. A two-day conference was run in conjunction with the show at the Mandarin Hotel.

Among the 30 exhibitors, representing about 130 companies and national industry groups, the Canadian contingent of 15 was the largest from any country. Canadair of Montreal flew its Challenger executive twinjet to the show for its debut in the region. Most prominent among the other participants were the British, French, West German, and Dutch groups. Some of the participating companies from Canada have been in business since the birth of Canada's aviation industry, which has developed a high degree of sophistication and involvement in the very specialized aspects of the Apollo II and space shuttle programs.

The Canadian firms exhibiting were happy with the interest shown in their equipment and services and were impressed by the significant potential for joint-venture relationships and expanded sales.

The success of the Canadian participation is evident in the follow-up activities of six companies. Helicopter Welders, from Richmond, British Columbia, is negotiating a joint venture to produce helicopter components and supply maintenance in Singapore. Northern Airborne Technology, Prince George, B.C., has reached an agreement with Heli-Orient to distribute helicopter radio and electronic systems. Decade Industries, Richmond, B.C., strengthened its position as a maintenance tool support supplier to airlines in Singapore, the Philippines, and Thailand. Garret Manufacturing of Rexdale, Ontario, appointed Denson Enterprises as its ASEAN agent, which will conduct a demonstration campaign of search and rescue radios in 1982. Heroux Inc., Longueuil, Quebec, is negotiating a joint venture with a Singapore company to conduct landing gear maintenance in Singapore. Computing Devices from Ottawa held discussions with Unicorn International, a subsidiary of the Singapore government-owned Sheng Li group, on the possibility of making an artillery fire direction computer in Singapore.

Several of the Canadian firms took the opportunity to travel elsewhere in the ASEAN region to examine future market potential.

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As with transportation, communications have always been a preoccupation in the wide expanse that is Canada. As a result, Canadian technology for linking vast