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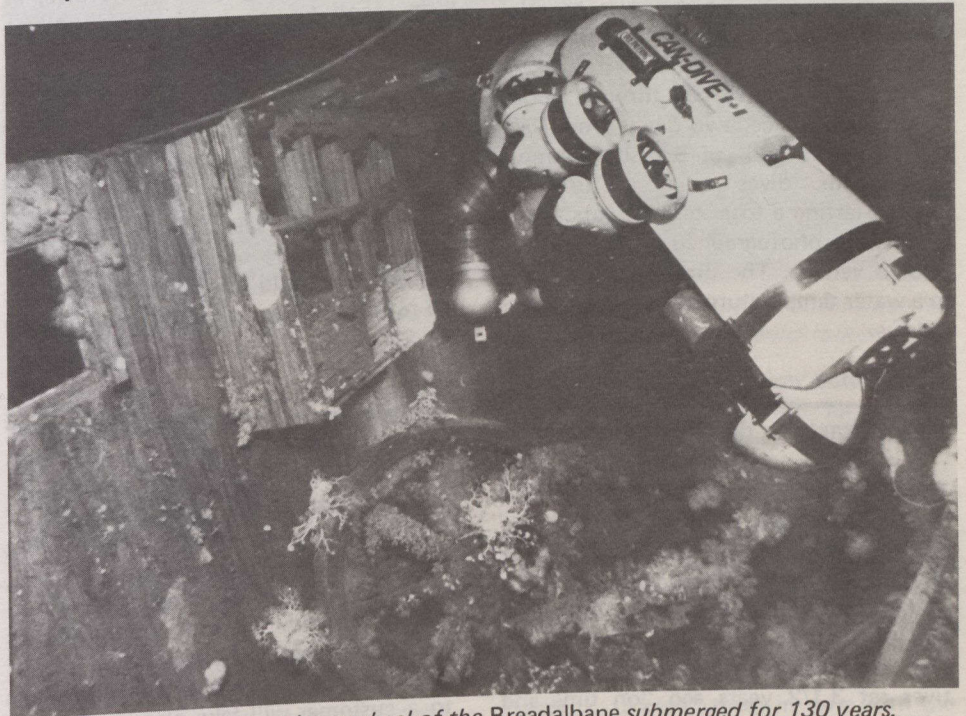
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130-year-old ice-bound shipwreck yields to modern technology



Diver in space-like suit retrieves wheel of the Breadalbane submerged for 130 years.

The northern-most shipwreck known has finally yielded some of its secrets three years after it was first located and 130 years after the vessel went down off the coast of Beechey Island about 95 kilometres from Resolute, Northwest Territories.

Recently, at the National Geographic Society in Washington, the almost perfectly preserved wheel from the three-masted sailing vessel was put on display. It was retrieved by two Canadian divers during the first week in May.

The ship and a companion vessel had originally been sent out in 1853 to locate the British explorer Sir John Franklin. In August of that year, ice ripped through the hull of the *Breadalbane* and the ship sank in about 15 minutes. Fortunately, the *Breadalbane's* crew of 21 all managed to escape across the ice to another ship.

Sonar sighting

In 1980, the ship's final resting place was sighted by sophisticated side-scan sonar

aboard the Canadian Coast Guard ice-breaker *John A. Macdonald*. The discovery capped a five-year search by Toronto physician-explorer-diver Joseph MacInnis. The ship, which sank in about 103 metres of water, was photographed in 1981 with remote-controlled television cameras. However, two later expeditions which sought to reach the ship with human divers were foiled by dangerous ice conditions.

In 1981, the ice was too weak to hold equipment, and in 1982 the exploration team found the site covered with small mountains of broken and shifting ice.

This year, Dr. MacInnis and a small team from the National Geographic, which has underwritten part of the cost of outfitting the expeditions, made an exploratory visit in March simply to examine ice conditions. They had not planned to make a dive until next year when more information about ice movement had been gathered. However, they discovered the ice over the ship was thick and



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unbroken — a rare, once-in-five-year phenomenon. "When the pilots said the ice was really good, it was a last-minute scramble to get the expedition organized," said Dr. MacInnis.

Aluminum dive suit

The expedition equipment included an aluminum-shelled Wasp diving suit with special grippers on its arms and a small remote piloted vehicle with television cameras aboard. While the logistic efforts were going on, the ship had to be relocated because a marker locating the wreck had torn loose and drifted away.

After holes were cut through about two metres of ice, two divers from Can-Dive Services Ltd. of British Columbia made four dives over a three-day period, lasting a total of six hours. Their dives were photographed by the remote piloted vehicle. The divers were working in a water temperature of minus 2 degrees Celsius.

Flying start for de Havilland Dash 8

Three years of engineering, design and construction have culminated in the successful maiden flight for Canada's newest airplane, the de Havilland *Dash 8*.

Almost as important as its successful maiden flight was the fact that the 36-seat commuter airliner reached objectives set 3 1/2 years ago "on time and within budget", said John Sandford, president of de Havilland Aircraft of Canada Ltd., Toronto.

So far the plane has cost de Havilland \$160 million, with another \$100 million in tooling and development costs yet to

When they reached the ship, Dr. MacInnis said, "it was a terribly emotional experience, to reach back through a century to feel the spirits of those guys who I think were the astronauts of their generation".

Samples of wood and metal from the ship will be sent to Parks Canada in Ottawa for analysis of the effects of very cold water on them. On first sight, the wood appears better preserved than the metal. Photographs of the dive, as well as 15 hours of videotapes, will be sent to various research centres. In addition to the views of the ship, videotape and photos showing marks on the ocean bottom made by icebergs may provide insights into the problems faced in laying undersea oil pipelines.

Dr. MacInnis said that the experience gained in diving and in organizing the expedition would also aid future efforts to retrieve downed aircraft or ships in the Arctic.

be spent. The company has 53 firm orders for the plane and options for 66 more. It is the largest backlog of advance orders for a new airplane that de Havilland has ever enjoyed.

The plane will be joined in a certification program by four more *Dash 8*s under construction that will fly a total of 1 600 hours. Delivery of the first plane to a customer will take place in September 1984.

The plane's registration number, C-GDNK, was chosen to honour the company's past chairman, Douglas N. Kendall, who rode with Mr. Sandford in the *Dash 7* chase plane.

Rail cars to Indonesia

Minister of State for International Trade Gerald Regan has announced the signing of a contract in Indonesia between Hawker Siddeley Canada Inc., Trenton Works Division, and the Department of Communications, Directorate of Land Transportation and Inland Waterways, for the provision of 379 railway cars as part of the Bukit Asam Coal Mine Development Project.

The signing of this contract follows closely Mr. Regan's trade mission to Southeast Asia in May during which time he met with Indonesian ministers in support of bids by Canadian companies for the Bukit Asam project.

The Hawker Siddeley contract is worth some \$23 million and covers 259 coal wagons, 75 sand and ballast wagons in semi-knockdown condition, and 45 flat wagons to be delivered in a completely built-up form. The semi-knockdown units will be assembled in Indonesia by P.T. Inka, a local company.

Financing for this equipment is expected to be supplied by the Export Development Corporation as part of a loan for the Bukit Asam project.

The contract provides for the exchange of specialists between Canada and Indonesia for the purposes of technology transfer, and Hawker Siddeley will provide technical assistance to P.T. Inka during the assembly operations.

Displaced persons aided

Canada will provide \$975 000 in humanitarian assistance to the victims of the civil war in El Salvador, Deputy Prime Minister and Secretary of State for External Affairs, Allan J. MacEachen, has announced. The grant is in response to appeals from the International Committee for the Red Cross (ICRC) and will be provided through the International Humanitarian Assistance (IHA) program of the Canadian International Development Agency (CIDA).

As the scale of violence mounts in El Salvador, the number of displaced persons in need of assistance increases. Estimates put the number of displaced persons between one-quarter and one-half a million. They require a wide range of emergency relief, from food, temporary shelter and bedding to medical assistance and protection.



Ron Nunney

De Havilland's Dash 8 on maiden flight.

European satellite contract

Spar Aerospace Limited, the Toronto-based firm that built the highly successful arm for the US space shuttle, has signed a \$65-million contract to help build a new European satellite.

Spar will build solar array and signal amplifiers for the L-Sat, a 50-metre long, new-generation communications satellite being built by the European Space Agency (ESA). The Canadian company will also handle assembly, integration and testing of the spacecraft under the contract signed with British Aerospace PLC, the prime contractor.

At the signing ceremony, Spar chairman Larry Clarke said the contract will create 1 200 man-years of work at Spar plants in the Montreal, Toronto and Ottawa regions.

Total value

The L-Sat is the largest project of the European Space Agency so far, with a total value of about \$600 million. British Aerospace is teamed with Selenia Industrie Elettronich SpA and Aeritalia of Italy, Fokker NV of the Netherlands and Spar to launch the satellite by 1986.

Peter Hickman of British Aerospace said Spar's contribution to the project will be about 11 per cent, with the balance to be done in Europe.

The satellite will weigh more than 2 000 kilograms. The solar panels being built by Spar will generate up to seven kilowatts of power. At launch in 1986, they will fit into containers only 200 millimetres thick, stretching out to 50 metres, or half the length of a football field, when they are deployed in space about 36 000 kilometres over the equator.

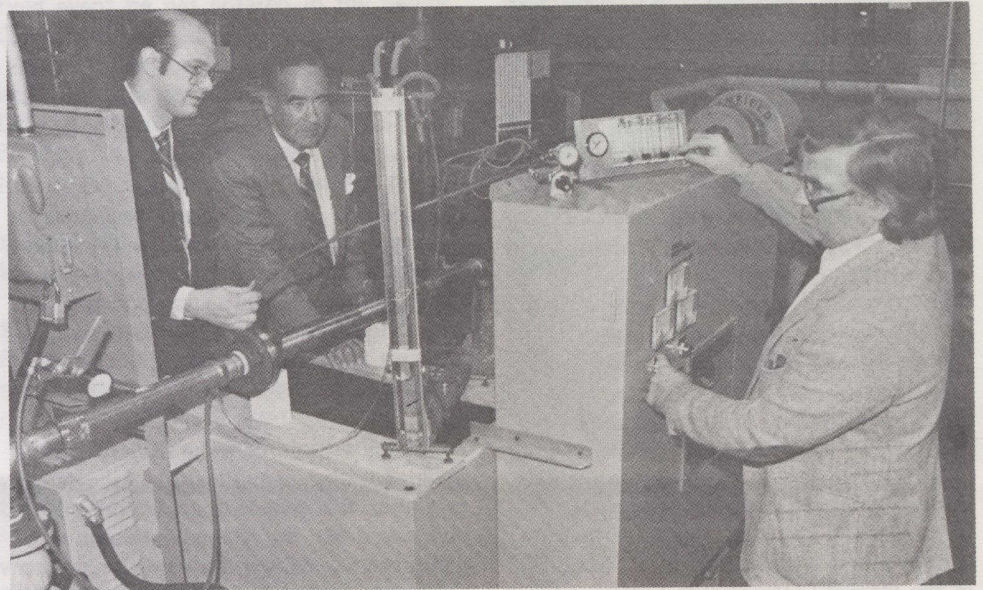
The L-Sat will be used for TV communications, high-density telecommunications, voice, data and video links to small earth stations and high-capacity, inter-city telecommunications services.

Largest effort

Spar's participation in the program is its largest effort in satellite communications since it won a \$170-million order early this year to supply satellites to Brazil, with options to buy two more for \$50 million each.

The federal Department of Communications has awarded Spar an \$8.5-million contract for studies on an M-Sat satellite designed to improve mobile communications services.

College sets up centre for industrial research



Director of Ryerson's Centre for Industrial Development Harry Rosier (centre) watches technologists Jerry Karpynczyk (left) and Robert Pope run tests on Kenics mixer.

A new centre for industrial development at Toronto's Ryerson Polytechnical Institute has become one of the largest consulting services in Canada.

Drawing on over 600 faculty members in dozens of different disciplines, the centre conducts a wide range of research projects for the private sector and for government.

Projects undertaken by the centre since it was established in June 1982 include product and equipment tests, computer software design and nutritional research. But the scope of potential activity is as wide as the expertise of Ryerson's faculty, which ranges from management consulting, technological assessment, chemical testing and energy conservation to architecture and landscape project planning, audio-visual program development, marketing studies, financial analysis and production efficiency.

Director Harry Rosier was selected to run the new centre just six months after his retirement as vice-chairman of Abitibi-Price Incorporated. He assesses all project proposals, speaks to department heads about appropriate staff to handle them and then oversees the work to ensure it is conducted in a businesslike way.

"The private sector requires all the help it can get in these recessionary and increasingly competitive times and we can provide it at a much lower cost than other consulting services," said Mr. Rosier.

No job is too big or too small for the centre which establishes the fee for a

project through discussion between the client and Mr. Rosier. So far, project costs to the client have ranged from \$215 to \$175 000.

Provincial funding

The centre, established with a \$100 000 grant from the Ontario Ministry of Industry and Trade, not only acts as a resource for industry and government, but provides significant benefits to Ryerson's staff and students. It keeps them in tune with the problems and opportunities of the marketplace and ensures that students develop research skills applicable to industry and government.

"Our target is to involve between 10 and 20 per cent of the faculty in projects for the centre and this could easily result in 500 to 1 000 students receiving hands-on research experience annually," said Ryerson president Brian Segal.

A management board has been appointed to help shape the centre's over-all direction, to ensure that all projects fall within its stated mandate and to determine that all funds are used according to established criteria. Although the centre has only been open for eight months, it has already done work for 11 companies and government ministries and it is negotiating with 13 others.

The centre invites approaches from prospective clients by letter, telephone call or personal visit to its offices in Jorgensen Hall, Ryerson Polytechnical Institute, 50 Gould Street, Toronto M5B 1E8, Canada.

Talking book industry booms for Canadian entrepreneur

It is pleasant to relax in your favourite chair and enjoy a good book. It is even more pleasant when you do not have to turn the pages. Now, instead of reading, you can hear the exploits of *Smiley's People*, *Jane Eyre* and *Alice in Wonderland* courtesy of Listen for Pleasure Limited.

A small Downsview, Ontario firm, Listen for Pleasure, is the leader in the talking book industry in North America. But getting there was not easy. The company had to fight an uphill battle to market books on cassettes.

"The only reference to talking books prior to our arrival on the market had been 30 years of publicity from organizations like the Canadian National Institute for the Blind and the Library of Congress in the United States," says Terry Durkin, president of Listen for Pleasure. "We had to overcome the consumers' notion that talking books were something that only blind or handicapped people used."

The company seems to have done the job. Since beginning in 1980, the firm has sold almost a quarter of a million units at a suggested retail price of \$13.95 and increased the selection from 37 to 79 titles. "We expect to have 90 titles by the end of 1983," Mr. Durkin says.

"We hope to build up our drama section. Not only are dramatizations effective on tape but Shakespearian plays were designed to be performed in two to three hours, so that fits in with our two 90-minute cassettes."

The idea of selling abridged books on cassettes (running on average for 2.5 hours) was developed by a subsidiary of EMI Thorne Group in Britain. Mr. Durkin heard about EMI's cassettes through a request to his Library Sounds Systems Ltd., which supplies educational recordings to libraries and schools. "If it was selling in Britain, why not here?" says Mr. Durkin. "So I approached EMI, negotiated a deal and set up Listen for Pleasure as a separate company to handle the Canadian rights to the British cassettes."

Mr. Durkin's entrepreneurial drive spurred Listen for Pleasure to a larger role than a distributor of imports. Now he can stress the Canadian content of his product. "Even though the master tapes are recorded in Britain by British actors, we have contracted Ontario-based firms to do package design, printing, die-casting and tape reproduction."

His goal was to expand into the United States and prove to EMI that his company was capable of handling the entire North American market. "With the US entry, sales are growing rapidly," Mr. Durkin says. "Last year sales were divided evenly between Canada and the United States. This year our Canadian market hasn't changed but things are booming in the US — to the point that we expect 80 per cent of our product to be sold there."

"We kept our staff streamlined with six people at head office (Downsview) and sent five people to Lewiston, New York to set up an American link."

Durkin's staff look after inventory, promotions and finances. He has Canadian distributors to co-ordinate sales in each of the educational direct mail and retail markets, in addition to American distributors who operate in the same three markets.

With a growing market and working capital on hand, Listen for Pleasure hopes to sell 2 to 3 million units in North America by 1985. And if Terry Durkin has his way, the company will continue to expand its markets all over the world.

Research on spine called 'fantastic'

Two Montreal brain researchers have made startling discoveries they describe as "an essential first step" if regeneration of the spinal cord is to become a reality.

Dr. Peter Richardson and Dr. Michael Rasminsky of McGill University, Montreal, told the Canadian Paraplegic Foundation in Toronto that nerves of the central nervous system (CNS) will grow into a piece of peripheral nerve grafted to a damaged spinal cord.

(Peripheral nerves, such as nerves from arms or fingers, are known to regrow after injury, but brain and spinal cord nerves were thought not to regenerate.)

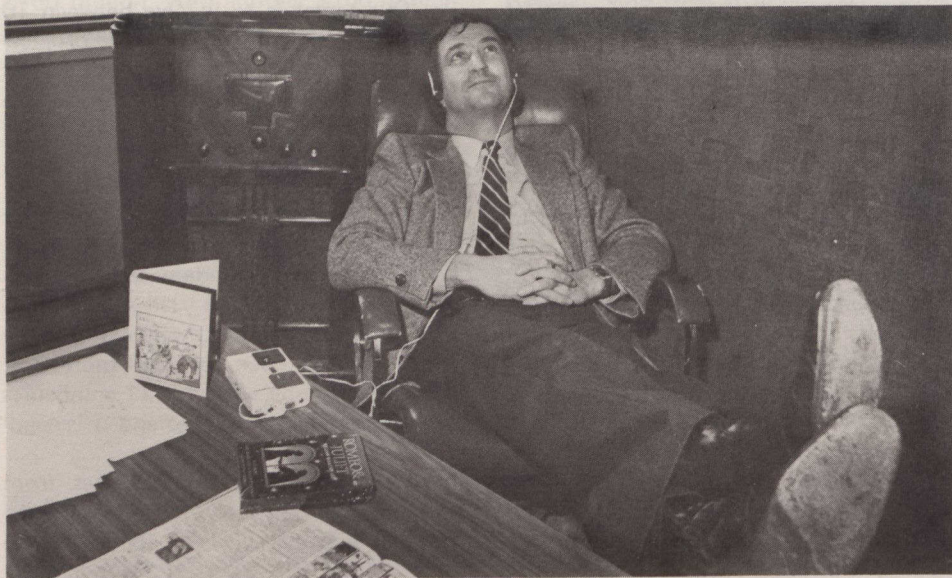
A "bypass" for a severed spinal cord is still far off — Dr. Rasminsky said the scientists do not know yet if the nerve fibres would function, or even continue to grow — if they are "plugged back into the CNS".

However, Dr. Charles Tator is greatly encouraged by their research. "Prior to this," he said, "we didn't know if the central nervous system had the potential to grow out into grafts. Unfortunately, it has not yet reached the stage where one would want to try it on a patient."

Dr. Tator is head of neurosurgery at Toronto's Sunnybrook Medical Centre and internationally known for his research and treatment of spinal cord injuries.

The Canadian Paraplegic Foundation was formed in 1981 to focus attention and research on spinal cord injury which affects an estimated 20 000 Canadians.

Dr. Rasminsky said grafts have been carried out on various parts of the brain in rats, including the cortex, the cerebellum (the part of the brain responsible for the fine tuning of physical movements) and the brainstem (responsible for autonomic functions, such as breathing).



Terry Durkin, president of Listen For Pleasure relaxes with a talking book. The abridged books are recorded on cassettes for easy listening.

New fashion school in Toronto

A Chicago-based academy of fashion merchandising and design, as well as interior design, plans to open a campus this September in Toronto, reports the *Canadian Press*.

The academy, an affiliate of The Academy, Chicago, will offer students a two-year diploma program. Former Canadian world figure-skating champion Barbara Ann Scott has been named chancellor of the Toronto campus.

Registered and approved as a private vocational school under the Private Vocational Schools Act, The Academy in Toronto will be headed by president Jori Kadlec, former dean of the school of fashion arts at Sheridan College in Oakville, Ontario.

Unlike most colleges, The Academy's faculty is expected to comprise leading professionals currently active in fields of fashion design, merchandising and interior design.

Admission requirements for the two-year course include a Grade 12 diploma or secondary school graduation diploma or mature student status (age 19) plus demonstrated skills or interest in the general subject area offered by the college. Applicants must also pass a personal interview.

Annual fees excluding supplies and tax will be \$3 500 for three ten-week terms. Students must provide their own accommodation and personal expenses.

There are approximately 15 community colleges in Canada offering fashion design and merchandising courses. The new college will accommodate 150 students in the first year and eventually will have a capacity of 400.

Fitness doctor still going strong

Dr. Thomas Kirk Cureton, 81, gets more exercise in one day than many North Americans manage in a week, reports the *Canadian Press*.

That is only fitting for a man who helped eliminate a lot of flab since he wrote a book on exercise published in 1941.

Since 1936, Dr. Cureton has written almost 1 000 articles and more than 56 books, including *Physical Fitness* and *Dynamic Health*.

Dr. Cureton, who lives in Winnipeg, practices what he preaches — running, swimming and cycling an average of

about 30 kilometres a day. He has won virtually every swimming and track and field event he has entered in the Senior Olympics in the United States.

When not competing or training, he edits a physical fitness encyclopedia. Dr. Cureton has conducted more than 600 clinics on physical fitness and has lectured in 70 countries.

"I'm still going very hard, but I'm not the only older person who's still exercising hard. There are hundreds like me."

Strenuous activities

Perhaps, but his own program is a little more strenuous than the one he recommends for the middle-aged.

He generally starts the morning with a walk of 3 to 4 kilometres, accompanied by his wife, Portia, a youthful 65.

He spends the rest of the morning working, then breaks to walk and jog, following that with a few warmup exercises and a swim. Later in the afternoon, he will cycle 15 to 20 kilometres and go for another swim.

For 25 years, Dr. Cureton directed the physical fitness research laboratory at the University of Illinois, where he is professor emeritus and director of the university's physical fitness institute.

Voice-controlled wheelchair

A new wheelchair operated by the sound of the voice could offer new mobility and independence to quadriplegics who cannot manage the stick controls on the standard electric wheelchairs.

A standard electric model coupled with a computer, the wheelchair is controlled solely by voice commands and requires no body movement whatsoever.

The voice-operated wheelchair was developed by Haleh Vafaie, a fourth-year student in the systems and computer engineering department at Carleton University, Ottawa.

The 21-year-old Iranian said she chose the project because "I always wanted to help people, so this is my way of doing that."

Vafaie has worked on the chair since last fall, programming the computer to recognize voice commands and change them into signals that control the chair.

The chair responds to seven commands — left and right (forward turns), east (backward turn to the right), turn (backward turn to the left), forward, back and stop — in each of three speeds, precaution, slow and normal.



Haleh Vafaie (left) and Archie Bowen (right) with wheelchair victim, Bob Brown, in voice-controlled wheelchair.

"Listen" prepares it for a command, and "relax" tells it to ignore any voice sounds.

Vafaie said it is important to have the relax command because "the person in the chair may stop to talk to someone and say 'I left my books at home'. If the computer is in the listen mode, the chair may start moving left".

The computer can be programmed to recognize any sound in any language. Because it recognizes a sound's frequency, it must be re-programmed for each person's voice.

Vafaie's supervisor, Archie Bowen, said the voice-controlled wheelchair "brings together a range of technologies already in existence".

The voice recognition unit inside the computer is an electronic board about the size of a sheet of letter paper. It has a 100-word vocabulary and is available only in the US.

A video terminal was donated by Digital Equipment of Canada Limited in Kanata and was booked into the university's computer. The cost so far has been about \$2 000, including about \$1 200 (US) for the voice recognition unit. The wheelchair costs about \$4 000 new.

Bowen, 53, said he expects the next step, combining the computer and voice recognition unit onto one prototype electronic board on the back of the wheelchair, to cost \$5 000.

Bowen said he doesn't know if there is a commercial market for a voice-operated wheelchair, but said manufacturing costs would depend on volume.

New stamps commemorate World University Games and Canadian forts

Two postage stamps have been issued to honour the 4 500 athletes from nearly 90 countries participating in the World University Games taking place in Edmonton, Alberta, this month. The games are held every two years and are, in terms of the number of sports and athletes involved, second only in importance to the summer olympics.

Participants must be either university students or less than a year out of university. Their ages must be between 17 and 28 years. Competitions are held in track and field, swimming, diving, cycling, fencing, basketball, volleyball, tennis, water polo and gymnastics.

The Universiade '83 stamp designs are intended to capture the spirit of the event by using a victory pictogram against a background of official colours representing the various disciplines included in the games. Edmonton graphic artists Krista Huebner and David Kilvert designed the stamps.



Heart experts to meet in Ottawa

The world's leading heart specialists will meet in Ottawa for an international meeting this fall.

The symposium to be held September 10-12 will mark the official opening of the University of Ottawa's new cardiac unit at the Civic Hospital.

The symposium, entitled "Perspectives in Coronary and Valvular Disease", will include reviews by ten of the world's leaders in heart disease.

At the symposium, world renowned specialists will discuss the current thinking and techniques involved in the investigation and treatment of heart disease.

As many as 1 000 health workers involved in the treatment and rehabilitation of heart patients are expected to attend.

Guest speakers are to include: Dr. Viking Bjork from Sweden's Karolinska Institute; Dr. Mortimer Buckley, chief of the cardiac surgical unit at Massachusetts General Hospital and surgery professor at Harvard; Dr. Denton Cooley, surgeon-in-chief at the Texas Heart Institute; Dr. J. Willis Hurst, chairman of Emory University School of Medicine; Dr. Marian Ionescu, consultant cardiothoracic surgeon, Leeds, England; Dr. Michael Pollock, director of the cardiac rehabilitation program at the Mount Sinai Medical Centre; Dr. J. Isobel Dawson Roncari, associate professor, School of Nursing, Victoria, British Columbia; Dr. H.J.C. Swan, professor of medicine at U.C.L.A.; Dr. John H. Tinker, chief of the cardiovascular anesthesia group, Mayo Clinic; and Dr. Barry L. Zaret, chief of Yale University's cardiology section.

Child abduction treaty

Canada has ratified an international treaty which would ensure that children kidnapped from their home country by one parent could be returned to their rightful guardian, Justice Minister Mark MacGuigan has announced. The convention, ratified by Canada and France, must still be signed by a third country before it comes into force. And it will apply only in those countries that have ratified and apply only to international cases occurring in provinces which have signed the treaty. Mr. MacGuigan said Belgium, Greece, Portugal, Switzerland and the United States have all signed the convention and are expected to ratify it in the near future.

Canadian forts

Also issued recently is a series of ten commemorative stamps portraying historic Canadian forts. The ten stamps have been issued in booklet form only. This will be the first time that commemorative stamps have been issued in this form since the 1954 five-cent beaver stamp. This booklet not only offers a convenient way to purchase ten stamps but also increases Canadians' awareness of commemorative stamps.

The ten forts featured are: Fort Beauséjour, New Brunswick; Fort Chambly, Quebec; Fort at Coteau-du-Lac, Quebec; the Halifax Citadel/Fort George, Nova Scotia; Fort Henry, Ontario; Fort No. 1, Point Lévis, Quebec; Fort Prince of Wales, Manitoba; Fort Rodd Hill, British Columbia; Fort Wellington, Ontario and Fort William, Ontario.

The stamp booklet features a map of Canada showing the location of all ten forts, with a keyed legend inside the cover. It also contains a miniature pane of ten stamps, each showing a different fort. There are descriptive legends about each fort in the margins of the stamp pane adjacent to the respective fort stamp.



Canadian-born star dies

Actress Norma Shearer, an Oscar-winning leading lady of the golden age of Hollywood who married one of film's brightest moguls, has died at age 80.

The Canadian-born star, whose career peaked in the 1920s and '30s, died in Los Angeles where she had lived since September 1980. The cause of death was broncho-pneumonia.

The brown-haired grey-eyed actress won an Academy Award for her performance in the 1929 film *The Divorcée*. She was nominated as best actress for her roles in *Their Own Desire*, 1929; *A Free Soul*, 1930; *The Barretts of Wimpole Street*, 1934; *Romeo and Juliet*, 1936; and *Marie Antoinette*, 1938.

She also scored screen triumphs in *Idiot's Delight*, opposite Clark Gable, *Strange Interlude*, *Smilin' Through*, *Tower of Lies*, *Strangers May Kiss*, *A Lady of Chance*, *The Stealers* and *The Women*.

Married to Irving Thalberg, Metro-Goldwyn-Mayer film production genius, in 1927, Shearer was widowed in 1936 when Thalberg died unexpectedly at age 37, shortly after producing *Romeo and Juliet* and *The Good Earth*.

Shearer married her second husband, French ski instructor Martin Arrouge, in 1942 — the year she made her last film, *Her Cardboard Lover*.

Born Edith Norma Shearer in August 1902, in the Westmount area of Montreal, she left school at age 14 to embark on a stage career. She later played piano in motion picture theatres while she and her sister, Athole, took minor parts on Broadway.

Ultimately, Shearer gained more important parts and a trip to Hollywood, where she met the youthful Thalberg at MGM.

French literary prize

Quebec author Gaetan Brulotte and poet Guy Gervais were chosen recently as co-winners of the 1983 France-Quebec Jean-Hamelin Literary Prize. Brulotte was honoured for his book *Le surveillant*, a collection of ten short stories whose theme is the law and the people who enforce it — from judge to doorkeeper.

Guy Gervais, an employee of the Department of External Affairs, Cultural Division, was awarded the prize for his collection of poems in a book entitled *Gravité*.

Canadian painter Alex Colville featured in first major retrospective



Dog and Priest, 1978, acrylic, by Alex Colville.

The first major exhibition of the work of Canadian painter Alex Colville opens July 22 at the Art Gallery of Ontario in Toronto and runs until September 18. *Alex Colville: A Retrospective* will then travel to Berlin and Cologne in Germany, and across Canada to Montreal, Halifax and Vancouver during its year-long tour. The show is being sponsored by Norcen Energy Resources Limited.

Organized by David Burnett, curator of contemporary Canadian art, the retrospective brings together from widely dispersed public, private and corporate collections nearly half of the paintings Colville has created over the past 40 years. Fifty-seven paintings will be shown, along with 96 preparatory drawings and seven serigraphs.

Although Colville images such as *Horse*

and *Train*, *To Prince Edward Island*, *Family and Rainstorm* and *Pacific* are familiar to many, few people have had an opportunity to study and enjoy the many layers of meaning and the complexity of execution integral to the work of Alex Colville.

It is not unusual, says Dr. Burnett, for Colville to work five or ten years on an idea for a painting or serigraph. A section of the show will provide insight into how the artist works through sets of preparatory sketches and drawings relating to five paintings and one serigraph.

In conjunction with the exhibition, the Art Gallery of Ontario and McClelland and Stewart have co-published a monograph on Colville's work, including a descriptive catalogue of all his paintings and serigraphs, written by David Burnett.



Seven Crows, 1981, acrylic on canvas.

News briefs

In a bid to win a major slice of the world market for tele-communications technology, Nova Corporation of Calgary and Alberta Government Telephones (AGT) of Edmonton have announced the formation of Novatel Communications Ltd. of Calgary, the first Canadian-owned company to offer a complete turnkey cellular radio system. Nova and AGT will share equally in the Novatel joint venture which provides both cellular systems and mobile cellular telephones. The basic foundation for Novatel Communications was established through the acquisition and reorganization of Westech Systems Ltd. of Edmonton and International Systcoms Ltd. of Montreal.

Eleven Canadian financial institutions, including chartered banks, Caisses de dépôt, insurance firms and Northern Telecom Pension Trust Fund, have formed a credit-insurance company to help make more fixed-rate loans available to medium-size corporate borrowers. To be called the Industrial Credit Insurance Company (ICIC), the firm, headquartered in Toronto, will make use of a recent federal reinsurance policy under which the government will agree to take a portion of the loan risk for such a company. Participants have agreed to put up a total of \$25 million. ICIC is a new kind of institution in Canada and will be regulated by the office of the federal Superintendent of Insurance.

Canadians want free trade with the United States just as much as they did 30 years ago, according to a recent Gallup Poll. In a survey of more than 1 000 adult Canadians, the public opinion institute found 54 per cent of respondents felt Canada would be better off without tariffs and custom charges between the two countries. While 29 per cent felt Canada would be worse off with free trade, 17 per cent could not make up their minds. The results were almost identical to those of 1953, Gallup said. Only in Ontario did less than a majority approve of free trade with the US.

A report from the Newfoundland Petroleum Directorate says that there might be as much as 15 billion barrels of recoverable crude oil off the province's shores, including 2.5 trillion litres of natural gas off the Labrador coast and on the Grand Banks. Canada's largest offshore find may require new technology to extract oil unreachable by conventional drilling.



Rod Macivior, The Citizen

Equine ecstasy! A group of friends gathered together at Farrier's Farm near Ottawa recently. They were joined by four-year-old Tuff-E-Nuff who sat down at the table and tucked into his own bowl of oats.

Defending world champion John Primrose of Edmonton, Alberta, shot 188 targets out of 200 to win the World Moving Target Championships held recently in Edmonton. In women's competition, the top Canadian was Susan Nattrass of Edmonton who took the bronze medal with a closing score of 169 targets out of 200.

Microtaure Inc., an Ottawa-based computer software house specializing in Telidon applications, has signed a distribution agreement with Mitsui and Co. Ltd., the leading Japanese trading company which recently acquired exclusive sales and marketing rights for Telidon in Pacific Rim countries. Microtaure's Teligraph software for decoding and page creation is the first complete implementation of the Telidon-NAPLPS North American videotext standard. It not only permits on-line decoding of Telidon-format pages of information using standard off-the-shelf microcomputers, but also provides full facilities for the creation of pages which are faster and more versatile than the conventional approach.

Streamlined application regulations to the Foreign Investment Review Agency took effect July 2. They will be applicable when a foreign company proposes to make a new investment or plans to directly acquire a Canadian company with up to \$5 million in assets and 200 employees. Previously, the regulations

had set a limit at \$2 million in assets and less than 100 employees. Indirect acquisitions involving \$15 million or less in assets and fewer than 200 employees will now also qualify for shorter review.

Sue Holloway of Ottawa was a double gold medal winner as Canada dominated the kayak events at an international canoe and kayak regatta held recently in Vichy, France. The Canadians also claimed seven silver and three bronze medals. Holloway teamed with Alexandra Barre of St. Foy, Quebec, for the gold medal in the women's K2, then teamed with Barre, Lucie Guay of Montreal and Barbara Olmstead of North Bay, Ontario, to win the K4.

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