

# BIO-OCEANS ASSOCIATION NEWSLETTER

<http://fox.nstn.ca/~pitech/NewBIONews>

Issue 14

January 2002

## THE PRESIDENT'S FORUM

by Dale Buckley

Happy New Year!

As we begin 2002, there are a number of initiatives that will involve participation of the BIO-OA members. We need your help and support.

- ⇒ A call has gone out for nominations for the second annual Beluga Recognition Award. We need everyone to give some thought to nominating a deserving candidate for this award before the deadline of February 15, 2002.
- ⇒ We have now established a volunteer agreement with the Federal Departments in BIO so that BIO-OA members will be able to carry out volunteer activities in BIO under the insurance protection of the Federal Government.
- ⇒ BIO-OA will play a significant role in the 2002 BIO Open House. This will include your president acting as master of ceremonies at the opening on April 25, as well as members presenting a display of activities and artifacts in one of the booths that will be open during the open house. BIO-OA volunteers will also be

needed in a number of other activities during the open house.

- ⇒ BIO staff has initiated an oral history project for recording personal recollections of the history of BIO. This project will involve interviews with current and former staff who recall aspects of historical significance at BIO. Several members of BIO-OA may be asked to participate in this project.
- ⇒ Office space has been provided in BIO for BIO-OA members to review photographs and help in providing documentation and cataloguing of photographs currently held in the BIO library. Some of these photographs are from early days at BIO, while others include activities and events from the 1970's and 1980's.
- ⇒ The 2002 BIO calendar has just been prepared for sale. Art Cosgrove, with help from the BIO-OA late in 2001, carried out production of this calendar, based on the theme of technological innovation over the years. Next year, we would like to have the calendar theme and design work begun much earlier in the year so that the 2003 calendar could be available for sale early in December of this year. ✦

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### ***Coming in the Next Issue...***

CCGS Hudson, a snapshot of historic firsts as compiled by Captain Richard Smith. Look for it in early April.

## AIRSCAPE TO NOVA SCOTIA FOR SOME GREAT VIEWS

By Michael Latrémouille

Looking for an ideal and reasonably priced gift that truly showcases the beauty of Nova Scotia? "AirScapes Nova Scotia" may be just what you need. It is a compact disk sold for only \$19.95 that contains superb aerial photos by PEI photographer Ron Garnett. The photos are designed to be used as screen savers and wallpaper on your computer, and they are also ideal for web page designs and desktop publishing applications.

At Christmas, I gave a copy of the CD to my eldest son who now lives and works in the USA in order to help him remember his Nova Scotia roots on a daily basis. The photos on this CD have a hypnotic power. Set your computer's screen saver to change images every 10 or 20 seconds then sit back to watch a slide show that will give you a perspective usually reserved for pilots of small planes. Pictou Island, Caribou Island, Burncoat Head, Melmerby Beach, the Seaside Adjunct, Chester, Annapolis Royal, Halifax—there are 160 Nova Scotia photos on the CD and, in a separate file, there are an additional 104 aerial photos from other parts of Canada and other countries as distant as the Cook Islands in the South Pacific.

"AirScapes Nova Scotia" is only one of the CDs available from the same photographer. Others in the series, also available for \$19.95 each, include "AirScapes Maritimes", "AirScapes New Brunswick", "AirScapes PEI", and "AirScapes Canada" (which has 297 images on it).

To get more information and to order these products, you can check out these web sites: <http://www.weathersense.com/software.html> or <http://www.airscapes.ca/>

The AirScapes Screen Saver CD-ROMs are also available at these Metro locations:

Compucentre, Gateway Computer Service, Japan Camera (at Micmac Mall), Carrefour Atlantic Emporium, The Paper Garden, The Plaid Place, Bookmark, Halifax Training and Guidepost, and Com-

puter Renaissance. The AirScapes Canada screen saver CD is also available at some Canada Post outlets. ✦

## ALL AROUND OUR WEB SITE

By the Web Master

As most of you know, the BIO-Oceans Association has maintained a web site for the past two years. The purpose of the site is to mix some archival material with reports on the latest activities of BIO retirees. In particular, the technology makes it easy to post and distribute photographs and other illustrations.

Every web site needs a "make-over" once in a while to insure efficient functioning. This has been done recently to the BIO-Oceans Association site (<http://fox.nstn.ca/~pitech/newbionews>). We hope that you will find the navigation around the site easier. We have also added a page of links to selected sites that may be of interest to BIO Associates. It is not intended to make this a comprehensive list of links to any particular subject area. There are already many excellent sites doing just that. The intention is to highlight a few gems at the time, the sites that might not be easy to find but that carry particularly useful or interesting information. The links are accessible through the "About Us" page. The first five are described below.

Discoverers Web is a cornucopia of information about the History of Discovery. The site is in Holland and the originator's interests are in Dutch and Portuguese exploration. The discovery of the New World is well covered. The site is "all meat and no bones." There are no embellishments and there is not a graphic in sight, but the content is very, very rich. (<http://www.win.tue.nl/~engels/discovery/>).

The Geography and Map Division of the Library of Congress, Washington, DC, is an example of what can be done given unlimited resources. The site is beautifully designed and rich in content. About 100 new maps (which can be examined in detail using a 'MrSID' plug-in) are added every 2-3 months. Considering the LC's mandate, the emphasis on the USA is not surprising. (<http://www.loc.gov/r/geogmap/>)

## ON THE LIGHTER SIDE

A skeptical anthropologist was cataloguing South American folk remedies with the assistance of a



tribal brujo who indicated that the leaves of a particular fern were a sure cure for any case of constipation. When the anthropologist expressed his doubts, the brujo looked him in the eye and said, "Let me tell you, with fronds like these, who needs enemas?"

A marine biologist developed a race of genetically engineered dolphins that could live forever if they were fed a steady diet of

seagulls. One day his supply of the birds ran out, so he had to go out and trap some more. On the way back, he spied two lions asleep on the road. Afraid to wake them, he gingerly stepped over them. Immediately, he was arrested and charged with transporting gulls across sedate lions for immortal porpoises.

Back in the 1800s the Tates Watch Company of Massachusetts wanted to produce other products and, since they already made the cases for pocket watches, decided to market compasses for the pioneers travelling west. It turned out that although their watches were of the finest quality, their com-

passes were so bad that people often ended up in Canada or Mexico rather than California. This, of course, is the origin of the statement, "He who has a Tates is lost!"

A thief broke into the local police station and stole all the lavatory equipment. A spokesperson was quoted as saying, "We have absolutely nothing to go on."

Evidence has been found that William Tell and his family were avid bowlers. However, all the league records were destroyed in a fire. Thus we'll never know for whom the Tells bowled.

Friends of Hydrography are building an ambitious site to document the history of Hydrography in Canada. The content is already rich and the "work in progress" indicates that this site will be a major source of information about the past and present developments in hydrography. (<http://www.canfoh.org>)

The Historical Atlas of Canada Online Learning Project is a good example of what an educational site should be. Using the wealth of material collected for the production of the four-volume Atlas, the site explores many physical and social developments in Canada. (<http://mercator.geog.utoronto.ca/hacddp/page1.htm>)

The official US time-clock is a fun site. It gives the current time accurate to a second and shows a handy day/night chart of the world. I have made this page

my default page so that every time I load the browser, I get a time-check. From this site, you can download a short program which will synchronize your computer clock with the atomic standard in Boulder, CO. A link to "Time Exhibit" leads to a fascinating exploration of the history of time measurements, calendars, clocks, etc. (<http://nist.time.gov/timezone.cgi?Atlantic/s/-4/java>).

You may wish to consult the 'Links' page from time to time as we will be adding new links as we come across them. Enjoy! ✦

### UPDATE ON BIO OPEN HOUSE

by Jackie Dale

As was announced in September, the new dates for the BIO Open House are April 25-28, 2002. Plans for the BIO-Oceans Association exhibit are well in

hand. Our exhibit will highlight the Beluga Award, its history and significance; the very first hydrographic chart; a power point history of BIO; archival gear, featuring 13 items used in long-past oceanographic cruises (see if you know them as well as you think you do); and photographic coverage of many of our Association's activities.

Roger Belanger will be putting his considerable photographic talents to work, and plans to follow, with his camera, one or two families as they travel from one exhibit to another.

Our president, Dale Buckley, did such a good job as MC of the opening ceremonies at the last Open House, that he was again requested to take on that responsibility. The official opening will be held on April 25th at 9:00am in the BIO auditorium. A special treat - the Grade VI choir of the Bell Park Academic Centre, Lake Echo, under the direction of Mrs. Margaret Pse Perron, will perform two selections. The ceremony will be short, but interesting, and would be a bright spot in your day, should you choose to attend.

Tom Clarke will be looking for members to volunteer their services throughout the Institute, to greet visitors, provide information, act as parking attendants, etc. Please call him (435-1174) if you feel you can help out in any way. It will be an ideal way to provide a necessary service, meet one-time co-workers as well as other members of our own organization, and have some fun. Hope to see you there. ♦

### **FALL SOCIAL A WHALE OF A TIME**

*by Jackie Dale & Michael Latrémouille*

Since the fall social was so successful last year, we decided to once more hold this event in the BIO auditorium, and again, in the form of a wine and cheese party.

Fifty-one people attended and thoroughly enjoyed the good (and abundant) fare, conversation, and especially the presentation given by Dr. Paul Brodie.

Using a wide range of his own slides, Paul took us

on his personal voyages as a young scientist when he lived and worked among Inuit people in the Canadian Arctic as he pursued his studies of beluga whales, seals, and other marine mammals. Paul's avid research interests in the way these animals have adapted to their environment, his respect and admiration for the Inuit he met, and the personal nature of his experiences were much in evidence in his interesting presentation.

At this time we would like to offer our sincere thanks to Paul for his contribution to such an enjoyable evening. We are always looking for new ideas for our get-togethers...just give Jackie Dale a call at 466-2584 or contact the newsletter editor. ♦

### **BIO CHRISTMAS PARTY**

*by Jackie Dale*

Christmas fell on a Tuesday this year, which may explain why there were fewer people in attendance at the BIO yuletide gathering than was the case last year. Nevertheless, the spirit of the event was undiminished and the chowder and other food and beverages as good as ever (but no longer lasting).

Our Association was well represented and members took turns promoting sales of the two 2002 calendars produced by Art Cosgrove and Dale Buckley. One calendar, a completely new product for this year, covers the theme of technical innovation at BIO over the years. The second calendar is last year's edition with a 1992 calendar: it summarizes the chronological history of BIO and illustrates the history of the BIO campus in pictures as well as including snapshots of some of those who worked at the Institute. Each calendar is being sold for \$10.00 through the BIO Gift Shop. ♦

### **GENEALOGY AS A HOBBY**

*By Sally King*

*[Editor's Note: Let me encourage any of you who enjoy the following article and have your own family tales to share to please get in touch with me or Sally. We would love to hear from you and to publish your story.]*

Everyone has grandparents, great grandparents, etc., but what do we know about them? Now, with most of our parents gone, who is there to ask? Unless there is already a published history of your family or old family bibles or papers in your possession, you have to go to the official records – vital statistics, such as births, marriages, and deaths or church records and wills, etc., for your genealogical compilation.

Sally and Lew King (retired marine geologist) have been working on their family histories since 1955, the year they were married. Luckily for Sally, there had been a book published on her Emery family back in 1890 when there was a surge of interest in genealogy. Her first ancestor to come to the New World was Anthony Emery, a cabinet maker, who came to Newberry, Massachusetts, in 1635 from Romsey, Hampshire County, England. Lew found his first Nova Scotian ancestor in the book *History of Barrington Township* published in 1923. Isaac King and family came to Barrington in 1760 as a grantee from Cape Cod to settle on the lands confiscated from the Acadians.

Knowledge of his mother's Harlow family took him back to the old Fort Harlow House built in 1670 in Plymouth, Massachusetts, from the timbers of the original pilgrim fort. It is open as a museum and a family reunion is held there each summer

By researching records from various sources, the Kings have compiled a list of over 700 names of direct forefathers, with some notes on each and the places from which they immigrated. All were from the British Isles except for one surprise – Lew's great great grandmother was a Hilchey from Lunenburg whose ancestor was Jacob Hilchey who came on the Alderney from the Simme Valley in Switzerland and built in 1770 what today is believed to be the oldest house in Lunenburg, now known as the Romkey House.

There are two ways to "chart" your genealogy: A family tree which branches horizontally, like branches from a tree trunk to show brothers, sisters, cousins, and their offspring. Sally and Lew started out that way but their curiosity was definitely stronger on the "trunk" names, or direct line, which creates a vertical chart.

Their personal goal has been to trace each person back to the place from which they immigrated. Most names go back 13 generations. In some cases there has already been work done which follows some families back to the Domesday Book or the Norman invasion, etc., but they are not yet interested in going into those vague references.

Another surprise the Kings discovered is that they have three ancestors in common! Although Sally was born in New Bedford, Massachusetts, and Lew was born in Lockeport, NS, they discovered that Sally is descended from one Mayflower passenger named John Howland from Fenstanton Huntingdonshire and Lew is descended from John's brother, Henry, who followed his brother to North America several years later. (John was the "lusty" youth who fell off the ship in the mid-Atlantic during the Mayflower's voyage and was saved by grabbing a trailing rope as described in *Of Plymouth Plantation 1620-1647* by Samuel Morrison.)

William Ring [1580-1621] from Pettistree, Suffolk County, is another common ancestor. He was on the *Speedwell*, the ship that turned back on the *Mayflower's* voyage, so he never came to America. His daughter Elizabeth is Lew's ancestor and his daughter Susanna is Sally's ancestor. Recently, they have discovered that George Lewis [1600-1663] from Brenchley, Kent, is another common ancestor.

The Kings have found that their travels through the British Isles have been much more rewarding since they visited the places where their ancestors had lived for thousands of years before deciding to leave their homes and family and friends to venture off to an unknown future in North America. Lewis has found proof that six *Mayflower* passengers are his ancestors!

Genealogy is a great way to make new friends who happen to be distant relatives. You never know whom you might meet from all over the world!

We are fortunate to have the NS Archives and the Mormon Centre nearby and also the tremendous amount of genealogy available on the internet. We found the most versatile program to be "Generations", a Windows-based program.

The Kings started their genealogy before the advent of home computers, but later used the CAD drawing program to make their own charts. They have now copied their research onto a CD complete with pictures.

For anyone curious about their great grandparents and other ancestors, the best way to start is to gather up all information known today and go from there. Here is a brief list of books which pertain to Canadian genealogy:

Genealogical Research in NS by Terry Punch

The Canadian Genealogical Handbook

by Erik Jonasson

In Search of Your Roots by Angus Baxter

Debrett's Family Historian by Briggs and Gambler

### **CSS KAPUSKASING, A HISTORY**

By Brian MacLean

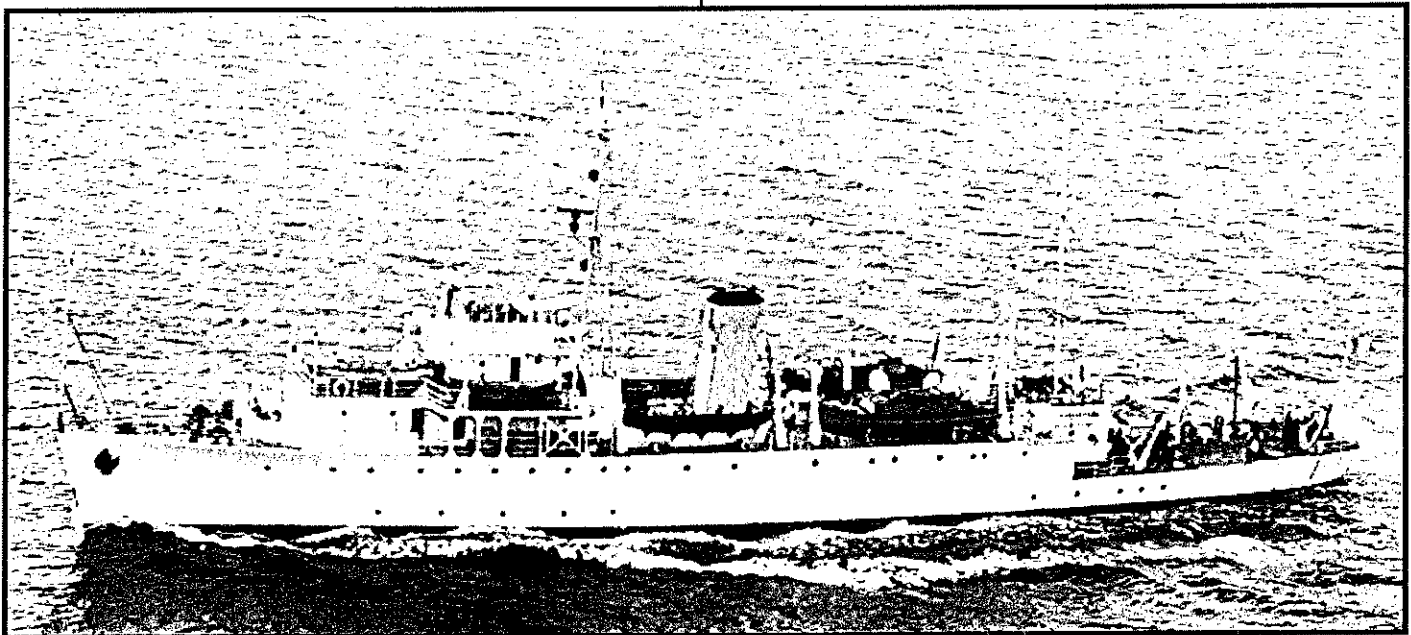
*[Editor's Note: This brief history of the CSS Kapuskasing was compiled by Brian MacLean with contributions from Donnie Clattenburg, Heiner Josenhans, Lewis King, Doug Loring, Ted Smith, and Ken Williams and other CHS staff. Brian would welcome any comments or suggestions for improvement you might wish to make.]*

HMCS *Kapuskasing*, an Algarine class naval vessel, was commissioned in Port Arthur, Ontario, on Au-

gust 17, 1944. Upon completion of workup, she was assigned as senior ship to EGW1 of the Western Escort Force. In June of 1945, she was transferred to the reserve fleet in Sydney, N.S. Her civilian service commenced in 1949 when she was loaned to the Department of Mines and Technical Surveys and converted for hydrographic survey work. CSS *Kapuskasing* was returned to the navy in 1972 and was sunk as a target ship on October 3rd, 1978.

During her civilian service, CSS *Kapuskasing* was one of the primary east coast hydrographic survey vessels of the Canadian Hydrographic Service, and she also undertook marine geological and other oceanographic investigations in many offshore regions of Eastern Canada. Early on, she carried out extensive hydrographic charting of the Scotian Shelf and adjacent regions using primarily DECCA navigational systems. This work was the main source of information for the Canadian Hydrographic Service's fine series of fisheries charts showing the bathymetry of these regions.

Bathymetric and morphological data from these charts and the acoustic parameters of seabed sediment units displayed by the echograms collected during the hydrographic surveys were basic components utilized in the marine geological surveys and studies of the Scotian Shelf. The Shelf work was conducted primarily from CSS *Kapuskasing* during the 1960's by marine geologists of the Marine Sci-



**Ship Specifications:**

Length 222 feet, Breadth 35.5 feet, Draft 12.5 feet, Displacement 1250 tons

**Captains:**

D. Snelgrove  
P. Brick  
W. Thorne  
A. Porter  
W. Wagner

J. Vieau  
A. Turnbull  
J. Taylor

**Chief Hydrographers and Chief Scientists:**

G. Bartlett  
D. Charles  
E. Comeau  
R. Cooke  
P. Corkum  
F.L. DeGrasse

V. Goodwell  
R. Hanson  
K. Krank  
D.D. LeLievre  
D. Loring  
L.H. King  
B. MacLean  
J.I. Marlowe  
R.A. Piers  
A. Rogers  
D.J. Swift  
K. Williams

ences Branch, Department of Mines and Technical Surveys, (which later became the Atlantic Geoscience Centre, then the GSC Atlantic) based at the Bedford Institute of Oceanography. Geological maps of the seabed were subsequently published as companion maps to the hydrographic charts. In addition to the work conducted on the Scotian Shelf and adjacent areas, CSS *Kapuskasing* carried out hydrographic and other marine scientific investigations on the Grand Banks, Gulf of St. Lawrence, Northumberland Strait, Bay of Chaleur, and Scotian Slope.

The CSS *Kapuskasing* was a dependable vessel manned by an equally sturdy, willing, and dependable crew. Powered by a triple expansion steam engine driving twin screws, she was an acoustically quiet ship from which to do high-resolution seismic surveys. She still had many of her naval attributes in her civilian life. One of these was an open bridge fitted with a small "dog house" barely big enough for two to work. It was from there that the ship's deck officers did their navigation.

The open bridge was an exposed and unenviable location for officers and seamen in inclement weather, as was the winch operator's station atop the hydrographic chartroom on the foredeck adjoining the bridge. In rough conditions, it was common to see those men with towels wrapped around their necks in an effort to try to stay as dry as possible. Sailors and scientists were exposed to those conditions a

lot during the frequent bouts of cold, wet, windy weather on the geological cruises that usually took place in the late March to May period.

As a naval vessel, CSS *Kapuskasing* was built along relatively slim lines with, in the words of one of her captains, an ability to roll on wet grass. As a consequence, the ship often was heeled over and curtains in cabin doorways often hung out into the corridor at a steep angle. Staff accommodations were located in the relatively comfortable low end of the stern. One could form a pretty fair idea of prevailing sea conditions and how favourable they were for seismic work without leaving one's cabin by simply observing how far the porthole in your cabin was going under water. The lively ship motion in rough seas was considerably more pronounced in the forward part of the vessel where some of the crew were accommodated. The officer's wardroom was a rather cozy place, containing a fireplace (electric), a long dining table running athwartship with vertical posts strategically placed at either end for holding on in rough weather, and some easy chairs.

Rough sea conditions were encountered fairly frequently on the Scotian Shelf during the Spring period and CSS *Kapuskasing* was often called upon to assist a fishing vessels in difficulty or to bring aboard injured crew members from these vessels..

Jigging for cod while stationary at the occasional shallow stations, an activity permitted in those days,

provided for some lighter moments for fishermen amongst the crew and staff. On one such occasion, a fisherman on the port side of the vessel became engaged in an intense struggle with a large "fish". Expectations of a major fish catch were dashed when the line parted. The nature of the "fish" was discovered when the lure was found firmly attached to the vanVeen sampler recently deployed from the starboard side of the ship.

As with all our ships, the capability and friendliness of the ship's crew to a large extent make the vessel what it is. So it was on CSS *Kapuskasing*. ♦

**OBITUARIES**

We extend our sincere sympathies to the family and friends of former colleagues who have recently passed away.

**Maisie Jane Crowther** died on December 7, 2001, at the age of 59. Maisie was employed with the Eastern Petroleum Subdivision of the Atlantic Geoscience Centre in the 1970s.

**Captain Lewis Dennis Quick** died on October 30, 2001, at the age of 89. He served as a Lieutenant Commander in the Canadian Navy during World War II and had a career as a hydrographer with the Canadian Hydrographic Service retiring in 1971, ♦

**MEMBERSHIP REPORT –**

**January 10, 2002**

*By Betty Anderson*

Current membership stands at 151: six members have not renewed. Bob O’Boyle became our tenth life member on December 24, 2001.

Total fees collected, 1998 to 2002 (including donations and US/ UK currency exchanges): \$2,748.90

Total fees prorated, 2003 to 2022: \$2,170.00

Total: \$4,918.90

*Erratum:*

The following paragraph appeared in garbled form in the October 2001 issue (No. 13, page 6) of the newsletter.

“We welcome the following: Richard Addison, Tel. 250-537-1538, Ross Douglas, Tel. 613-825-4695, and Willem van der Linden, Utrecht University, The Netherlands, Tel. 31-30-535137. Please add them to the current mailing list circulated with the July issue of the newsletter. Also, amend Brian Nicholl’s phone number on that list to 780-426-3278. (Sorry, Brian!)” ♦

**FINANCIAL REPORT—January 10, 2002**

*By Betty Anderson*

OPERATING FUND	\$	FOUNDATION FUND	\$
Membership Fees:	4,918.90	Expenditures:	5,070.41
Socials:	558.36	Cash in Bank:	<u>55.84</u>
Bank Interest:	<u>123.05</u>	Total:	<u>5,126.25</u>
Total Income:	5,600.31		
Less Expenses:	<u>1,039.34</u>		
	4,561.07		
Five GICs/ Savings Accounts:	<u>4,289.09</u>		
Cash in Bank	<u>271.98</u>		



## CALL FOR NOMINATIONS FOR J.P. TULLY MEDAL

The Canadian Meteorological and Oceanographic Society (CMOS) is seeking nominations for the J.P. Tully Medal in Oceanography which recognizes a person whose scientific contributions have had a significant impact on Canadian oceanography.

In his capacity as Executive Director of CMOS and as an alumnus of BIO, Dr. Neil Campbell has made a special appeal for nominations this year. For the past few years, there have been no nominations for this award and Neil is certain that there are many potential recipients within the Atlantic Provinces. He asks that all those involved in Canadian oceanography on the east coast seriously consider making a nomination.

The nomination deadline is February 15, 2002. For more information or to submit a nomination, contact: Mr Mike Leduc (Secretary), CMOS Prizes and Awards Committee, Meteorological Service of Canada, 4905 Dufferin Street, Downsview, ON M3H 5T4, E-mail: [mike.leduc@ec.gc.ca](mailto:mike.leduc@ec.gc.ca). ♦

Happy New Year to all our readers from the group of BIO alumni in the photo below. They have been getting together each year since the eighties. In this 2001 photo, 15 of the 17 members are present.

## CALL FOR NOMINATIONS TO CFCAS BOARD OF TRUSTEES

The Canadian Foundation for Climate and Atmospheric Studies (CFCAS) was established to support Canadian non-government researchers in climate and atmospheric research. It is run by a 12-member Board of Trustees chosen from across Canada and appointed by the Canadian Meteorological and Oceanographic Society (CMOS). Trustees serve two years and four are replaced annually. This year, Dr. Robert Fournier, Vice President of Dalhousie University, is stepping down as a trustee representing the Atlantic Provinces.

Dr. Neil Campbell, Executive Director, CMOS, is seeking nominations for the four trustees to be appointed this year. The ideal nominee is an influential person in their field who can play a leading role on the Board of Trustees to broaden the scope of climate studies and impacts that CFCAS supports. Your nominee should not be a federal government staff member because nominations of those individuals is the prerogative of Environment Canada.

Very little in the way of supporting documentation is required to nominate a proposed trustee to the CFCAS Board. This work will be undertaken by the CFCAS Nominating Committee. For further information or to submit a nomination, please contact Dr. Neil Campbell at 1339 Dowler Avenue, Ottawa, Ontario K1H 7R8, Telephone: (613) 731-4512, E-mail: [cmos@meds-sdmm.dfo-mpo.gc.ca](mailto:cmos@meds-sdmm.dfo-mpo.gc.ca) (office) or [neiljc@netrover.com](mailto:neiljc@netrover.com) (home). ♦



In the dim and distant past  
When life's tempo wasn't so fast,  
Grandma used to rock and knit,  
Crochet, bake and baby sit.  
When the kids were in a jam,  
They could always call on Gram.  
But today she's in the gym,  
Exercising to keep slim.

**TO ALL GRANDMAS  
AND FUTURE  
GRANDMAS**



Travelling off to some far-off place,  
Seeing the world at a furious pace.  
She's checking the web, surfing the  
net,  
Sending some e-mail or placing a  
bet.  
Nothing seems to stop or block her-  
Now that Grandma's off her rocker.

**ABOUT THE ASSOCIATION**

The Bedford Institute of Oceanography Oceans Association was established in 1998 to foster the continued fellowship of its members; to help preserve, in cooperation with the Institute's managers and staff, BIO's history and spirit; and to support efforts to increase public understanding of the oceans and ocean science. Membership is open to all those who share our objectives. Most current members are present or past employees of BIO or of the federal departments of Environment, Fisheries and Oceans, and Natural Resources (or their predecessors) located in the Halifax Regional Municipality. Membership is \$5.00 per annum, \$25.00 for a 5 year membership, or \$100.00 for a lifetime membership. Payment for membership renewals should be sent to: Ms. Betty Anderson, Treasurer, 79 Flamingo Drive, Halifax, Nova Scotia B3M 1T2. For further information or to obtain a membership application form, contact any of the current executive members listed below.

<u>Dale Buckley, President</u>	434-5734 (H) 426-7732 (O) <a href="mailto:dbuckley@ns.sympatico.ca">dbuckley@ns.sympatico.ca</a>
<u>Ed Verge, Vice President</u>	434-4987 <a href="mailto:everge@sprint.ca">everge@sprint.ca</a>
<u>David Nettleship, Vice President</u>	826-2360 <a href="mailto:dnnlundy@navnet.net">dnnlundy@navnet.net</a>
<u>Clive Mason, Secretary</u>	469-2085 <a href="mailto:ab337@chebucto.ns.ca">ab337@chebucto.ns.ca</a>
<u>Gordon Bowdridge, Vice Secretary</u>	865-7530 <a href="mailto:g.bowdridge@ns.sympatico.ca">g.bowdridge@ns.sympatico.ca</a>
<u>Betty Anderson, Treasurer</u>	443-2572 <a href="mailto:bettyvanderson@hotmail.com">bettyvanderson@hotmail.com</a>
<u>Bob Reiniger, Past President and Vice Treasurer</u>	477-9833 <a href="mailto:at665@chebucto.ns.ca">at665@chebucto.ns.ca</a>
<u>Michael Latrémouille, Newsletter Editor</u>	434-4036 <a href="mailto:latremouille@accesswave.ca">latremouille@accesswave.ca</a>
[ Our newsletter is published quarterly in January, April, July, and October. Feel free to submit contributions via e-mail or by regular mail to me at 48 Swanton Drive, Dartmouth., N.S. B2W 2C5 or to Don Locke.]	
<u>Don Locke, Vice Editor, Newsletter</u>	835-5209 <a href="mailto:don-sharon.locke@ns.sympatico.ca">don-sharon.locke@ns.sympatico.ca</a>
<u>Ken Williams, Chair, Social Activities</u>	475-1532 <a href="mailto:minken@hfx.eastlink.ca">minken@hfx.eastlink.ca</a>
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