

# BIO-OCEANS ASSOCIATION NEWSLETTER

Issue 23, April 2004

On the web at: <http://www.bedfordbasin.ca/>

## Inside this Issue:

About the Association	2
President's Note: "Moments of Truth and Reflection"	3
What's Going On: 1 April – 30 June 2004	5
From the Archives... 35 years ago	7
Noteworthy Reads: Book Reviews in Brief	8
William Maxwell Cameron, C.M., Ph.D., Honoured	11
Brief Obituary Notices	11
Financial Report	12
Membership Report	12
A Sweet Experience	13
Atlantic Geoscience Society Honours Alan Grant	13
Dr. David L. McKeown: Recipient of the 2004 Beluga Award	14

## Plan to attend the BIO Oceans Association 2004 ANNUAL GENERAL MEETING

### "ACCOMPLISHMENTS & CELEBRATION"

Wednesday, 19 May 2004, 0930-1200 h, Main Auditorium, BIO

#### PROPOSED AGENDA:

A. Social (0930-1000 h) – tea, coffee, juices, finger foods and good conversation

B. The Year 2003-04 in Review (1000-1100 h):

1. Call to Order, Welcome to Members, Roll Call of Executive
2. Approval of the Agenda
3. Adoption of the Minutes of the previous AGM: 22 May 2003
4. Business Arising from the Minutes
5. President's Annual Report
6. Treasurer's Annual Financial Report
7. Report of the Elections Committee
8. New Business:
  - (a) Equipment/Artifacts Archives – the EAAP Initiative (Charles Schafer)
  - (b) Library Archives – BIO policy and OA 'MOU' agreement (Bosko Loncarevic)
  - (c) BIO-OA Newsletter – publication & the future (Michael Latrémouille)
  - (d) BIO-OA Website – continued development and growth (Bosko Loncarevic)
  - (e) Social Activities – a year of fun & educational events (Jackie Dale)
9. Adjournment

C. The BIO-OA 'Beluga Award 2004' (1105-1200 h)

1. Welcome (David Nettleship)
2. Introduction (Dale Buckley)
3. The Award 2004 Presentation (Dale Buckley)
4. Social and treats

Note: To place additional topics or work items on the business part (item B) of the agenda, please contact President David Nettleship (phone: 826-2360; e-mail: [dnnlundy@navnet.net](mailto:dnnlundy@navnet.net)). Suggestions are most welcome.

*An Easter Bunny Quiz*

Q. What does it mean when the Easter Bunny arrives one day late with melted candy? A. He probably had a bad hare day.

Q. What do you get when you pour boiling hot water down a rabbit hole? A. Hot cross bunnies.

Q. What do you call thirty rabbits in a row all marching backwards?  
A. A receding hareline.

Q. What's the difference between a new-age rabbit preparing for the future and one getting ready for dinner? A. The first rabbit will visualize world peace. The second rabbit will visualize whirled peas.

*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 year, \$25.00 per half decade, 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.

*Officers and Directors:*

PRESIDENT	Dr. David Nettleship	826-2360	dnnlundy@navnet.net
VICE-PRESIDENTS	Dr. Jim Elliott	434-6072(h) 426-4163(o)	eljgj@istar.ca
PAST PRESIDENT	Mr. Donald Peer	857-9268	d.peer@ns.sympatico.ca
SECRETARY	Mr. Dale Buckley	434-5734(h)	dbuckley@ns.sympatico.ca
	Dr. Clive Mason	469-2085(h) 426-6927(o)	masonc@mar.dfo-mpo.gc.ca
VICE-SECRETARY	Dr. Bob Cook	868-2948	bobherther@hfx.eastlink.ca
TREASURER	Ms. Betty Anderson	443-2572	bettyvanderson@hotmail.com
VICE-TREASURER	Mr. Bob Reiniger	477-9833	r.reiniger@hfx.eastlink.ca
DIRECTORS AT LARGE:	Ms. Jackie Dale	466-2584	jdale902@aol.com
	Mr. Sherm Glazebrook	434-5823	jacqieg@sprint.ca
	Dr. Charles Schafer	861-3145	charlestschafer@hotmail.com
	Dr. Shiri Srivastava	434-6437	shirisrivastava@hfx.eastlink.ca

*Communications: Newsletter and Web Site*

NEWSLETTER EDITOR	Mr. Michael Latrémouille	434-4036	latremouille@accesswave.ca
NEWSLETTER VICE-EDITOR	Ms. Lisa O'Neill	469-0585	loneill@hfx.eastlink.ca;
WEB MASTER	Dr. Bosko Loncarevic	835-9606	info@cd-books.com

*Committees/ Working Groups: Chairs*

LIBRARY ARCHIVES	Dr. Bosko Loncarevic	} See above
PHOTO ARCHIVES	Mr. Michael Latrémouille	
EQUIPMENT ARCHIVES	Dr. Charles Schafer	
SOCIAL ACTIVITIES	Ms. Jackie Dale	
BELUGA AWARD	Mr. Dale Buckley	

## PRESIDENT'S NOTE:

*"Moments of Truth and Reflection"**By David Nettleship*

When you're off on a two-year jaunt, as I have been since May 2002, it's easy to think that all is possible given the time frame in which to work. But since the completion of phase one of both our Equipment/Artifacts Archives Project (EAAP) initiative and Library Archives agreement early last month (March 2004), the realization has hit home that my time as president is drawing to a close. This is one of the 'terrifying' moments of truth: Where has the time gone? Have we accomplished a solid proportion of those things we set out to do a short 23 months ago? Are we on our way to becoming still more significant as a vehicle for attaining those lofty goals set out in our mission statement than we were at the start? What things remain undone from the initial list of work tasks we gave ourselves, and how may they be best delivered on to the next generation of OA officers? Obviously these matters were settled at the outset, and we knew intellectually that all would be well, but it is most gratifying to sit at my desk and to realize that all is well with an easy movement of unfinished business from one executive body to the next. The founders of our Association showed great wisdom in the structure they drew up for our constitution and working by-laws.

Things do look positive. We have come a long way towards our goal of identifying work projects with goals both important to the Association's mandate and attainable. The magnificent effort made during the past two years by members and non-members alike have been impressive. The special focus given to archives – equipment/artifacts, library, and photography – and to communication networks – OA newsletter and website – and the results attained display a special emphasis by our Association towards real contributions to the BIO community, past and present, and to ocean science in Canada. This focus on the identification and preservation of archival materials and the development of stewardship agreements to ensure the longevity of the historic

record of the activities and accomplishments of BIO as a research institution go a long way to show what the Oceans Association can contribute. Safeguarding the historic record not only provides an understanding of what BIO represents and where it came from, but also allows the successful use of knowledge generated over the longer term to help solve current marine-related questions and problems. The need to communicate the existence and availability of archival materials is also essential, as is the establishment of a permanent vehicle for the dispersion and easy access to important information. We have already made giant strides along these pathways that can only assure our Association of a strong and useful future.

Suddenly, we are in the spotlight and it is a comforting sight. Much has been attained over a short time frame, a performance that shores up the organization's credibility as a contributing member and moving force within the BIO community. Let's take a moment to reflect on some of the major accomplishments achieved since May 2002:

- Identification and assessment of major work objectives
- Establishment of working committees with realistic work goals
- Continued development of the BIO-OA Newsletter
- Establishment and construction of the BIO-OA Website
- Information transfer-exchange program: the BIO-OA seminar series
- Development of an official BIO Archives Policy (with BIO archivist librarian)
- Construction, submission and acceptance of BIO-OA 'EAAP' Initiative
- Preparation of an official BIO-OA Library Archives 'MOU' (with BIO Library Services)
- Attainment of full BIO Library privileges to all BIO-OA members
- Development of an enhanced BIO-OA Awards Program
- Development of an active and diverse Social Activities Program
- Continued growth of the BIO-OA membership

Upon reflection, we can indeed congratulate ourselves on our recent gains. The significance of those achievements become even greater when it is realized how small our working group of volunteers actually is, and the multilateral nature of many of the projects undertaken, i.e., each often involving many partners. Obviously, we can feel proud of our collective accomplishments, but we cannot and should not rest on our laurels. We must continue to move forward. Indeed much more needs to be done. Some of the immediate challenges are to plan and execute phase two of the 'EAAP' initiative; develop protocols, time charts and coordinated actions for the acquisition of archival records for the BIO Archives; further development of the photography archives project that still requires considerable attention and direction; identification of BIO space allocation requirements; and an integrated approach of program developments to ensure that the original mission of the BIO-Oceans Association is realized. The list goes on.

The work challenge ahead is therefore enormous. It will require the determination and commitment of an active and involved OA membership to make it successful, not only in the months ahead, but also in the years to come. The need for an active social activities committee to arrange a full and varied program of events for each year is very high, as is participation on the OA newsletter by offering the editor articles for publication and/or suggestions of new topics to be included within each issue. There are also other ways which OA members can help the organization grow and prosper. For a start, encourage your BIO associated friends, colleagues, and associates to join BIO-OA. Doubtless each one of us knows at least one or two people that qualify as potential recruits, people that will receive benefits from an OA membership as well as contributing. Get them to join, and have them solicit new members from their associates as well. Second, get more involved by attending Annual General Meetings (including AGM 2004 on 19 May 2004) and offering ideas of what you might like to see presented at meetings and the goals to be targeted for the year ahead. Consider joining the executive or one of the committees and working groups that you find appealing. And third, become a sustaining member and commit more than the annual mem-

ber's fee in support of OA initiatives and programs. BIO-OA membership offers excellent value for the cost, value that will only increase in the future.

Let me close by saying it has been my privilege to serve you, along with my fellow members of council, for the past three years, first as Vice-President (2001-02) and then President (2002-04). My tasks in both offices were made much easier by an enthusiastic and hard-working executive body and suite of committee/working group members, always ready to help and undertake work assignments as required. Although indebted to all members of council during those years, I am particularly grateful to Bob Cook, Jim Elliott, Bosko Loncarevic, Michael Latremouille, Don Peer and Charles Schafer for their strong support throughout my presidency. I look forward to further challenges presented in my new role as Past President, one that should allow a more statesmanlike manner of conduct to prevail in contrast to what was sometimes necessary during the earlier functions. As I pass the reins of responsibility on to Don Peer as incoming President, I feel satisfied and elated by knowing that the Oceans Association is in excellent hands with future prospects bright and promising. BIO-OA's upcoming fiscal year (2004-05) will be one of celebration and continued prosperity. There will be other "moments of truth and reflection" in the future, and I very much look forward to sharing them with you.

---

**A little levity from *The Challenge* column of *The Globe and Mail* (April 10, 2004, issue, p. D18)**

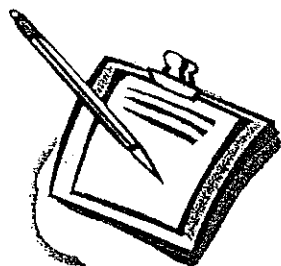
A Canadian walks into a saloon where the meanest guys hang out. "Get outta here," the barman yells. "I know you're kind!"

A gerund saunters into a bar, and the barkeep says, "What are you, drinking."

Philosopher René Descartes goes into a bar. "Would you care for a beer," asks the bartender. "I think not," replies Descartes ...and he disappears.

A seafarer enters a bar on a dark and stormy night. "Let me guess," the bartender offers, "any old port."

---



## WHAT'S GOING ON:

1 APRIL —  
30 JUNE 2004

Here are some current and upcoming events in the Halifax Regional Municipality that may interest members. Send in event

listings to the OA Newsletter Editor, Michael Latrémouille, for inclusion in future issues of the newsletter (voice: 434-4036; internet: latremouille@accesswave.ca).

**1 April to 31 May:** Maritime Museum of the Atlantic – 'Charting the Waters: Hydrography in Atlantic Canada' (part of the celebration of the 90<sup>th</sup> anniversary of CSS *Acadia* – a must see exhibit).

**1 April to 2 May:** Dalhousie Art Gallery – 'Six Centuries of Printmaking' (an exciting, almost overwhelming journey of the history of printmaking through time and place, from Europe to Canada with works of Durer to Delacroix, Lismer to Riopelle, and a swooping introduction to contemporary art developments – a show rich in story and image).

**1-30 April:** Maritime Museum of the Atlantic – 'Restoring a Stevens Class Sloop: *Evening Star*' and 'New Life for RMS *Franconia*' (boat building/ restoration demonstrations of S/V *Evening Star*, a 29-ft Bermudan-rigged sailboat, in the large boat shed on the museum's wharf and the 13-ft model of RMS *Franconia* on second floor – phone museum for specific times: 424-7490).

**1 April to 30 June:** Maritime Museum of the Atlantic – 'The Sloop, *Windekilde*' (this 24-ft sloop and replica of *Marila*, one of the oldest vessels in the museum's collection, is on display at the south boat shed; is to be launched on Canada Day, 1 July 2004).

**3-4 April:** Museum of Natural History – 'Annual Orchid Show and Sale' (Sat., 9:30 am to 5:00 pm; Sun., 1:00 to 5:00 pm – display of beautiful and exotic orchids presented by the Orchid Society of NS).

**5 April:** Museum of Natural History – 'Diving with Greenland Sharks: Rare Underwater Observations' (7:30 pm – illustrated talk by Dr. Chris Harvey-Clark, Dalhousie University, on the huge, slow-moving, and deep-water loving Greenland Shark, found recently in the Gulf of St.

Lawrence, and its role in marine systems as predator and scavenger – presentation co-sponsored by the NS Institute of Science).

**6 April:** Maritime Museum of the Atlantic – 'SS *Olympic* and Halifax' (7:30 pm – illustrated talk by Gary Shutlak, NS Archives, on the little known transport ship called 'The Old Reliable' that ferried over 200,000 Canadian troops across the Atlantic during WWI and was the largest passenger liner to visit Halifax to the 1930s).

**7 April:** Museum of Natural History – 'Gardens for Science and Pleasure' (7:30 pm – presentation by botanist Alex Wilson on the history and importance of gardens created to further the science and study of horticulture that have become show places for all ranging from Martha's Vineyard to the great Botanical Gardens at Kew, London, UK – an expose of the diversity of the gardener's world).

**9 April:** Maritime Museum of the Atlantic – 'The Glacial Wonders of an Alaskan Cruise' (7:30 pm – illustrated talk by Kerry Gillis about cruising adventures up the Inside Passage and the Gulf of Alaska – blue-green ice, bergy bits and ice pans along with marine birds and mammals).

**10 April to 4 July:** Art Gallery of Nova Scotia – 'Cats: An Exhibition' (drawings/ artwork of cats: contact 424-7542 for additional information).

**13 April:** Maritime Museum of the Atlantic – 'The School Boats of Newfoundland' (7:30 pm – illustrated talk by Tom Rissesco, a former Inspector of Schools, about his travels in the boat *Scholia* that took him to some 365 island outport communities, spread over 9,000 km<sup>2</sup>, in eastern Newfoundland between August 1960 and June 1964 – stories and tales of the time).

**15 April:** St. Margaret Sailing Club (French Village, St. Margaret's Bay) – 'The Voyage of the Seven Girls: A Year in the Life of a Deep Sea Longliner' (8:00 pm – illustrated lecture on offshore bluefin tuna fishing by international film producer John Brett). [Contact: David Nettleship – phone: 826-2360 or e-mail: dnnlundy@navnet.net]

**20 April:** Maritime Museum of the Atlantic – 'Tall Ships Challenge 2004' (7:30 pm – illustrated talk by Mike Patrick, Project Manager of Tall Ships 2004, about the upcoming spectacular arrival of the fleet on 29 July 2004 -- see also, 23 April).

**21 April:** Museum of Natural History – ‘Beneath the Glacial Ice: A Time Capsule from 75,000 Years Ago’ (7:30 pm – presentation by Robert Grantham, GEO Centre, St. John’s, NF, taking us back to a time before the last glacial period to show us incredible fossil finds discovered in 1992 at Milford, NS, including mastodons, birds, turtles, frogs and fish -- presentation co-sponsored by the Atlantic Geoscience Centre).

**22 April to 24 May:** Museum of Natural History – ‘Spirit of Place: MacKinnon’s Brook, Nova Scotia’ (an exhibition of photographs by Joanne Chilton that reveal a sensitive, spiritual connection to nature by the artist; a collection that focuses on the unique physical beauty of MacKinnon’s Brook – sponsored by the NS Nature Trust).

**23 April:** Maritime Museum of the Atlantic – ‘Mastering the Tall Ships of 2000’ (7:30 pm – illustrated talk by Harbour Master Randy Sherman about the Tall Ships fleet of 2000 and the task involved in coordinating ship traffic; see also 20 April).

**24 April:** Museum of Natural History – ‘The Fossil Cliffs of Joggins: Coal Age Galapagos’ (7:30 pm – presentation by Dr. John Calder on the history and importance of the fossil cliffs of Joggins, their significance to the works of Lyell and Darwin, and why the site is under consideration as a UNESCO World Heritage Site).

**24-25 April:** Maritime Museum of the Atlantic – ‘20<sup>th</sup> Annual Modelmakers’ Showcase’ (Sat., 9:30 am to 5:00 pm; Sun., 1:00 to 5:00 pm – a special display of 300 ship and boat models made by more than 80 model-makers from Atlantic Canada and New England, with many of the builders present to discuss their works).

**26 April:** BIO-OA Executive Meeting (10:00 am, 5<sup>th</sup> Floor AGC Boardroom, BIO – contact: David Nettleship, phone 826-2360 or e-mail [dnnlundy@navnet.net](mailto:dnnlundy@navnet.net)).

**27 April:** Maritime Museum of the Atlantic – ‘European Crossing’ (7:30 pm – illustrated talk by Kerry Gillis of Cruise Holidays, on the final trans-Atlantic crossing of the famous cruise ship Queen Elizabeth 2 to her retirement location in the Mediterranean, and the rich and ancient wonders of the region).

**28 April:** Maritime Museum of the Atlantic – ‘Happy Birthday NSLPS!: Annual General Meeting’ (7:00 pm – AGM and 10<sup>th</sup> birthday celebration of the NS Lighthouse Preservation Society featuring an illustrated overview by founding member Chris Mills of the accomplishments and activities of the past 10 years).

**28 April:** Museum of Natural History – ‘United Plant Savers: Medicinal Plants at Risk’ (7:30 pm – an illustrated talk about the loss of wild plants in North America owing to urbanization, logging practices, over-harvesting, and exportation, and the associated loss of medicinal plants important to human health – UPS ‘wildcrafting’ approaches are outlined to help protect and conserve native habitats).

**1-31 May:** Maritime Museum of the Atlantic – ‘Titanic 3D’ (return of a special film production by Dr. Joe MacInnes of Undersea Research and filmed by National Geographic photographer Emery Kristoff – this 15-min film, made from 50 hours of filming, shows Titanic from every angle and position, and shows us the grand ship as she rests on the ocean floor, 4 kilometres beneath the waves – a must see experience).

**1-2 May:** Museum of Natural History – ‘African Violet Show & Sale’ (Sat. 10:00 am – 5:00 pm; Sun. 1 to 4 pm – a special display of flowering plants by members of the Halifax African Violet Society with all sorts of tips to offer about plant care).

**7 May:** St. Margaret’s Centre (Arena) – SMSC special seminar ‘The Spirit of Canada Story’ (08:00 pm – Master racer-sailor Derek Hatfield presents an illustrated talk about his success and 3<sup>rd</sup> place finish in the ‘Around Alone’ single-handed ocean yacht race of 2002-03, and the 2006 ocean challenge). [Contact: David Nettleship -- phone: 826-2360 or e-mail: [dnnlundy@navnet.net](mailto:dnnlundy@navnet.net)]

**19 May:** BIO Auditorium – ‘BIO-OA Annual General Meeting: Accomplishments & Celebration’ (Wed., 9:30-12:00 am – morning social, the year 2003-04 in review, and the Beluga Award 2004 presentation: something for everyone!).

**27 May:** BIO, Needler Boardroom, 4<sup>th</sup> Floor – ‘BIO-OA Spring Celebration & Seminar’ (7:30 pm -- details to be announced). [Contact: Don Peer – phone: 857-9268 or e-mail: [d.peer@ns.sympatico.ca](mailto:d.peer@ns.sympatico.ca)] Newsletter 23 (April 2004)]

## From the Archives ... 35 years ago

*[These Highlights are excerpted from the BI World Newsletter, published at the Institute between 1967 and 1973. Complete versions are posted on our web site.]*

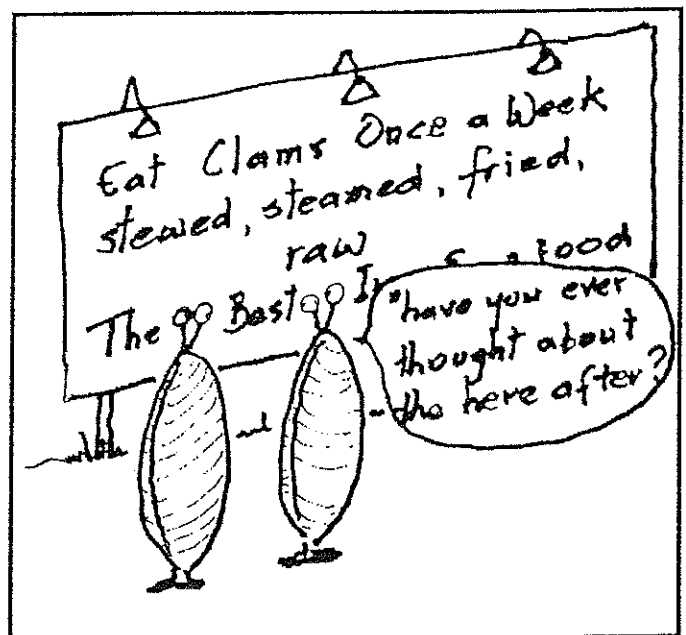
{Jan.31, 1969, Vol. 3, No. 1} Dr. Ford announced the appointment of Dr. Bosko D. Loncarevic to the new position of Assistant Director ... Seminars by Drs. Dickie, McMullen and Vilks ... BAFFIN sailed for Hydrographic Training Cruise in the Windward Islands ... Some ship operational statistics reported: 13 ships were used on BIO programs (6, DMTS, 3 Charter, 2 Icebreakers, SACKVILLE and Prince) spending a total of 1,528 days away from the base ... List of published Internal, Computer and Data Notes includes 34 titles ... F.K. Keyte is on temporary posting to IOC, Paris ... to assist in preparation of plans for IGOS ... DAWSON sailed on Jan 31 to recover "a rather fully instrumented array of four moorings" ... On recovery it was found that two of the moorings had parted just above their anchors resulting "in a heavy loss of equipment" ... The Applied Oceanography Section just received an H-P Model 9100A Programmable calculator. ... Dr. Forrester led an expedition into the Gulf on CSS DAWSON. "He wanted to observe water conditions in the Gulf in the winter time; unfortunately, the weather was warm!" ... 13 Coast Guard College cadets visited the Institute and had a dinner aboard HUDSON ... Dr. Smith will be leaving on Feb 5 for three weeks in the Gulf of St. Lawrence drifting with ice flows ("if there's any ice!") ... Marine Geophysics described a joint project with the Imperial College, London to measure the earth's magnetic and electric fields at the bottom of the ocean. "Unfortunately the magnetic compasses were found flooded for some reason and the paper in the magnetometer recorder got jammed." ... Dr. Loncarevic will be spending the next five months on study leave at Scripps "investigating the "New Tectonics" or "Global Plate Tectonics" recently put forward by Jason Morgan and Xavier Le Pichon." ... MARINE GEOLOGY section organized an Offshore Information Seminar with 100 attending. ... Fire Drill was held on Jan. 24 - "the buildings were emptied in three minutes." ... METROLOGY reported on HUDSON Cruise 238: Roger Cassivi won a "suitable prize" for inventing the name "Batfish" for Jean-Guy Dessureault's diving thermography. ... STAFF ASSOCIATION introduced an annual membership fee of \$1.00 "on a trial basis." ... B.I. Angels hockey team is entered in the Industrial Hockey league --- they lost the last four games.

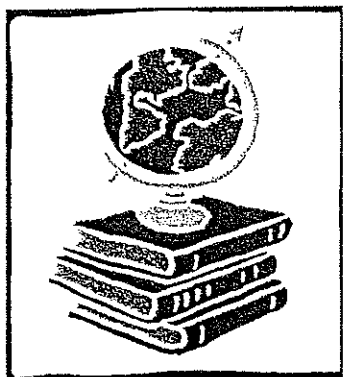
{Feb.28, 1969, Vol. 3, No. 2} Seminars by S.B.

MacPhee, D.L. Barrett, B.S. Muir and S.P. Srivastava ... BAFFIN (on Hydrographic training cruise in the Caribbean) took on board at St. Vincent two 1600 lb. 18<sup>th</sup> century cannons for delivery via Halifax to Huronia Historical Development Council in Ontario. ... Dr. D.I. Ross attending the Oceanology International Conference in Brighton, England, and presenting a paper on "Experience with a shipboard PDP-8 Computer". ... HYDROGAPHY announce the field programme for 1969 ... Dave Wells attended a conference of the Can. Inst. of Surveying and presented a paper on "Experience with a Satellite Navigation System" "which created a considerable interest." ... ICNAF reported on travels of the Executive Secretary ... A letter of Appreciation from the Master, USNS LYNCH for "the assistance of BAFFIN's Scuba drivers to perform a routine inspection of our propeller".

{Mar.31, 1969, Vol. 3, No. 3} The laboratory Wing Extension is now completely occupied ... Centrex system for Government telephones in Halifax-Dartmouth area is scheduled to go into service in August ... BAFFIN expected to return from the Caribbean on April 2. ... DAWSON on a 7-day physical oceanography cruise in the Gulf. Two strings of current meters were successfully recovered. The staff were once again pleased by the atmosphere, cooperation, and good food on board DAWSON. ... Mr. P.C. Beamish has arrived (with a canine companion "Major") from UBC to join MEL. ... Dr. R.L.G. Gilbert "will start training in French around the end of April, and will probably be quite fluent by the time he returns."

FROM THE PEN OF JOHN VANDERMEULEN





## NOTEWORTHY READS:

BOOK REVIEWS  
IN BRIEF

By David N. Nettleship  
Book Review Editor

The *Noteworthy Reads* section is a cooperative, volunteer effort by members of the BIO-OA to produce a representative list of recent noteworthy book publications related to the marine sciences and other subjects of general interest. The listing is not intended to be comprehensive or complete, but merely an attempt to highlight a number of 'good reads' that may be of interest to OA members and their associates. The review team's principal aim is to identify titles of new publications from a variety of disciplines including oceanography (physical, chemical, biological), geology, natural history, nautical engineering and design, etc. Most books listed are available at local bookstores and via HRM libraries; book prices are regular retail in Canadian funds; 20-30% discounts are normally available on line: e.g., amazon.ca or chapters.indigo.ca. Anyone interested in becoming a regular contributor to 'Noteworthy Reads' should contact David Nettleship (voice: 902-826-2360; internet: dnnlundy@navnet.net).

**Abulafia, David (ed.). 2003. *The Mediterranean in History*. Getty Trust Publications, Los Angeles, CA. 320 pp. Hardcover, \$55.00 (ISBN 0892367253).** – Here is a gripping account of how the Mediterranean changed the course of civilizations. Comprehensive, authoritative, and spectacularly illustrated with 300 maps and images of artifacts (150 in colour), here is historical writing at its best. Prepared by eight distinguished historians, and carefully edited by David Abulafia, Professor of Mediterranean History at Cambridge University, each contributor addresses a different epoch spanning 3,000 years of achievement, artistry and human drama. Topics examined include: the rise of the early sea-faring cultures of the Carthaginians, Greeks, and Etruscans, and subsequent rule by the Romans, who considered it *Mare Nostrum* (our sea); the perils and rewards of shipping in the only body of water linking Europe, Africa, and Asia; and the turmoil of the first millennium A.D. when the region split apart into Western Christendom, Byzantium, and Islam. This book will leave you with a new perspective on the birth of Western civilization, the rivalries of the great empires, and the bloody history shared by the world's three major religions. An outstanding survey of the fateful waters of the Mediterranean Sea!

**Bown, Stephen R. 2003. *Scurvy: How a Surgeon, a Mariner, and a Gentleman Solved the Greatest Medical History of the Age of Sail*. Thomas Allen Publishers, Toronto, ON. 254 pp. Hardcover, \$34.95 (ISBN 0887621309).** – Here is a book that takes us on an evocative journey back to the era of wooden ships and sails, when the disease of scurvy infiltrated every aspect of sea-faring life. Scurvy was the 'plague of the sea', taking the lives of more seamen than storms, shipwrecks, and war combined. This account details the dilemma posed to sailors and their sponsors, government and the shipping industry, and the incredible tale of how a medical solution was discovered, tested, and 'sold' to the British Admiralty by three men – surgeon James Lind, captain James Cook, and physician Gilbert Blane – respectively. Overall, this book is a rare mix of compelling history and classic adventure story, executed by a meticulous researcher and gripping storyteller!

**Carbyn, Ludwig N. 2003. *The Buffalo Wolf: Predators, Prey, and the Politics of Nature*. Smithsonian Books, Washington, DC. 248 pp. Hardcover, \$34.95 (ISBN 1588341534).** – An enlightening account by Lu Carbyn, research scientist emeritus with the Canadian Wildlife Service, of three decades of research on the predator-prey relationships between the wolves and buffalo of Wood Buffalo National Park. Detailed descriptions are given of both players in this 'ancient rhythm of life and death', and the factors responsible, along with superb accounts of other park fauna and the habitats they occupy. Emphasis is directed towards the recent controversy of the buffalo population in the park carrying diseases that may threaten domestic livestock. Many interest groups – cattle ranchers, agriculturists, politicians -- want to exterminate the Wood Buffalo herd and replace it with disease-free 'pure' stock from other parks. But Carbyn's research and analysis indicate that wolf predation, not just disease, has caused the recent decline in buffalo numbers, a drop that has leveled off and now rising following a drop in wolf numbers. A strong case is made for letting the ecosystem sort out its own problems and find a sustainable balance without human intervention, an approach that underlines the need for good science and the removal of unsubstantiated beliefs and ill-founded political agendas in decision making.

**Clifford, Barry with Paul Perry. 2003. *Return to Treasure Island and the Search for Captain Kidd*. HarperCollins Canada, Toronto, ON. 278 pp. Hardcover, \$38.95 (ISBN 0060185090).** – A first-person narrative that recounts Barry Clifford and his team's rediscovery in 2000 of Captain William Kidd's flagship 'Adventure Galley', which sank in 1698 in the waters of Ile Sainte-Marie, off the coast of Madagascar. Details of



Captain Kidd's own story is re-told, from his recruitment by England to intercept pirate ships to his transformation to piracy, culminating in his capture and hanging in 1701. Clifford's adventure of first finding the location of Kidd's shipwreck and then obtaining permission to execute a diving expedition from Madagascar's government, followed by the actual recovery of artifacts along with those from other wrecks found near Adventure Galley is exciting. Written with considerable style and verve, a true tale of the triumph of modern underwater archaeology.

**Cook, Michael. 2003. *A Brief History of the Human Race*. W.W. Norton, New York, NY. 384 pp. Hardcover, \$48.00 (ISBN 0393052311).** – Author Cook takes us on a witty and intelligent 'hop-scotch' through humanity's past. Enjoy a broad and insightful survey of human history, one that leaps across millennia and continents to focus on the achievements of specific cultures, and to ask whether history could have unfolded differently. Cook argues that unusually warm temperatures over the last 10,000 years, combined with the development of farming, opened up a window of opportunity for the making of history. Sophisticated social structures evolved, including the development of kingship, innovations in tool use, and alphabets, all of which sparked the rise of ancient societies from ancient Egypt to the Maya heartland. Subsequent examinations of the smaller continents and the Eurasian landmass leads to profiles of Islamic civilization, the expansion of European culture around the globe, and the modern world. The journey covers an impressive amount of ground and places the recorded history of humanity in a fresh perspective – an account that both intrigues and sparks the imagination.

**Cutler, Alan. 2003. *The Seashell on the Mountain Top: A Story of Science, Sainthood, and the Humble Genius who Discovered a New History of the Earth*. Dutton Studio, New York, NY. 228 pp. Hardcover, \$36.00 (ISBN 0525947086).** – This gripping narrative tells the story of Nicholas Steno (1638-1686), a Danish anatomist and (according to Cutler) founder of geology, whose discovery of the principle of superposition and other basic rules of geology paved the road to our modern conception of the true age of the Earth. In telling this story, Cutler re-creates a fascinating 17<sup>th</sup> century world of political and religious upheaval and the progress achieved by curious scientists such as Steno. The mystery of fossils and the question of how seashells could be found in mountain rocks far inland from the sea intrigued Steno. After years of study, he hypothesized that layers of earth formed sediments in a sequence related to time, and could be used to tell the age the earth. This biography is a page-turning thriller of scientific discovery, one

that reveals both its principal subject and the working environment of the times.

**Fagan, Brian. 2004. *The Long Summer: How Climate Changed Civilization*. Basic Books, New York, NY. 284 pp. Hardcover, \$40.00 (ISBN 0465022812).** – This work is of fundamental importance to all of us. It documents how climate change has had a profound, abrupt, and often catastrophic impact on human societies in the past. In this masterful survey, author Fagan takes us from 18,000 BC to the present, revealing how climate has affected global civilization during the period of relatively warm weather known as the Holocene since the last Ice Age. He shows how oscillating global weather systems draw in human settlements during temperate periods and drives them away during frigid ones. Recent findings indicate that more mobile societies have historically been better prepared to deal with climate change than those in permanent settlements. Overall, an important look at the precarious dependence of human civilization on the climate -- a most fascinating and provocative read.

**Freeman, Michael. 2004. *The Complete Guide to Digital Photography*, 2<sup>nd</sup> ed. Lark Books, Sterling Publishing, New York, NY. 224 pp. Softcover, \$46.95 (ISBN 157990534X).** – Want to take the leap into digital photography? If so, this book is for you. It provides a solid introduction to digital photography and explains every major aspect of this new technology including: hardware, working digitally techniques, and details of 'On the road' photography for travellers. The text is supplemented by over 600 illustrations to show what can be done and how to do it. This is a no-nonsense, jargon-free instruction guide (however, with a 'jargon-busting' glossary to assist where necessary) that forms a complete sourcebook of information.

**Galgay, Frank and Michael McCarthy, eds. 2003. *A Sea of Mother's Tears: Sea Stories from Atlantic Canada*. Flanker Press, St. John's, NF (distributed by Nimbus Publishing, Halifax, NS). 190 pp. Softcover, \$16.95 (ISBN 1894463315).** – This book is a riveting glimpse of Newfoundland maritime history, with all the joys and sorrows that life by and on the sea can bring. The authors' selection of stories from the countless numbers told and retold over past centuries – tales of shipwrecks, of loss of life, of pirates and treasures, of lovers separated or united by the seas – provides an important collection of those from the 19<sup>th</sup> and early 20<sup>th</sup> centuries. Together, the stories display a rich oral tradition of story telling in Newfoundland and provide an insight into the character of the people that have made their living from the sea. A wonderful set of tales that teach, inform and entertain the reader about the bygone manner of mari-

time living.

**Halweil, Brian and Lisa Mastys, eds. 2004. State of the World 2004.** *Worldwatch Institute, Washington, DC and W.W. Norton, New York, NY. 245 pp. Softcover, \$25.50 (ISBN 0393325393).* – This volume is the latest annual report by the Worldwatch Institute on progress towards a sustainable society. Special focus is given to the 'consumer society' and all major facets of its domain and significance to the condition of the world – a year in review at the start of 2004. Principal topics reviewed include the state of consumption, making better energy choices, boosting water productivity, moving toward a less consumptive economy, and linking globalization, consumption, and governance. Overall, a wake-up call to the global community and the clear need to rethink the 'good life'.

**Kingdon, Jonathan. 2003. Lowly Origin: Where, When, and Why Our Ancestors First Stood Up.** *Princeton University Press, Princeton, NJ. 408 pp. Hardcover, \$49.00 (ISBN 0691050864).* – Jonathan Kingdon, senior research associate at the Institute of Biological Anthropology, Oxford University, focuses on bipedality as humanity's founding peculiarity and provides a highly original take on how it came about. Kingdon uses recent findings from ecology, biogeography, and paleontology to build a new account of how four-legged apes became two-legged hominids. Patterns of foraging, changes in habitat utilization and diet, and related ecological requirements triggered the necessary alteration in our ancestors' anatomy. All of this is neatly tied into an evolutionary scheme involving no less than 20 species of humans and hominids, only one of which led to modern *Homo sapiens*. Here is a comprehensive account of what it meant and means to walk on two feet!

**Maginley, Charles. 2003. The Canadian Coast Guard, 1962-2002.** *Vanwell Publishing, St. Catharines, ON. 232 pp. Hardcover, \$39.95 (ISBN 1551250756).* – A timely review of the development and original purpose of the Canadian Coast Guard (CCG), and where it has gone over the four decades since its establishment in 1962. Canada has, of course, used marine services to safeguard its waterways since colonial times. But the relatively new CCG already has a remarkable history. This well researched work provides a clear outline of how the Coast Guard has protected Canadian sovereignty, ensured maritime safety, and promoted our national nautical interests -- a most solid history in just a little over four decades. Let's hope this work gets placed into the hands of Canada's decision makers to show what can be accomplished given the necessary support and freedom to pursue established goals.

**Morris, Rod and Alison Balance. 2003. South Sea Islands: A Natural History.** *Firefly Books, New York, NY. 160 pp. Hardcover, \$35.00 (ISBN 1552976092).* – Looking for relief from a long, snowy and cold winter? Well, this book will take you on a journey to island paradises of exotic animals and plants. The islands of the South Pacific and Indian Oceans support some of the most diverse bio-communities on Earth. The authors celebrate the richness and beauty of life through an exciting and stimulating tour of 14 islands highlighting the local fauna and flora of each in words and 150 colour photographs including Fiji, Madagascar, French Polynesia, Hawaii, Galapagos, Sulawesi, New Guinea, Tasmania, New Zealand, Easter Island, and several more. The combined expose of both the plant and animal life of these islands, and the magnificent environments they occupy, will quickly erase all memories of the northern winter doldrums!

**Nichols, Peter. 2003. Evolution's Captain: The Dark Fate of the Man Who Sailed Charles Darwin Around the World.** *HarperCollins Canada, Toronto, ON. 352 pp. Hardcover, \$38.95 (ISBN 006008877X).* – This is another story of Robert Fitzroy, captain of the HMS *Beagle*, without whose skills Charles Darwin's landmark voyage would never have succeeded. Nichols' account, unlike that of Gibbin and Gibbin's 'Fitzroy' (reviewed in OA Newsletter 22:8) where applause was the order of the day for the captain's invention of the weather forecast, focuses on the conflict between Fitzroy's fanatical Christian beliefs and Darwin's observations and interpretations on the origin and evolution of species. Fitzroy's knowledge that he provided Darwin with a vehicle for his 'sacrilegious' ideas, and may have even contributed directly towards Darwin's theories, drove the captain to suicide in 1865. This work is a sensitive and insightful overview of the nature of the problem and the final outcome.

**Ruse, Michael. 2003. Darwin and Design: Does Evolution Have a Purpose?** *Harvard University Press, Cambridge, MA. 382 pp. Hardcover, \$49.42 (ISBN 067401023X).* – Here is a book that offers fascinating historical and philosophical perspectives on the rise and fall of the "Argument from Design" in the light of Darwinism. It surveys and summarizes beliefs from Plato's 'Designer God' who imposed purpose on nature, a view inherited by many others including Paley, Kant, Bergson and de Chardin, to those of Charles Darwin, Thomas Henry Huxley and others that set out the foundation of the modern evolutionary paradigm by the mid 19<sup>th</sup> century. A masterful overview that concludes in showing how modern advances in genetics and the understanding

'Designer God' who imposed purpose on nature, a view inherited by many others including Paley, Kant, Bergson and de Chardin, to those of Charles Darwin, Thomas Henry Huxley and others that set out the foundation of the modern evolutionary paradigm by the mid 19<sup>th</sup> century. A masterful overview that concludes in showing how modern advances in genetics and the understanding of mechanisms of adaptation have broadened our views of evolution and the natural world.

**Truss, Lynne. 2003. *Eats, Shoots and Leaves: The Zero Tolerance Approach to Punctuation!* Profile Books, London, UK. 209 pp. Hardcover, \$23.00 (ISBN 1861976127).** – This book is for anyone who loves punctuation and gets upset about today's disregard for its proper usage. Author Truss dares to point out that our system of punctuation is patently endangered today. No longer can it be assumed that everyone knows the basics of punctuation. Nor is it certain that how to use full stops, commas, and question marks are taught at school. So timely and wonderfully entertaining is this critique that the first printing was sold out quickly after its appearance and even topped the best seller 'Harry Potter' for sales in British bookstores for weeks! Pick up a copy and tread carefully as you assess your own use of punctuation! A most enjoyable read of an important topic calling for immediate attention.

**Wells, Spencer. 2003. *The Journey of Man: A Genetic Odyssey*. Princeton University Press, Princeton, NJ. 240 pp. Hardcover, \$45.00 (ISBN 069111532X).** – A clear and well-written volume that shows how the secrets about our ancestors are hidden in our genetic code along with all available evidence from the fossil record. Spencer Wells traces human evolution back to our very first ancestor, and in doing so, reveals how developments in the cutting-edge science of population genetics have made it possible to create a family tree for the whole of humanity. This important summary reiterates the scientific truth that differences in modern peoples are purely cultural, not based in biology, and that the case for an 'out of Africa' scenario of human migration is solidly supported by the evidence. Although this work is fairly technical (but not overwhelming), it provides an outstanding summary of the remarkable conclusions of 21<sup>st</sup> century human evolutionary biology.

**WILLIAM MAXWELL CAMERON,  
C.M., PH.D., HONOURED**

William (Bill) Cameron received Canada's highest honour for lifetime achievement on October 30, 2003, when he was made a Member of the Order of

Canada. Members can use the letters C.M. after their name. The citation conferring the honour reads as follows:

"William Cameron's vision and leadership were instrumental to the growth and development of oceanography in Canada. While at the University of British Columbia in the 1950s, he helped to develop the Institute of Oceanography. Best known for his Arctic research and hydrographic surveys, he served as chief scientist for the Canada-U.S. Beaufort Sea Expeditions. As a science administrator with the federal government, he oversaw the establishment of a number of research institutions, including the Institute of Ocean Sciences, the Canadian Centre for Inland Waters, and the Bedford Institute of Oceanography, Canada's largest centre for ocean research."

**BRIEF OBITUARY NOTICES**

Frederick Armitage passed away on April 10 at the age of 74. Fred retired from BIO in 1990 after 25 years of service.

John Brooke passed away on January 21 at the age of 71. An engineer at BIO from 1963 to 1982, he founded Brooke Ocean Technology in 1982 and continued to remain active in the field of oceanography for many years. John was an early proponent of the BIO Oceans Association concept.

Marion Dalzell passed away on January 12 at the age of 71. Marion was a supervisor in BIO's personnel group from the mid-sixties till her retirement in the mid-seventies.

David Warren Forrester passed away on February 22 at the age of 79. Warren was a physical oceanographer in the Coastal Oceanography Division at BIO from the mid sixties until 1976.

Capt. (Retired) Loran Strum passed away on February 4 at the age of 72. Capt. Strum had an illustrious sailing career that included 28 years at BIO. He retired in 1995 as Master of the CSS *Hudson*.

**FINANCIAL REPORT - APRIL 2, 2004***By Betty Anderson***OPERATING FUND**

Member Fees:	\$6,628.96
Socials:	361.24
Bank interest:	<u>501.85</u>
Total Income:	7,492.05
Less: Expenses:	<u>1,821.90</u>
	5,670.15

One Business  
Account with  
ING Direct  
covering 9 de-  
posits com-  
mencing at

3.85%,  
now 2.5%

\$5,125.00

Interest

278.99

5,403.99

CASH IN

BANK:

\$266.16

Account

Payable:

Office Supplies:

Envelopes,

Labels

\$38.59

**FOUNDATION FUND**

Donations:	\$6,599.15
Lunches, Be- luga Awards,	224.34
Bank Interest:	<u>0.58</u>
	6,824.07

Expenditures:

Beluga Award 6,522.35

Bank Charges  
and Cheques: 26.72

Lunches:

2002 94.39

2003 129.95 6,773.41

CASH IN

BANK:

\$50.66

**MEMBERSHIP REPORT –  
APRIL 2, 2004***By Betty Anderson*

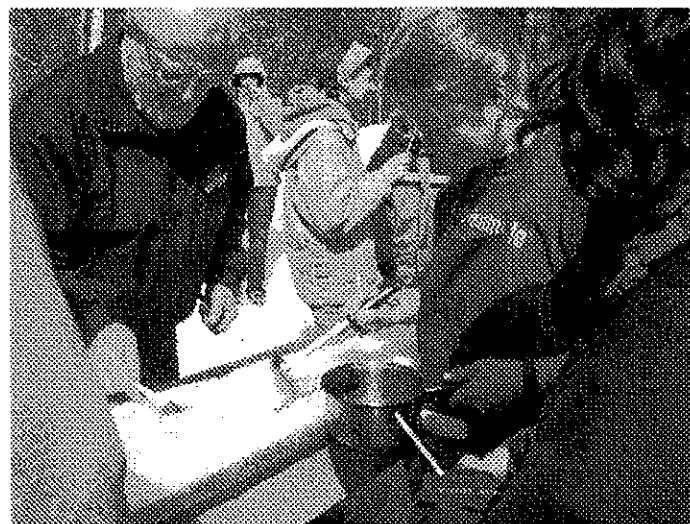
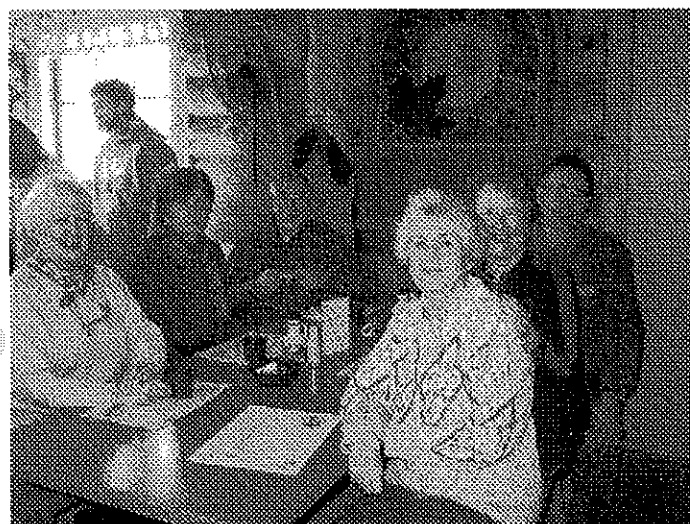
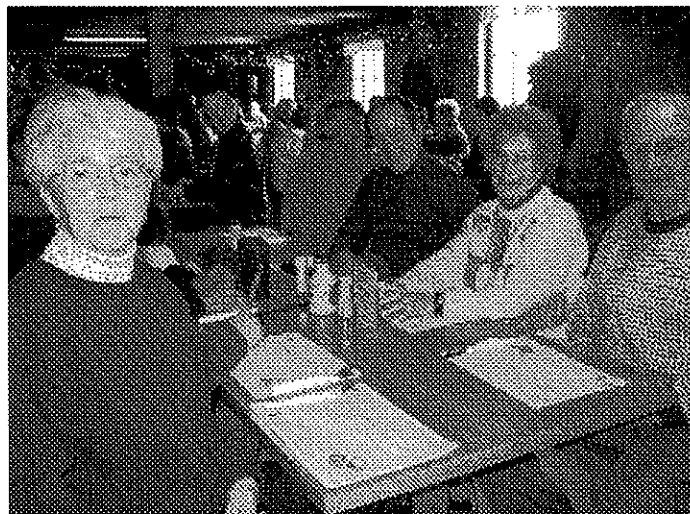
Our total membership for the fiscal year ending May 30, 2004, is 176 and, since publication of the January newsletter, it includes four new members: George Fowler (902-462-5784), Sharon Gillam Locke (902-835-5209), Alan Ruffman (902-422-6482), and William (Bill) Silvert (352-212-900-385). (Please amend the

telephone list circulated with your July newsletter to reflect these additions.)

It is our policy to give free membership to anyone joining in the last four months of our fiscal year (January 1 to April 30) with paid membership beginning the following May 1. Renewal for 12 members is outstanding: on follow-up, 4 have indicated they will not renew, 2 are ill, 4 have indicated they will renew, but their dues have not yet been received, and 2 have yet to reply. To date,

membership fees total \$6,628.96, including \$4,368.96 covering 1998 to 2004 and \$2,260 from prepaid members covering 2005 to 2022.

**REMINDER:** A total of 55 membership renewals will come due on May 1, 2004. Please check your membership card and, if it expires on April 30, please mail your cheque payable to the *BIO Oceans Association* at 79 Flamingo Drive, Halifax, NS B3M 1T2. Thanks for your attention to this matter.



### A Sweet Experience

On a cool, sunny, March Sunday, 10 carloads of us met for brunch at the Sugar Moon Farm's Pancake House near Earlton, about half an hour north of Truro. Billed as "a maple farm for all seasons", the busy and well run Sugar Moon did not disappoint: we enjoyed a repast of buttermilk pancakes with this year's maple syrup, sausages with

maple-flavoured mustard, and maple-flavoured baked beans.

The weather was too cold for the sap to be running so we couldn't trek through the woods to a sugar camp. Instead we visited a large building next to the Pancake House where large evaporators are used to boil down the sap (it takes 40 litres of sap to make one litre of syrup). Also, staff members showed how warm

syrup drizzled over snow will produce a delicious taffy that can be rolled up using a wooden stick and then eaten. Several traditional maple products were available, to taste and to buy, and we left the Sugar Moon laden with purchases, having thoroughly enjoyed a typical springtime Canadian outing. [Thanks to Jackie Dale for organizing this trip and to Natelene and Maurice Zinck for the photos above.]

### Atlantic Geoscience Society Honours Alan Grant

The AGS has conferred its 2004 Distinguished Scientist Award on Dr. Alan C. Grant, an Emeritus Scientist at the Geological Survey of Canada at the Bedford Institute of Oceanography. The Gesner Medal symbolic of the award was presented to Dr. Grant at a Society banquet on January 31 by Dr. Alan Ruffman.



This award recognizes his extensive contributions over many years to the development and promotion of geoscience in the Atlantic Region.

In the photo, Alan Grant accepts the Gesner Award from Alan Ruffman (left) and AGS President (2004) Reg Wilson (right). [Photo by Howard Donohoe; courtesy of the AGS Newsletter.]

# **DR. DAVID L. MCKEOWN: RECIPIENT OF THE 2004 BELUGA AWARD**



**T**he 2004 Beluga Award of the BIO Oceans Association goes to Dr. David Lorne McKeown in recognition of an outstanding 35-year career at the Bedford Institute of Oceanography. Dave has realized or led many innovative engineering developments in hydrographic surveying, fisheries research, coastal ocean science, marine emergency response, and environmental assessment.

In his role as a leader or participant in multidisciplinary seagoing expeditions as well as in his shore-based work in the management of Institute facilities and the oceanographic fleet, he was known for his hard working, generous, and fair spirit while keeping the overall best interests of the organization in mind. His unfailing and enthusiastic support of research and survey projects across all disciplines and divisions at BIO is widely acknowledged by his BIO

colleagues, both past and present.

Born in Vancouver, Dave and his family moved to Montreal when he was five years old. After high school, he continued his easterly migration by attending first Mount Allison University and then the Technical University of Nova Scotia, where he obtained a Masters Degree in electrical engineering in 1963. An Athlone Fellowship then brought him to Cambridge University where he obtained a Ph.D. in electrical engineering. After graduation, he took a position as a Senior Research Assistant in the university's Geodesy and Geophysics department for a few years.

Before going to England, Dave had attended a lecture that fired his imagination on the engineering challenges of the newly established BIO, one that Reg Gilbert had made at TUNS in 1962. It was no surprise then that he jumped at the opportunity to return to Nova Scotia in 1968 to join the Engineering Services Section

of the Marine Sciences Branch, Department of Mines and Technical Surveys, at BIO. He never left, and over the next 35 years occupied a variety of key positions at BIO: Head of the Electronic Design Section of Metrology Division; Head of Metrology Division; Head of the Coastal Oceanography Division; and, simultaneously, Science Vessel Coordinator for the Maritimes Region; manager of the Atlantic Zone Science Platform Committee; Head of Technical Operations; and manager responsible for space allocation.

His early engineering work set the stage for important instrument developments at BIO. For example, he led teams to study the application of underwater sound to acoustic navigation, to investigate the use of lead acid batteries as a possible power source for experiments in the deep ocean, and to develop a remotely controlled launch for hydrographic surveys, a predecessor to the DOLPHIN and ARCS projects. He

has contributed to the development of a variety of instruments used to study benthic habitats such as the TowCam, the Video Grab, and Campod. Over several years, Dave undertook development of "Sea Rover", a mechanized bottom crawler that was designed to measure the amount of heavy oil remaining in the fuel tank of the sunken barge "Irving Whale" in order to determine if leaks were occurring.

Dave's unselfishness is particularly evident in his work at sea where he has often served as chief scientist on multidisciplinary expeditions over the continental shelf and into the deep sea. He has fostered the concept of the "Metrology Cruise" where new instruments and technology could be tested and evaluated. These expeditions often involved enhancing the surveys or experiments of scientists from several different organizations.

In the latter years of his career, Dave undertook a variety of administrative tasks such as the allocation of ship time for the research and survey fleet and the allocation of office and laboratory space to the various components and staff in the BIO complex. In carrying out these difficult tasks, he managed to respect the programs and priorities of the Institute while doing his best to come up with fair, unbiased, and objective solutions that met the needs. In this he succeeded admirably and was seen by all sides as an honest and fair broker.

During his career in the Public Service, Dave has received a DFO merit award (1987), the ADM Commendation Award (2001), and in 2002 the DM Prix d'Excellence. The latter award was presented jointly to Ms. Lenore Bajona and Dave for their development of a computerized ship-time request system that vastly improved the previous manual system and continues to be used to this day. Dave is now formally retired from the Public Service but he is continuing to contribute as an Emeritus Scientist at BIO. He has made numerous significant contributions to Institute-wide programs over many years and is a most deserving recipient of the Beluga Award.