



BIO-Oceans Association Newsletter

Issue 19, April 2003

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

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PRESIDENT'S NOTE:

"Spring, Summer, and Promises"

by David Nettleship



This message marks the approach of the end of my first year as president of the BIO - Oceans Association, and what a year it has been! The time has sped by, with a great deal accomplished by an unusually active executive and keen membership body. Evaluations of projects, old and new, dominated, as priorities became clear and work targets established. Staging the OA display at the public 'BIO Open House' and the involvement of many OA members serving as guides and event coordinators was the result of intense planning, involving considerable amounts of time and energy. Not only were we able to showcase exhibits of oceanographic significance, but also the vision of our organization and the incredible creative talents of our members. But the principal highlights of the first year have doubtlessly been the initiation of our Archives programs – library, photography and equipment/artifacts – and development of real work objectives (for details, see BIO-Oceans Newsletter Issue 18), the outstanding growth of both the OA Website (now a treasured and invaluable information resource) and the Newsletter (our information-packed current communication mechanism), and the wealth of special social events that encompassed the year

from last summer to spring 2003. With spring upon us and a new summer approaching, I'm looking forward to an abundance of enjoyable OA activities including the 'Spring Celebration' special seminar and social on 24 April, the much anticipated Beluga Recognition Award presentation on 22 May, along with promises of 'fun' festivities later through the summer such as July 'frolicking' along the shores of St. Margaret's Bay! Promises, promises, promises, all within our grasp awaiting to brighten and add some colour to our Nova Scotian spring and summer experience.

It seems only appropriate, however, to also focus some attention on an annual special event of every organization, no matter how large or small, the Annual General Meeting (AGM). If ever there was a gathering to be frowned upon or avoided, the AGM stands out as a likely candidate for the 'crown'. But how wrong that view is! Yes, of course, certain items of business that need to be dealt with are often dull. But instead of being a boring affair, an AGM can be exciting and stimulating. It provides an opportunity for the Executive to report on past and current activities to its members, and equally important, for the membership at large to contribute ideas and suggestions for improvement such as

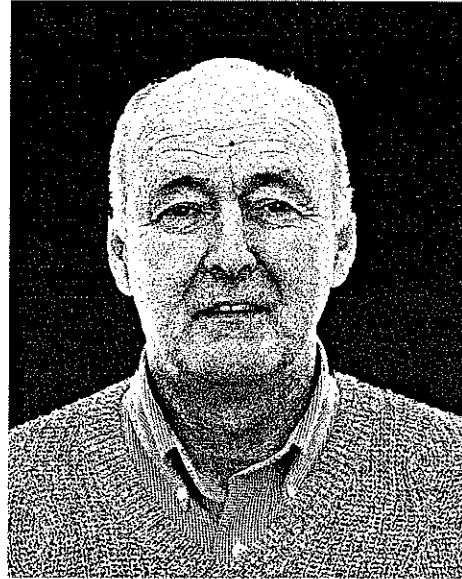
PRESIDENT'S NOTE (continued)

changes in direction and/or focus, if deemed necessary. The AGM should be a vibrant playground placing our collective creative talents and energies to the test! Overall, an invigorating dialogue that is mutually beneficial to all parts of the organization, an event that lends strength and growth elements that are positive and essential to the future welfare of a society. It is my hope that our 2003 Ocean Association's AGM, scheduled for the morning (0930 h) of 22 May, will be informative, productive and entertaining, a mix that is far from the category of a "boring business meeting"! The encapsulated summaries of work projects and objectives, accomplishments to date, gaps in results requiring additional attention and effort, and future goals should be 'cutting edge' stuff that keeps all of us sitting on the edge of our seats displaying the 'migratory urge' to leap off the mark heading towards new goals and objectives spanning the full range from work projects to social activities. Am I being overly optimistic? Well, in a short 90 minutes (0930-1100 h) – my promise of a brief and succinct AGM – your Executive will attempt to stimulate and excite, actions to serve as catalysts for the development of future OA ventures. So come and join us at 0930 h on 22 May 2003 in the BIO Auditorium to participate in the review of recent BIO-OA activities and accomplishments, and plans for the upcoming year including those ideas generated via the meeting of the Ocean Association's mix of extraordinary people, a virtual 'explosion' of proposals that will take us forward on our mark towards still greater endeavours and accomplishments. I promise you, on behalf of the full OA executive body, that the 2003 AGM will be a worthwhile event, one that will enliven and brighten your spring! It's a big promise, but it's one we fully intend to keep.

Best wishes for an enjoyable spring, with expectations for a wonderful summer.



ARTHUR COSGROVE
RECIPIENT OF THE '2003 BELUGA
RECOGNITION AWARD'



Art Cosgrove is the third recipient of the BIO-OA 'Beluga Recognition Award'. As head of BIO's Drafting and Illustrations Group (also known as the technographics section), he has been at the cutting edge of scientific illustration from the early 'pen & ink' days to today's world of computer-generated graphics. Since 1970, he has had a guiding and creative hand in illustrating documents, posters, and displays for scientific publications and for public relations and educational purposes.

Few draft submissions by scientists were not improved immeasurably under his scrutiny and analysis, and few people have had as large an impact on such a diverse cross-section of BIO's professional and general publics as Art Cosgrove. Clearly, Art personifies the 'ideal' candidate for the *Beluga Award*, an individual who has displayed an unusually high and unselfish dedication to community spirit, unselfish contributions to the success of projects and initiatives, and a work ethic that fosters teamwork.

Halifax born and raised, Art is a graduate of the Nova Scotia Community College in technical drafting and design. Upon graduation in 1969, he

worked for small firms involved in plumbing design and installation but, after weathering two strikes in under one year, Art decided to seek other opportunities. He found challenge but not stability when he was hired in November 1970 as a term draftsman for geoscientist Georges Drapeau at BIO. Tasked with preparing scientific illustrations depicting results from studies of the polluted shoreline of Chedabucto Bay after the oil tanker *Arrow* grounded on Cerberus Rock in February 1970, Art persevered equally through the exciting and dull bits, did well, and was rewarded with two extensions of his 3-month term, which allowed him to get familiar with many other activities at the Institute. The stability of full-time employment arrived in May 1971 when he won a competition to become one of three illustrators under John Lord in BIO's central Drafting and Illustrations Unit.

The mid-seventies in Canada's public service were the heyday of make-or-buy analyses, zero-base budgeting, and contracting out, and Art gained much valuable experience as the drafting unit sought to establish and maintain high standards while working to establish a base of contract resources that were capable of doing acceptable work. It took years to build the base, but once it was up and working, the Drafting & Illustrations Unit used as many as five firms and provided work for as many as 20 individuals, with contract values totalling up to a quarter of a million dollars per annum.

Art's development as a premiere drafting designer was rapid, and his calm and cooperative approach to dealing with a wide range of pressing demands and tough customers and contractors did not go unnoticed. Thus, when the Head of the Unit himself resigned in 1977 to establish his own firm, it was perhaps no surprise that Art won the competition for the position against a large field of candidates drawn from various federal departments. He was on his way!

Being at the helm of the drafting unit expanded Art's mandate enormously and allowed his abundant talents to be used to a maximum. Art thrived in his new role, attacking things he really enjoyed

and problems that seemed insurmountable by others. He also enjoyed working directly with scientists in the planning and design of their illustrations. The objective through Art's eyes was to get everything clear and correct, in the simplest manner possible. As a consequence, Art became indispensable to scientists from all departments resident at BIO.

Apart from scientific illustration work, BIO relied on Art's group to oversee the design and production of hundreds of posters for BIO's Open House extravaganzas held quadrennially since the seventies. Using computers to prepare technical illustrations crept into the drafting world in the early 1980s, but drafting was done mainly on mainframes then. Art led the charge to train staff and to use an early software program called DISSPLA and BIO's mainframe CDC computer to typeset all 1984 Open House display text in both official languages and then print it out on the large flatbed plotters used for chart production by the Canadian Hydrographic Service at BIO. The drafting group's plunge into computer-based drafting was launched and has been growing ever since.

In the mid-80s, a chart of the Quaternary geology of the Polar Arctic was produced. This 3-month project required parallel production in four parts, and managing a stable of contractors to fill in all colour components. The tight deadline was due to the plan to have the Prime Minister of Canada, Brian Mulroney, present copies to the Premier of the Soviet Republic during his state visit to Russia. Art Cosgrove, in his customary efficient and focused approach to problem-solving, designed a suitable procedure to follow, and the required deadline was met.

About 1987, the Drafting & Illustrations Unit purchased a scanner that 'jump-started' them into the true phase of computer graphics at BIO. This was the time of 'legline art', but the technique still required outside contracts for colour application. It was in 1995, the year Halifax hosted the G7 meeting, that the group acquired its first colour plotter, upgraded its computer hardware and software, and began to produce everything electronically in-

ART COSGROVE (continued)

house. This was now a totally new 'game' with many new rules and regulations to be identified, learned, and mastered. The ability to produce results faster and better was fortuitous. Even with major cuts in budgets and staff in the late 1990s, the drafting unit, under Art's capable supervision and guidance, was able to keep up with most of the requirements of the Institute. The formidable transition from 'pen and ink' to electronic drafting and graphics design was accomplished, largely due to the leadership and perseverance of Art Cosgrove.

In a career spanning 32 years, Art has worked with hundreds of managers, scientists, and graduate students to produce thousands of scientific documents. To mention his name to past and present associates triggers memories of the times they approached Art with something that 'had to be done yesterday'. Art and his colleagues were always approachable and somehow always managed to accommodate every deadline. No judgement was made of the request and it was handled in a quiet and professional manner. What more can be said? In summary, Art has led the group through a number of major transitions in the techniques of scientific illustrations, as well as demanding and important projects at BIO. These have included projects such as BIO's annual and biennial science reviews, wall charts, and contributions to notable projects such as the scientific illustrations for the Georges Bank – Gulf of Maine boundary dispute and Canadian parts of the Decade of North American Geology publication project commemorating the 1988 centenary of the Geological Society of America. Most striking, however, has been his unceasing desire and dedication to help the scientific staff and others attain their work goals. The zeal to give and assist has never faltered despite the obstacles of massive technological change and resource reduction, a vivid testimony to Art's invaluable contribution to the BIO community over three decades. Truly, a performance record most deserving of the BIO-OA's 2003 *'Beluga Recognition Award'* for outstanding service!

FROM THE ARCHIVES ... 35 YEARS AGO

These Highlights are excerpted from BI World Newsletter, published at the Institute between 1967 and 1972

By Bosko Loncarevic

Apr. 2, 1968, Vol. 2, No. 4

The staff Social Evening attracted 150 people. Highlight was a presentation of a scene from "Arsenic and Old Lace". A song composed and presented by Warren Forrester ... Dr. W.N. English, former Director, appointed a head of the new Physics Division at the B.S. Research Council. ... A portable Public Address system available in the Conference room. ... Spring Dance set for April 26 at the Mayflower Curling Club (\$5.50 per couple for Staff Assoc. Members). ... HOCKEY NEWS: Metrology wins again semifinals against Oceanographic Research Outcasts. Engineering Services and Hydrography in the other semifinals game. 3 publications and 13 reports listed. ... D.L.McKeown joins Metrology section.

Apr. 25, 1968, Vol. 2, No. 5

Marine Geophysics reports preparations for two major cruises on Baffin in the Gulf and on Hudson on Mid Atlantic Ridge. ... Hydrography reports expected delivery in May of two satellite navigation receivers (Magnavox and ITT). ... The instrumentation for measurement of wind turbulence was successfully installed on the Stable Platform on 8 April. ... The Art classes (each Thursday evening) will display "the best efforts" of participants in the Cafeteria on 3 May. ... MEL reports that the New Fish Lab is completed and "occupied with mainly humans at present, but more fresh fish are expected shortly." ... Six trailer labs now on site to the North of the Fish Lab... New 65' research vessel named NAVICULA to be launched 7 May and completed probably in early June. ... NEW FACES: John Woodside, Barry S. Muir. ... "After a long and, at times, painful period of adjustment, the Library has finally obtained and had installed all (or nearly all) its new furniture and stack shelving."

July 11, 1968, Vol. 2, No. 6

A farewell party for Dr. and Mrs. Doe was held in the cafeteria on June 27. ... Construction Report: 1. Pier extension; 2. Laboratory wing extension (\$455,900) and 3. Additional two floors on office wing. ... A prototype survey launch to be constructed this summer ... B.I.'s first Satellite Receiver obtained 250 fixes during 16 days at sea ... B.I Staff Picnic to be held on August 14 on McNab's Island ... ICNAF reported on the 18th Annual Meeting held in London ... Dr. Srivastava has returned from the SIO centennial world cruise to the Indian Ocean. ... Ten new faces joined B.I. and six departed including Arne Holler and Harry MacPhail.

Complete versions are posted on our
web site.

WWW.BEDFORDBASIN.CA

OBITUARIES

Once again, our heartfelt sympathy is extended to each and every member of the families of the following friends and colleagues who have recently passed away.

Florence Ellen "Flo" Danis, Lower Sackville, died peacefully January 12, 2003, at the age of 72. Flo worked in the Finance Branch at BIO during the mid-60s. She is survived by her husband Garry and children Tommy, Michelle, Tony, Jacqueline, Scott and Rollande.

Lewis Harlow "Lew" King, 78, passed away February 7, 2003 at the Dartmouth General Hospital. Lew joined the Sydney Branch of the Geological Survey of Canada in 1954, and was a familiar figure at BIO, where he worked during the years 1963-1982. He is survived by his wife Sally, daughters Leslie, Marcia, Sara, and Julie, and sons Edward and Thomas. A full coverage of Lew's many achievements and his distinguished career can be found on our website.

**PUTTING THE BRAS D'OR LAKES
BETWEEN COVERS**

by Michael Latremouille

BIO scientists have collaborated with the Nova Scotian Institute of Science to publish a comprehensive scientific picture of the Bras d'Or Lakes in the centre of Cape Breton Island. This is a well written, jargon-free, and abundantly illustrated publication that will interest all those who need or want to better appreciate this beautiful part of Nova Scotia.

If you want to purchase a copy or find out where you can peruse one, contact Ms. Sharon Longard, the Librarian of the Nova Scotian Institute of Science. You can reach the very helpful Ms. Longard by telephoning her at 494-1101 at the Dalhousie University Killam Science Library or by sending her an e-mail enquiry at sharon.longard@dal.ca.

For more information, please also see "Noteworthy Reads" found later in this newsletter.

**UPDATE AND PLEA FROM THE
SOCIAL COMMITTEE**

By Jackie Dale

A tentative list of social activities is presently being prepared for the year 2003/04. The aim is to come up with a list, which will attract the interest(s) of as many members as possible. In order to do this, we desperately need input from you, our members. This is a plea to any member who feels that he/she can devote a *very small* amount of time to the preparation of the initial list and/or part of the planning process required for a single event. Various types of activities can be considered, but the success of each individual event will ultimately be judged by the attendance. The completed list will be published in the July newsletter.

If you have any questions, can offer suggestions, or can give that *little bit* of time, please call Jackie Dale (466-2584), or e-mail her at jdale902@AOL.com. You would make her day!

FINANCIAL REPORT—March 31, 2003

PERIOD: 1998-2003

By Betty Anderson

Operating Fund

<u>Membership Fees:</u>	\$5,908.96
Socials:	319.53
Bank Interest:	352.80
Total Income:	<u>6,581.29</u>
<u>Less: Expenses:</u>	1,550.50
	<u>5,030.79</u>

One Business Account with ING

Direct covering 7 deposits commencing at 3.85%, now 2.75%:

4,625.00

Interest: 130.16 4,755.16

CASH IN BANK: \$ 275.63

Foundation Fund

<u>Donations:</u>	\$5,849.15
Bank Interest:	<u>.53</u>
	5,849.68

Expenditures

Beluga Award:	\$5,798.08	
Bank Charges and Cheques:	<u>25.02</u>	<u>5,823.10</u>

CASH IN BANK: \$ 26.58

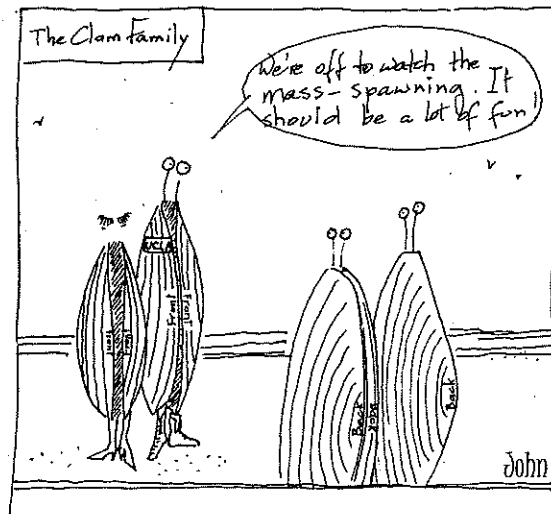
MEMBERSHIP REPORT

By Betty Anderson

Our membership now totals 161 and includes two members who are allowing their membership to lapse and two members who joined in 2003. It is the Association's policy to continue sending newsletters to non-renewal members until April of the current year. Membership for members joining during the first four months of the current year will commence on May 1, 2003.

We extend hearty greetings to new members Carol Morrison tel. 902-860-0101 and David Porteous, tel. 902-677-2821. Please add these names to the telephone list enclosed with the July 2002, Issue 16, newsletter. Also, telephone numbers for the following were inadvertently omitted in previous newsletters and should be added to the aforementioned list: Paul Jollymore, tel. 613-925-4910, Elmer Lewis, tel. 902-834-2744, Peter Wells, tel. 902-477-3674. Please amend the following telephone numbers: Penny Bambrick to 902-443-0365, Marg Garolitz to

867-390-2113, Graham Lutwick to 902-624-0183, Willem van der Linden to 31.30-6910560, Ying Wang to 86(25)6307810. Further, correct the following misspellings: Michael McMullen, Burt Smith and Vivian and Shiri Srivastava. An updated list will be included in the July 2003 newsletter, published in the next quarter after the annual general meeting on May 23, 2003.



**BIO OCEANS
ASSOCIATION
Needs Your Ideas & Input
at the
ANNUAL GENERAL
MEETING 2003**

Wednesday, 22 May 2003, 0930-1100 h
Main Auditorium, BIO
Dartmouth, N.S.

PROPOSED AGENDA:

1. Call to Order and Introduction of Current Executive.
2. Review and Approval of Agenda.
3. Review and acceptance of Minutes of 2002 AGM held 9th May, 2002.
4. Business Arising from 2002 Minutes.
5. Treasurer's and Membership Secretary's Reports
6. President's Annual Report on Behalf of the Board of Directors
7. New Business:
 - a) The Archives 'March to Glory':
 - Library archives – BIO policy and action
 - Photo archives – the collection and progress
 - Equipment/Artifacts archives—the current need
 - b) Communication Pathways:
 - The OA Website – development and usage growth
 - The OA Newsletter – structure, content & distribution
 - c) BIO History and the Future:
 - Chronology of events and oral histories
 - Historical staff list and publications
 - d) Entertainment, celebrations and other social events
8. Nominations and Election of Directors
9. Adjournment

If there are topics or work items that you wish to place on the agenda, please contact the President, David Nettleship (voice: 826-2360; e-mail: dnnlundy@navnet.net), or Vice Presidents Jim Elliott (voice: 434-6072; e-mail: ElliottJ@mar.dfo-mpo.gc.ca) and Don Peer (voice: 857-9268; e-mail: d.peer@ns.sympatico.ca). Suggestions for inclusion - new or old business -- are most welcome.

**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).

Atkins, Peter. 2003. Galileo's Finger: the Ten Great Ideas of Science. *Oxford University Press, Oxford, UK. 368 pp. Hardcover, \$54.00 (ISBN 0198606648).* — An outstanding overview of the quest for knowledge by Western scientists over the last 400 years, and what the major breakthroughs were and how they were inter-related. A gigantic task, but one which the author and Oxford chemist Peter Atkins does with considerable skill and insight. Although seven of the ten chapters focus on the physical sciences including the 20th century's two most important and difficult physical theories – relativity and quantum mechanics – sometimes containing 'heavy' concepts and technical details, Atkins leads the reader through the 'mine field' with ease making difficult things easy to understand. Of the remaining three chapters, two deal with the biological world – evolution and DNA – and a final chapter on the philosophy of mathematics. A challenging read? Yes, but one with incredible rewards for those that move forward slowly and with some persistence. In the end, the reader will be in awe about the structure of the natural world,

and of the people (i.e., scientists) and their ideas that have clarified the 'big picture' for the rest of us. Atkins, the teacher, takes us on an exciting and stimulating journey that not only informs, but also leaves us searching for more knowledge through the application of what we call science.

Berton, Pierre. 2003. *The Joy of Writing*. Doubleday Canada, Toronto, ON. 317 pp. Hardcover, \$34.95 (ISBN 0385659970). — Ever thought you might write a book after you retire? Well, think again and have a careful read of author Pierre Berton's latest release on writing. Doubtless his review about the craft and profession of writing will cause you to reconsider. By chronicling his professional development as a writer, Berton shows vividly that writing is not for those seeking a part-time 'hobby' to fill in the time. Instead, it is a profession requiring discipline and dedication, and the desire to learn the skills of the writing craft. Examine the pitfalls as identified by Berton, and if the 'want' to be a writer remains, then go ahead. At least you'll have a clear picture of what awaits you!

Collins, Robert O. 2002. *The Nile*. Yale University Press, Cambridge, MA. 384 pp. Hardcover, \$66.00 (ISBN 0300097646). — Explore the secret's of the world's longest river flowing from Mount Kikizi in Burundi to the Mediterranean Sea, a distance of 4,238 miles! Collins conveys the allure and magic of this great natural wonder by chronicling not only the river's geography, geology and wildlife, but the history and outcomes of attempts to control it. A captivating read, with the text supplemented by 82 illustrations, 16 in colour. Overall, a vivid portrait of one of the world's great rivers.

Dennett, Daniel C. 2003. *Freedom Evolves*. Viking Books, New York, NY. 324 pp. Hardcover, \$37.50 (ISBN 0670031860). — Philosopher Daniel Dennett brings us a timely and clear narrative to reconcile human freedom with physical determinism. He continues his argument of the compatibility between the opposing views of the relative importance of determinism and indeterminism. After providing his scientific view of our place in the universe, made with considerable philosophical wit and insight, Dennett concludes that though evolution formed us, our lives are largely the product of our own motives and desires. That means we must,

ultimately, take responsibility for our choices and where they take us. A rich and rewarding read.

Lacrampe, Corine. 2003. *Sleep and Rest in Animals*. Firefly Books, New York, NY. 112 pp. Softcover, \$24.95 (ISBN 1552976777). — Have you ever wondered about the sleeping and resting habits of the animal world? If you have, this beautifully illustrated little book will command and hold your attention. Details are provided of the major features of sleep and rest in insects, reptiles, birds, and mammals, facts that will both astound and amuse you. Under the waves, many sharks lie perfectly still on the seabed while resting during the day, whereas certain other fish species, such as tuna, have to keep swimming while asleep to keep from drowning. Overhead, swifts and certain seabirds sleep on the wing, with one documented case of a Royal Albatross remaining in the air for almost 200 days without landing! Pick up this summary of sleep and rest in animals and find out how diverse these essential behaviours are, and where we fit in. A most enjoyable and informative read.

Mordo, Carlos. 2002. *Easter Island*. Firefly Books, New York, NY. 160 pp. Hardcover, \$29.95 (ISBN 1552976211). — The latest update of the remarkable history and culture associated with the 46-square-mile island of Rapa Nui (renamed Easter Island by the Dutch explorer Jacob Roggeveen in 1772), located about 2,000 miles west of Chile in the South Pacific Ocean. Carlos Mordo invites us to Easter Island, a land of exotic beauty and harsh reality (vividly shown in over 120 colour photographs) to ponder over the original colonization of the island by migratory Polynesians some 1,500 years ago, their intriguing culture including the 838 moai (large stone sculptures) carved and raised on the island, and the population's rapid destruction after the arrival of white Europeans. A super summary of a remote and endlessly fascinating culture and fascinating oceanic island.

Petrie, Brian (ed.). 2002. *The Oceanography of the Bras d'Or Lakes*. Proceedings of the Nova Scotia Institute of Science, Vol. 42 (Part 1), Halifax, NS (available from: Librarian, NSIS, c/o Science Services, Killam Science Library, Dalhousie Univ., Halifax; e-mail: slongard@is.dal.ca). 182 pp. Softcover, \$22.00 (ISSN 0078-2521). — A most timely multi-authored overview of current

knowledge of the physical, chemical and biological oceanography of the Bras d'Or Lakes. Ten leading scientists from the various marine disciplines come together to provide seven comprehensive, yet highly readable and scientifically sound, papers that cover a broad range of subjects from the general characteristics of the Lakes, their geology and coastal character/evolution to the system's principal living inhabitants: fish (winter flounder, cod, American plaice) and large epibenthic invertebrate (lobster, crabs, bivalve molluscs, echinoderms) populations. Overall, an important summary of the oceanography of the Bras d'Or Lakes that will be a source of information to anyone, from recreational visitor to professional, interested in the Lakes and surrounding countryside.

Schwimmer, David R. 2002. King of the Crocodylians: The Paleobiology of Deinosuchus. *Indiana University Press, Bloomington, IN. 234 pp. Hardcover, \$46.10 (ISBN 025334087X).* — An outstanding description of *Deinosuchus rugosus*, the extinct giant ancestor of modern-day alligators and crocodiles. This amazing and monstrous species of crocodylian thrived along North America's coasts 80 million years ago. Large individuals weighed close to 19,000 pounds and measured 40 feet long, more than twice the length of modern crocodiles and alligators, rivaling even *Tyrannosaurus rex*! And they had the most powerful jaws of all prehistoric animals known. Schwimmer profiles our advancing knowledge of *Deinosuchus* (first discovered in SW Texas in the 1930s), and pieces together its physical characteristics, range, genealogy, hunting habits, and general ecology. A stimulating and exciting 'detective' story by a master paleontologist.

Thurston, Harry. 2003. Island of the Blessed: the Secrets of Egypt's Everlasting Oasis. *Doubleday Canada, Toronto, ON. 388 pp. Hardcover, \$39.95 (ISBN 0385259697).* — An examination of the history of a fragile ecosystem – the Dakhleh oasis – located in the western Sahara desert that exemplifies the human condition worldwide and its relationship/impact with the global environment. The Dakhleh oasis region has been occupied and exploited by humans for an estimated 400,000 years. Thurston takes the reader on a fascinating journey back in time that combines the environmental and the historic to show us the nature and

magnitude of the environmental problems we face, and how a better understanding of what has happened in the western Sahara can help us focus and find solutions to crises happening throughout the world. A valuable expose of the need for careful environmental conservation and management of finite resources.

Viney, Michael. 2003. Ireland. *Smithsonian Institution Press, Blue Ridge Summit, PA. 256 pp. Hardcover, \$52.00 (ISBN 1588341100).* — This book, the latest in the Smithsonian Natural History Series, covers Ireland's diverse geology, animals, plants, and special ecosystems that make the island intriguing and most beautiful. The mossy wetlands (peat bogs) cover 16% of the surface of Ireland's 32,595 square miles, and have an unusually rich flora and fauna that is described and interpreted beautifully in words and 81 illustrations (50 in colour). Viney's account makes you want to pack your bags to go and explore the wonders of this most interesting North Atlantic island.

Wickham, Eric. 2003. Dead Fish and Fat Cats: A No Nonsense Journey through our Dysfunctional Fishing Industry. *Granville Island Publishing, Granville Island, Vancouver, B.C. 168 pp. Softcover, \$19.95 (ISBN 189469418X).* — This critique of current and past fishing practices and policies is both thought-provoking and revealing. The book is well written and contains many astute observations based upon a half century of first-hand experience as a practicing fisherman (now retired) in British Columbia. Wickham's criticisms of the Department of Fisheries and Oceans management of commercial fishing in Canadian waters are stinging and effective. They point out serious shortcomings, backed up with fairly accurate supporting evidence. Conclusions drawn from the information presented warrant careful consideration by the Canadian government, as the key recommendations made to establish well-managed fisheries in Canada are straightforward and based upon policies already in practice in Australia and New Zealand. Clearly, major changes in fisheries management in Canada must be made to prevent further damage to remnant wild fish populations.

Wilson, Edward O. 2002. The Future of Life. *Vintage Books, New York, NY. 229 pp. Hardcover, \$23.00 (ISBN 0679450785).* -- Another important

work by Pulitzer-prize-winner Harvard scientist about the need for conservation and protection of biodiversity and living systems. In this thought-provoking book, Professor Wilson shows that tougher environmental regulations and policies do not have to be in conflict with economic growth. A worthwhile read that should be required reading for political decision-makers and economists alike, as well as the general public.

SPECIAL VIDEO REVIEW

by Bob Cook

The Fisherman's Friend: A.G. Huntsman, 1883 – 1973. *Written and directed by Rod Langley and Associates for Canada Department of Fisheries and Oceans; Dr. James Stewart, scientific authority and executive producer. Canada Department of Fisheries and Oceans, Dartmouth, NS. VHS video, 27 minutes total. 2002. (available from Bedford Institute of Oceanography Library, contact Marilyn Rudi).* – Third of a video series initiated by the 'First Fisheries Documentary Society' in cooperation with DFO -- the first in 1994 ("*Passion for Science: Bill Ricker – A Scientific Journey*") and a second in 2001 ("*Kabata: Evolution of a Scientist*") -- a documentary video on the life and times of Dr. A.G. Huntsman, a marine biologist extraordinaire, who was Professor of Marine Biology at the University of Toronto and the first Director of the St. Andrews Biological Station. Although trained in medicine, Dr. Huntsman opted for a career in freshwater and marine biology. His international associations made him exceptionally influential, especially in Canada, in the development of oceanography, fisheries science, and biology generally. He also displayed a strong and genuine interest in fishermen and their needs, and ensured that studies under his direction were practical and applied in the fishermen's best interests. Overall, this documentary provides a unique view of Dr. Huntsman's contribution to the development of marine studies in Canada along with commentaries from several scientists who knew him. The legacy of A.G. Huntsman has been reflected in many ways, including the establishment of the '*Huntsman Marine Science Centre*' in 1970, a private research and teaching institution located

adjacent to the St. Andrews Biological Station, and the '*A.G. Huntsman Award*' for excellence in outstanding contributions to marine science given by the Bedford Institute of Oceanography.

THE EDITOR'S COLUMN

By Michael Latremouille

Life in the BIO-OA Newsletter universe is literally unfolding as it should. You are reading the first unfolded issue that we have circulated to all members! It was getting tougher and tougher to fold and stuff our now typical 10 to 14 page issues into letter size envelopes. Larger envelopes were the answer: we hope you will appreciate the change, which saves effort and gets rid of our wrinkles for pennies an issue.

This newsletter issue is also the first produced by Vice-Editor Lisa O'Neill. Lisa has stepped in to help out as I go galavanting around the country this spring to attend my teenage daughter's synchronized swimming competitions in Campbellton, New Brunswick, Montreal, and Victoria, BC. Thanks a bunch for your very capable assistance, Lisa and to tour these different areas.

Response to this column, which first appeared in our January 2003 issue, was muted but I did get feedback telling me that:

- 1) there were too many long articles and not enough short ones,
- 2) it would be nice to read some personal information about people highlighting their talents and contributions as friends and family as well as their hobbies, interests, and community involvements and participation,
- 3) the idea of regular columns like "Noteworthy Reads" is good, and this concept could be expanded. with items such as a technology column to talk about what's new in technologies that a member or members might be willing to briefly report on, and
- 4) different members want a newsletter for different reasons and efforts should be made to cater to different tastes.

Over the coming issues, we will try to address these valid concerns and to evolve a newsletter that stimulates readers to respond and contribute on a regular basis. Please feel free to continue sending any suggestions or comments you may have to Lisa or myself. Until the next issue in July, au revoir...

BIO ARCHIVES POLICY APPROVED

By Bosco Loncarevic

After a considerable discussion among various interested parties, a formal institute Policy on BIO Archives was approved by the "Tuesday Club" of BIO Directors on 19 March, 2003. Primary objective of the Policy is to encourage collecting and preserving Archival records created at BIO. The Archives will document administrative activities; record the breadth and direction of scientific research; and provide information about the lives and careers of BIO staff.

The BIO Archivist will be guided in these functions by the Archives Advisory Committee, a group of BIO staff members (past and present) who have an interest in archival matters. An Index to the present holdings of the Archives is available on our web site.

ON THE LIGHTER SIDE

TEN PUNS FOR 2003

1. Two vultures board an airplane, each carrying two dead raccoons. The stewardess looks at them and says: "I'm sorry, gentlemen - only one carrion per passenger."
2. Two boll weevils grew up in South Carolina. One went to Hollywood and became a famous actor: the other stayed behind in the cotton fields and never amounted to much. The second one, naturally, became known as the lesser of two weevils.
3. Two Eskimos sitting in a kayak were chilly. They lit a fire in the craft, but it sank, proving once again that you can't have your kayak and heat it too.
4. A three-legged dog walks into a saloon in the Old West. He sidles up to the bar and announces: "I'm looking for the man who shot my paw."
5. Did you hear about the Buddhist who refused Novocain during a root canal? He wanted transcendental medication.
6. A group of chess enthusiasts checked into a hotel and were standing in the lobby discussing their recent tournament victories. After about an hour, the manager came out of the office and asked them to disperse "But why?" they asked, as they moved off. "Because," he said, "I can't stand chess nuts boasting in an open foyer."
7. A poor mother and father in Argentina who have twins see them off on their separate life journeys. One of them, Amal, goes to start a family in Egypt. The other, Juan, goes to start a family in Spain. Many years later, Juan sends a picture of himself to his mother. Upon receiving the picture, she tells her husband that she wishes she also had a picture of Amal. Her husband responds: "They're twins! If you've seen Juan, you've seen Amal."
8. Some friars were behind on their belfry payments, so they opened up a small florist shop to raise funds. Since everyone liked to buy flowers from the men of God, a rival florist across town thought the competition was unfair. He asked the good fathers to move out of town, but they would not. He went back and begged the friars to move away. They ignored him. So, the rival florist hired Hugh MacTagart, the roughest and most vicious thug in town to "persuade" them to move. Hugh beat up the friars and trashed their store, saying he'd be back if they didn't close up shop. Terrified, they did so, proving that Hugh, and only Hugh, can prevent florist friars.
9. Mahatma Gandhi, as you know, walked barefoot most of the time, which produced an impressive set of calluses on his feet. He also ate very little, which made him rather frail and, with his odd diet, he suffered from bad breath. This made him (*Get ready: this is so bad, it's good*) *A super callused fragile mystic hexed by halitosis.*
10. And finally, there was the eCustomerService-world.com punster who sent ten different puns in an email, with the hope that at least one of the puns would generate a seasonal laugh. Unfortunately, no pun in ten did.

**BIO-Oceans Association's
"Spring Celebration"
Special Seminar and Social**

Open to BIO-OA Members & Non-Members
BIO Main Auditorium
Thursday, 24 April 2003
(open social 7:00 pm; lecture 7:30 pm)

**'Big Sharks, Small Sharks
and More Sharks off Atlantic Canada**
Speaker: Dr. Steve Campana

Dr. Steve Campana, senior scientist with Fisheries and Oceans Canada at the Bedford Institute of Oceanography (Dartmouth, NS), is one of Canada's foremost authorities on the distribution and biology of sharks. Dr. Campana will take us on a tour of Canadian east coast waters, a marine environment that harbours a fascinating collection of shark species, many of which are seen in coastal waters of Nova Scotia. Some of our sharks, such as the Great White, are familiar to most people. Others, such as the Greenland Shark, are just as big, but they are virtually unknown even to marine scientists. In this talk, Dr. Campana will present an overview of some of Atlantic Canada's most important shark species, information that includes principal features of their abundance, biology, and impact on the ecology of marine waters and systems. Dr. Campana will also touch upon the factors that regulate shark numbers, and reveal the truth about this poorly understood fish group that occupies the sea in harmony with other living things. Current scientific research being done on sharks at the Bedford Institute of Oceanography will also be presented.

Come and join us on Thursday, 24 April 2003, for this enlightening and 'eye opening' seminar on the biology of sharks. See you there to learn about the shark's world! The lecture is at 7:30 pm, but there will be time available before (7:00-7:30 pm) and after the lecture (8:30-9:30 pm) to talk to Dr. Steve Campana, and ask specific and/or general questions about the biology and distribution of sharks.

For additional information call: Jackie Dale (phone: 466-2584; e-mail: jdale902@aol.com). There is a voluntary 'coin collection' of \$2.00 per person to offset the costs of the speaker's travel and refreshments (juice, tea, coffee and sweets).

**FOOD FOR
THOUGHT**

To make an apple pie from scratch, you must first invent the universe.

Carl Sagan (1934-1996, from a 1980 PBS science series.)

Failure is the condiment that gives success its flavour.

Truman Capote (1924-1984, from "The Dogs Bark", Random House, 1973)

Onion soup sustains. The process of making it is somewhat like the process of learning to love. It requires commitment, extraordinary effort, time, and will make you cry.

Ronni Lundy (from "The Seasoned Cook", Esquire magazine, 1984)

'Tis an old maxim in the schools,

That flattery's the food of fools;

Yet now and then your men of wit

Will condescend to take a bit.

Jonathan Swift (1667-1745, from "Cadenus and Vanessa")

And hie him home, at evening's close,

To sweet repast and calm repose.

Thomas Gray (1716-1771, from "Ode on the Pleasure Arising from Vicissitude")

CANAL DU MIDI TRIP-**September 2003***By Liz Mason*

We are no longer looking for more participants as all the boats based in Castelnaudry are booked, so we are a select group of 2 boats with 3 couples in each and are planning to have thoroughly enjoyable time.

News that Ryanair has reinstated its flights to the Languedoc and Carcassonne in particular is encouraging. They fly out of Stanstead and flights are Thurs £30, Fri £35 and Sat £55 (all one way). Ground transportation from Carcassonne to Castelnaudry should not be a problem --we will get more information from Crown Blue Line nearer the time.

CANAL DU MIDI SLIDE SHOW—Wednesday April 16th, 7:30 pm in the Needler Boardroom at BIO.

Don Gordon has kindly agreed to show the highlights of his trip some years ago with a selection from his 200 slides

ALL MEMBERS OF THE RETIREES ASSOCIATION ARE WELCOME.... no RSVP necessary. Please check in with front desk. Ask for directions for the Needler boardroom if necessary.

YOU KNOW IT'S 2003 WHEN...

1. Your reason for not staying in touch with family is because they do not have e-mail.
2. You have a list of 15 phone numbers to reach your family of three.
3. Your grandmother asks for a JPEG file of your newborn so she can create a screen saver.
4. You pull up in your own driveway and use your cell phone to see if anyone is home.
5. Every commercial on television has a web site address at the bottom of the screen.
6. You buy a computer and 3 months later it is out of date and sells for half the price you paid.
7. Realizing you left the house without your cell phone is now a cause for panic.

8. Using real money, instead of credit or debit, is a hassle and takes planning.
9. You just tried to enter your password on the microwave.
10. You consider second-day air delivery painfully slow.
11. Your dining room table is now your flat filing cabinet.
12. Your idea of being organized is using multi-coloured Post-It notes.
13. You hear most of your jokes via e-mail instead of in person.
14. You get an extra phone line so you can get phone calls.
15. You get up in the morning and go online before getting your coffee.
16. You wake up at 2 a.m. to go to the bathroom and check your E-mail on your way back to bed.
17. You start tilting your head sideways to smile.
:-)
18. You are reading this and nodding and laughing.
19. Even worse, you know exactly who you are going to forward this to by e-mail.

APHORISMS FOR OUR TIME

- Don't cry because it's over; smile because it happened.
- Living on Earth is expensive, but it does include a free trip around the sun every year.
- Some mistakes are too much fun to make only once.
- Birthdays are good for you; the more you have, the longer you live.
- If ignorance is bliss, why aren't more people happy.
- Happiness comes through doors you didn't even know you left open.
- Most of us go to our graves with our music still inside of us.
- How long a minute is depends on what side of the bathroom door you are on.
- Ever notice that the people who are late are usually much jollier than the people who have to wait for them.
- Deja Moo: The feeling that you've heard this bull before.

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.

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SEMINAR SERIES *	<i>vacant</i>	-	-
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* Proposed new position.