

BIO-OCEANS ASSOCIATION NEWSLETTER

Issue 38, April 2008

PASSING ON THE PRESIDENTIAL GAVEL

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A REMINDER

All are cordially invited to attend the

**Annual General Meeting
&
2008 Beluga Award presentation**

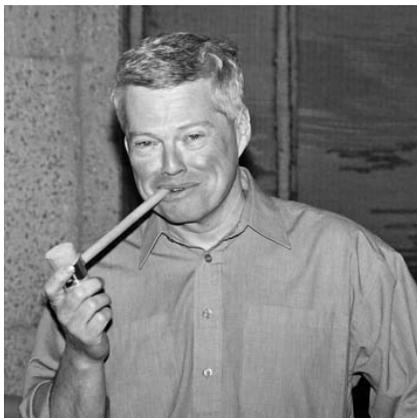
on Thursday, 8 May 2008,
beginning at 10 a.m. in the
Main BIO Auditorium.



↑ Above, outgoing President Betty Sutherland hands over the BIO-OA Presidential Gavel to Bob O'Boyle, our unsuspecting President-Elect...



← At left, she may be offering one suggestion for its possible use in closing off discussion at rowdy executive meetings.



← For his part, Bob seems to be hinting that gavels may be used in more innovative ways when the occasion warrants it.

To find out more of what Betty and Bob have up their sleeves, read their presidential musings on page 2...

FROM THE PRESIDENT

It's hard to believe that this is my last "From the President" column. The past two years have flown by very quickly. I have been very lucky during my presidency in having had such wonderful support from the other members of the Association's executive committee. I thank them all.

I would like to single out one person in particular. Dale Buckley has been chair of the Beluga Award Committee for many years. He is also a past president and was one of the individuals most involved in the formation of the Association 10 years ago – yes, this is our 10th anniversary. Dale is stepping down as chair as of the AGM in May and I want to say a special thanks to him for all his hard work over

the years. Moreover, Dale will continue to work with the executive on a new project. As you know, BIO turns 50 in 2012. The Executive Committee recently approved a suggestion by Dale to submit a proposal to Canada Post for a stamp to commemorate this significant anniversary. The Tuesday Club has given their approval to the proposal and work has begun to develop the case to be made to Canada Post and a design for the stamp itself. Dale has agreed to coordinate this effort.

Another new project in the works is a display depicting the role of HMCS Sackville as an oceanographic vessel. This follows an invitation from Ted Smith and Jim Keddy who represent the group responsible for maintaining the *Sackville*.

Carol and Keith Manchester and Don Peer will be spearheading this project.

I do hope that many of you will make an effort to attend the AGM on Thursday, 8 May, to say thank you to Dale in person and to be there when this year's Beluga Award is presented to Borden Chapman, long-time BIO staff member, who has served both as a ship's crew member and as a field technician of the Atlantic Geoscience Centre. An article about Borden's contributions appears elsewhere in this issue.

I now pass this column on to my successor, Bob O'Boyle. It's been a grand two years!

— Betty Sutherland

FROM THE PRESIDENT-ELECT

First, let me say how honoured I was when I was approached by the Association to be the Vice President over this past year. I have watched the Association grow over the years, and it is a very important part of the broader ocean-minded community in our part of the world. I will be taking over from the very capable Betty Sutherland whose shoes will be very hard to fill. My first 'official' task as the new president will be to truly thank Betty for all her hard work. Thank you, Betty! (And oh, by the way, could you stick around a bit to help me out when I get into a fix?)

Perhaps I should give you a little of my background. I know many of the Association members and I'm sure we have all passed in the halls at one time or another. After getting my Bachelor's degree in Science at McGill in 1972, I went to Guelph where I did my Masters. My academic study was biochemistry, a far cry from what I ended up doing at BIO. Before taking on a PhD, I decided to try out the private sector and constructed oil and gas reservoir models (using Fortran 66 on a Cyber!) during the days of Calgary's first energy boom. After a year, I

realized that I would need to get my 'iron' ring to progress up the ladder in that industry.

As luck would have it, I received a call from a colleague working at the Biological Station in St. Andrew's who told me that Canada was extending its coastal jurisdiction and needed modellers at BIO. I jumped onto a plane to Halifax and into my fisheries science career. That was 1977. I retired from DFO in October 2007 after just over 30 years of, well, basically, fun. It was a great experience and career of which I have fond memories. I started as a modeller on the Scotian Shelf finfish populations (haddock, cod, pollock, and so on), worked up through the chain of command as first a section head and then a division manager (the old Marine Fish Division) and ended my career wearing a number of hats, the main ones being the DFO Associate Director of Science and Coordinator of the DFO regional science peer review process. I also worked with Joni Henderson on BIO outreach programs.

Probably one of the most important aspects of my BIO experience was the

people that I worked with. What a truly professional organization that genuinely cared for the work that it is doing for the benefit of both Canadian society and the global oceans community. And, through the Association, I look forward to maintaining and building upon my contacts in the BIO community.

So where do I see the BIO Oceans Association going over my tenure? As one famous Canadian politician said 'I will lead my people where they want me to go'. The executive is very capable and has been doing a great job fostering a strong social network of BIOers and furthering the cause, through its many communications initiative, of oceans science both within BIO and the broader regional and national science community. I will provide continuity for the current initiatives and offer my ideas and suggestions for new ones. Above all, I intend to provide the Association with the great leadership that it has experienced in the past.

I look forward to seeing you at the AGM on 8 May 2008!

— Bob O'Boyle

CSS BAFFIN CRUISE TO MONACO – APRIL 1967

Don Gordon

This account describes a cruise from the early days of BIO when resources and opportunities were much more abundant. 1967 was Canada's centennial year and it was decided to send the CSS *Baffin* to Monaco to wave the flag at an international hydrographic conference. No science work was initially planned, but hydrographers from BIO and Ottawa, including Russ Melanson among others, would sail aboard and participate in the conference once in Monaco.

I was at Dalhousie University at the time working on my PhD thesis and needed to get to sea to collect deep samples of seawater. Gordon Riley, Director of the Institute of Oceanography at Dalhousie, got in touch with Bill Ford who agreed to make room on board for some Dalhousie personnel and allocated about 36 hours of station time on both the way over and back. Those who participated were Pete Wangersky, Roger Pocklington, Bob Cooke (chemical), and myself. We set up our sampling gear in the winch lab just under the bridge and made a lab for processing water samples in the aft lounge under the

helicopter deck. We also arranged to borrow Knudsen bottles and reversing thermometers from BIO.

At the end of March, the *Baffin* had gone down to the Imperial Oil refinery to bunker. To make full use of year-end money, the ship was filled to capacity with fuel oil, including its anti-roll flume tanks. We sailed on 5 April 1967 under the command of Paul Brick. A strong westerly wind was blowing and the ship was lying along the shoreline key parallel with the depot building at BIO. Because of her extensive superstructure and weak bow thruster, it was impossible for her to clear the key under her own power and a Foundation Maritime Ltd. tug had to be called to tow us out into the Narrows.

After clearing the harbour, we headed out into the open Atlantic. On the second day, we encountered a storm that forced us to reduce speed to just a few knots and to keep the seas on our bow. At the best of times, the *Baffin* was known for her pronounced roll, and this only grew worse when her flume tanks could not be used. Despite efforts



A North Atlantic storm as seen from the deck of the CSS Baffin in April 1967.

made to minimize the ship's motion, there was a lot of sea sickness aboard. Adding to our discomfort, the ship's heavy rolling forced fuel oil out through the overflow vents and it coated the decks and lower bulkheads. The decks became impassable and the stench of fuel oil was not appreciated by those 'under the weather'. Many tonnes of fuel oil must have been lost overboard thus creating an extensive slick astern. This of course took place before oil spills became a major concern. After the storm subsided, the crew worked many hours cleaning the decks and making them passable.

Once we could start working, we settled into a pleasant and civilized routine. We steamed eastward at the latitude of 42°N. Most mornings, the ship would stop on station at 0900 wherever we happened to be. We then conducted a deep-bottle cast using our 30-litre Niskin sampling bottles along with Knudsen bottles equipped with reversing thermometers (for depth correction) and a depth recorder on the bottom. Our bottles were spread over the entire water column so these casts took about 2.5 hours while the ship held station. Water was drawn and filtered as the bottles



Roger Pocklington and Bob Cooke putting a 30-litre Niskin sampling bottle on the wire.

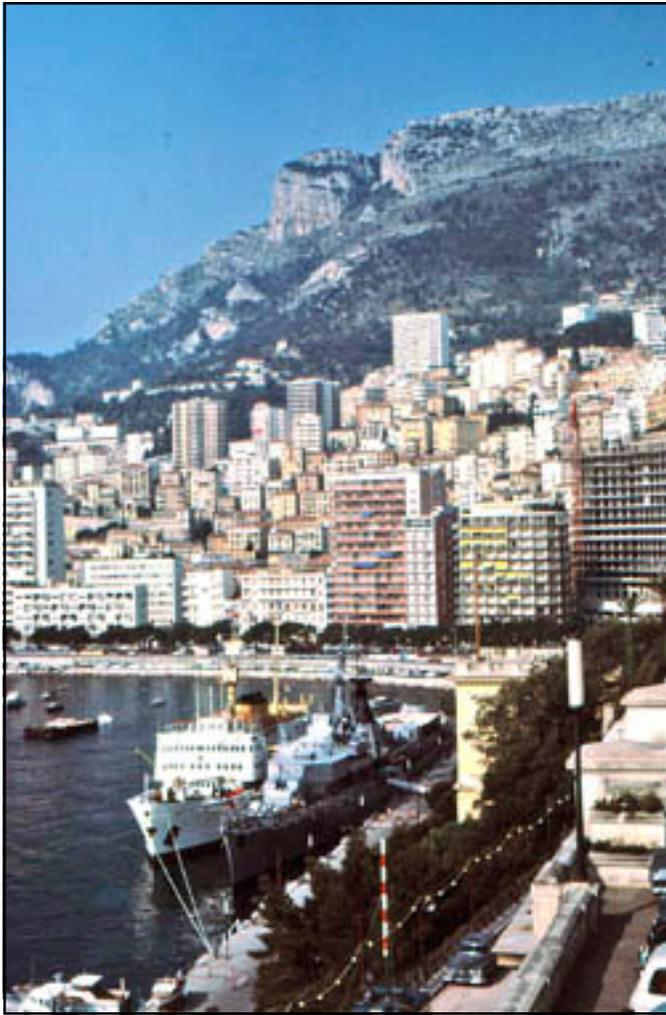
were retrieved and we were usually done working in the winch lab by noon. We also took numerous surface samples by bucket while underway. After lunch, we processed our samples back in the lab and were usually done at 1600.

This left us with a bit of free time before drinks and dinner. Back in those days, in addition to the bar in the lounge, there was also a duty-free issue of spirits once a week. The more formal dress code on BIO ships back then required jacket and ties for all meals. The *Baffin* also had separate dining rooms for officers and scientific staff. After dinner, it was usually fresh air on deck, reading, or watching NFB films in the helicopter hanger. No night watches were necessary.

We followed this daily routine on our way across until we came up on the European continental shelf. On the way, we passed the Azores and were able to see one of the islands at night. Our first European landfall was the coast of Spain near Cadiz. We had a beautiful view of the Rock of Gibraltar as we steamed through the Straits of Gibraltar into the Mediterranean Sea. The coast of Morocco was clearly visible to starboard as well.

Monaco is a beautiful port to enter with its high cliffs and picturesque architecture, especially after two weeks at sea. All staff were on deck in the fine weather to watch our arrival. The harbour is man-made with two large breakwaters across the mouth of an embayment along the steep shoreline. We tied up on the east side alongside a key smack in the centre of the downtown area. Cafes, bars and restaurants were just across the street and the casino was a short way up the hill. All the temptations of life were just a short walk away. As the largest ship in the harbour, we really stood out. Most other vessels were yachts.

The hydrographers on board now had to go to work by attending the hydrographic conference. However, almost every evening there was a reception of some kind on board, usually on the helicopter deck, to entertain hydrographers from other countries. Lots of drinks, lobster sandwiches, and other delicacies were served. Lots of uniforms from many countries were on display as well. However, our party from Dalhousie had no obligations while in port and we were free to roam as we wished. We did a lot of walking around Monaco and up in the hills behind and enjoyed the many beautiful gardens. We also visited the famous oceanographic museum, an imposing building built into the cliff along the shore, and the palace. One afternoon was spent at the home of Egbert Duursma, a Dutch chemical oceanographer working at the International Atomic Energy Commission (IAEC), enjoying



CSS Baffin tied up in Monaco.

drinks and the view of the Ligurian Sea from his balcony. I also visited the IAEC to meet Jasmine Kane and use her microscope to make sure my staining procedures were working properly. On one day, we rented a car and drove east into Italy where we stopped in the town of Imperia for a long and pleasant meal in a small restaurant. Most evenings, we patronized different restaurants in Monaco. All in all, it was an ideal port visit.

After about five days in Monaco, we departed on our return trip. One afternoon, soon after clearing the Straits of Gibraltar, an excited Roger Pocklington woke me from a nap to say there was a Hoopoe on board. I had no idea what a hoopoe was so I got up and went out on deck to see it. A Hoopoe is a large bird with a long curved dark bill and prominent black-tipped crest. They winter in Africa and migrate north in the spring to breed. They are not strong fliers and this one probably landed on board for a rest. The Hoopoe stayed with us and Roger tried to feed it, but was unsuccessful, and after a few days it died. We

placed it in a plastic bag and put it in the freezer.

Once we got back into deep water, we resumed our daily routine of a bottle cast in the morning and lab processing in the afternoon which we followed all the way back along the latitude of 38°N until we came up on the Scotian Shelf. We arrived back at BIO on 8 May 1967. It is always exciting to steam up Halifax Harbour, especially after having been away for six weeks. As we were offloading our gear at BIO, I suggested to Roger that we have a little fun with the dead Hoopoe. Hoopoes occur in Europe, Africa, and Southern Asia, and have never before been sighted in North America. And so that evening after dark, we drove over to Ian MacLaren's house in Halifax. He was a biology professor at Dalhousie and a keen birder (and still is). We laid the bird out on the grass beside the walkway leading up to his front door and fluffed up the crest. Soon after we departed, Ian discovered the hoopoe



A Hoopoe (*Upupa epops*) [photographed in November 2005 by Dhaval Momaya of India]. Reproduced by permission.

when he came home from a meeting. He recognized it immediately and got quite excited. The first sighting of a Hoopoe in North America! He then got suspicious when he realized that the hoopoe ended up on the lawn of one of the few people in Halifax who could recognize it. The following day, the hoax was admitted.

This was one of the best cruises I ever participated in. We steamed across the Atlantic, saw part of the Mediterranean Sea, and visited the exotic port of Monaco. The only time the ship stopped was for our own work and we never had to work at night. I was able to collect a set of samples which formed a major contribution to my PhD thesis on the composition and dynamics of non-living particulate organic matter in the deep ocean. I wish that such opportunities existed for graduate students today.



NOTEWORTHY READS: BOOK REVIEWS IN BRIEF

David N. Nettleship
Book Review Editor

The *Noteworthy Reads* section is an effort by 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 associates. Most books listed are available at local bookstores and public libraries. Book prices are regular retail in Canadian funds, but discounts of 20-30% are normally available on line at: e.g., amazon.ca or chapters.indigo.ca. Contributions of book reviews to 'Noteworthy Reads' are welcome – send via e-mail to David Nettleship: dnnlundy@navnet.net (phone: 902-826-2360).

SPECIAL PUBLICATION:

THE NORTHERN COD TRAGEDY

Rose, George. 2007. Cod: The Ecological History of the North Atlantic Fisheries. Breakwater Books Ltd., St. John's, NF. 592 pp. Hardcover, \$74.95 (ISBN 1550812251). – What a disturbing and sad story this volume tells: the history of the discovery and recent destruction of one of the richest fisheries the world has known. Author George Rose, head of fisheries conservation with the Fisheries and Marine Institute at Memorial University of Newfoundland and former fisheries research scientist with Canada's Department of Fisheries and Oceans, is the perfect person to tell this tale of human greed and devastation of an invaluable renewable resource and marine ecosystem. Rose takes the reader on a comprehensive and unparalleled journey into the marine sciences that starts with the creation of the Grand Banks of Newfoundland and its oceanography including the origins of northern cod and the food webs it is a part of. He then reviews the relationship between humans and fish spanning the usage of cod from the ancient races of Indians and Paleo-Eskimos through to modern aboriginals and the arrival of Europeans. Rose's account of human activities and their impacts on fishes from before 1800 when the affect was virtually nil through the 19th and early 20th centuries, on to the 1950s and 1960s is both gripping and revealing. Changes in fishery technologies and the associated increase in the efficiency of catching fish are detailed, as is the misconception by fisheries managers of the day, both

inside and outside Canada, that modern fishing techniques could never deplete a fishery. Trouble with the northern cod stocks was first detected in the 1950s, but these early warnings and those that followed went largely ignored until the 1980s, by which time it was too late to prevent the inevitable: the collapse of the cod stock. Rose shows how the over-harvesting of cod to near extinction through the second half of the 20th century combined with changes in water temperatures and other oceanic parameters spelled the demise of the northern cod. What a sad picture of events depicting the tragic loss of an irreplaceable fishery and the factors responsible, both politics and fisheries mismanagement. Can anything be learned from the experience? Rose is not optimistic, and argues strongly that climate change is the imminent enemy of any chance for recovery of the northern cod. As devastating a conclusion as that is, Rose has done us all an incredible service in producing this comprehensive and exhaustive analysis of a prolific fishery that went wrong and why. This book has a place on the shelf of every marine biologist and fisheries manager, and anyone with an interest in the conservation and health of the oceans.

GENERAL REVIEWS

SPRING & SUMMER READING LIST

For this issue only, here is an enlarged selection of candidate spring and summer reads for your consideration. These 2007 titles - briefly reviewed here for the first time – truly offer something for everyone!

Akerman, James R. and Robert W. Karrow, Jr. (eds.). 2007. Maps: Finding Our Place in the World. University of Chicago Press, Chicago, IL. 400 pp. Hardcover, \$56.00 (ISBN 0226010759). – Maps are a universal form of communication. With more than 180 examples dating from an Egyptian map drawn on papyrus around 1160 BC to those produced today with special technologies, this book introduces readers to the widest range of maps ever put between the covers of a single book. The collection presented spans continents and centuries, that together also reveal cultural differences and human bias and development. A gripping and lavish exhibit of maps and their historic importance.

Armitage, Doreen. 2007. Tales from the Galley: Stories of the Working Waterfront. Harbour Publishing, Madeira Park, BC. 208 pp. Hardcover, \$39.95 (ISBN 155017438X). -- Here is a collection of "salty tales" collected by the author from a varied group of men that earn

their living from the sea. The stories are told in their own voices and provide great insight into their lives and occupations. The intriguing b&w photo illustrations depicting commercial fishing operations, commercial divers, life on drilling rigs, the work of coastal pilot boats and tugboats, as well as the coast guard, add vigor to the mariners' accounts and highlights the nautical realm.

Boileau, John. 2007. Where the Water Meets the Land: The Story of the Halifax Harbour Waterfront. Saltscapes, Dartmouth, NS. 80 pp. Softcover, \$17.95 (ISBN 0973883022). – This immensely readable look at the Halifax Harbour by John Boileau spans its historical beginnings, the Halifax Explosion, the destruction of Africville, right to the creation of the Waterfront Development Corporation Limited in 1976 and the many new initiatives planned for the future. Together, the text and illustrations underline how the waterfront dominates and enhances the city of Halifax as a whole.

Braasch, Gary. 2007. Earth Under Fire: How Global Warming Is Changing the World. University of California Press, Berkeley, CA. 295 pp. Hardcover, \$34.95 (ISBN 0520244389). – Few books on this difficult topic succeed in spelling out the greatest challenge in human history, global climate change. But Gary Braasch, an accomplished author and photographer, manages to produce a unique overview by merging text and images to vividly demonstrate climate change and its ramifications to humankind.

Brown, Paul. 2007. Global Warning: The Last Chance for Change. Reader's Digest, Montreal, QE. 319 pp. Hardcover, \$39.95 (ISBN 0762108762). -- Perhaps an inconvenient truth to some naysayers, but climate change is a fact of life. According to environment writer Paul Brown, the global economy and civilization as we know it may soon collapse if greenhouse-gas emissions remain uncontrolled. His use of stunning colour photographs showing the already existing destructive effects of human activities on the planet combined with his explanation of the science of global warming is most persuasive. Brown concludes that action must be taken to reverse the ravages of climate change, and that the technology, expertise and financial backing to do so already exists, only the political will is lacking.

Capra, Fritjof. 2007. The Science of Leonardo: Inside the Mind of the Great Genius of the Renaissance. Doubleday, NY. 329 pp. Hardcover, \$34.00 (ISBN 0385513909). – A brilliant and sound assessment of Leonardo da Vinci's approach to science and the ensuing incredible results obtained – truly a magnificent and end-

lessly fascinating review. Capra succeeds in portraying Leonardo as one of the greatest geniuses in history and the unsung father of modern science. A captivating and informative read!

Gilpin, Daniel. 2007. Spirit of the Ocean: Discover the Beauty of our Underwater World. Parragon Publishing, Bath, UK. 256 pp. Hardcover, \$19.99 (ISBN 1405486740). – A pictorial overview of the oceans of the world, broken down into five chapters: "Where Land Meets Sea", "Coastal Water", "The Open Ocean", "The Deep", and "Polar Seas". Overall, a visual treat with an accompanying text that provides a fascinating glimpse of a beautiful and largely unknown environment.

Hanrahan, Maura. 2007. Alphabet Fleet: The Pride of the Newfoundland Coastal Service. Flanker Press, St. John's, NL. 240 pp. Softcover, \$19.95 (ISBN 1897317198). – A history of Newfoundland's famous coastal boats by the author of the national bestseller "Tsunami: The Newfoundland Tidal Wave Disaster". This latest book by Hanrahan celebrates the fleet of 12 vessels created in 1898, appropriately named the "Alphabet Fleet" owing to their names from 'Argyle' to 'Meigle', through crew and passenger recollections along with gleanings from the historic record of the heroics and disasters experienced by the vessels. The fleet was beloved by the people and formed the lifeline for many coastal communities.

Heinrich, Bernd. 2007. The Snoring Bird: My Family's Journey Through a Century of Biology. ECCO Press (HarperCollins Canada), Toronto, ON. 461 pp. Hardcover, \$37.95 (ISBN 0060742157). – From Bernd Heinrich, prolific bestselling author (e.g., 'Winter World') and scientist (e.g., 'Bumblebee Economics'), comes this remarkable memoir that reveals his relationship with his father, an "old-school" naturalist who specialized in wasps, and how that exposure moulded him into becoming a "modern, experimental biologist with a naturalist's sensibilities." An awe-inspiring expose by a gifted science disseminator and writer.

Hunter, Douglas. 2007. God's Mercies: Rivalry, Betrayal and the Dream of Discovery. Doubleday Canada, Toronto, ON. 432 pp. Hardcover, \$34.95 (ISBN 0385660588). – Here is a page-turning journey into the lives and curiously intertwined fates, and rivalry, of Henry Hudson and Samuel de Champlain. Overall, this scholarly work by Douglas Hunter turns the history of two of the greatest explorers of the 17th century into a gripping adventure mystery, filled with intrigue, deceit, dishonour, mutiny and death, as well as the uncovering of

the possible fates of Hudson, his teenage son John, and their loyal crew members. A fascinating and thought-provoking read!

Huxley, Robert (ed.). 2007. *The Great Naturalists*. Thames & Hudson, London, UK. 304 pp. Hardcover, \$50.00 (ISBN 0500251393). – Historian and environmentalist Robert Huxley has produced a beautifully illustrated book that tells us the story of the development of ideas about natural history as seen through the lives, observations and discoveries of nearly forty naturalists, from classical times to the end of the 19th century, along with 198 illustrations. From Aristotle and Carl Linnaeus to Darwin, this book reveals how the science of natural history emerged and gave rise to today's highly specialized scientific pursuits. A must read for all.

Isaacson, Walter. 2007. *Einstein: His Life and Universe*. Simon and Schuster, New York, NY. 675 pp. Hardcover, \$39.00 (ISBN 0743264738). – Here is a comprehensive and readable biography by acclaimed biographer Isaacson. His skills as talented researcher and writer come through in this comprehensive review of Albert Einstein's life and immeasurable contribution to 20th century science. Material from a recently unsealed collection (cache) of personal letters are included making this work one of the most up-to-date and thorough examinations of Einstein's life.

Jenkins, Phil. 2007. *Beneath My Feet: The Memoirs of George Mercer Dawson*. McClelland and Stewart, Toronto, ON. 368 pp. Hardcover, \$34.99 (ISBN 0771043880). – George Dawson is a giant in both Canadian history and science. He joined the Geological Survey of Canada in 1875, already a versatile and highly-respected scientist, and became its director in 1895. His explorations of Canada's north-west including northern British Columbia and the Yukon were amazing achievements, as were his incidental studies of the languages and cultures of North American Indians. Although a prolific writer, Dawson failed to write his memoirs and so, this work by Phil Jenkins to compile and edit Dawson's unpublished journals, letters, and notes fills a much-needed gap in our knowledge of this remarkable Canadian.

Mustard, Alex. 2007. *Reefs Revealed*. Constable, London, UK. 192 pp. Hardcover, \$60.95 (ISBN 1845296346). – The amazing and fascinating reefs! You've seen them before, but never like this. Alex Mustard takes a look at the coral reefs of the world through revolutionary natural-light filter photography. An exciting and stimulating expose of both the beauty of reefs and the techniques used to display them.

Raffan, James. 2007. *Emperor of the North: Sir George Simpson and the Remarkable Story of the Hudson's Bay Company*. HarperCollins Canada, Toronto, ON. 484 pp. Hardcover, \$34.95 (ISBN 0002007835). – A must read for 'Hudson's Bay Company' fans that shows the complex make-up of George Simpson, the ruthless and autocratic governor of Rupert's Land from 1820 to his death in 1860. Raffan portrays Simpson as a brilliant 'chief executive officer' and explorer, responsible for the incredible growth and richness of the Company and its imperialist monopoly, but at considerable cost to his personal relationships. Well researched and written, with numerous maps and archival photographs, this latest biography of Canada's "Emperor of the North" is a welcomed addition for history buffs and armchair adventurers.

Richard, Bryan, Sarah Richayzen and Joan Barker. 2007. *Ocean: Revealing the Secrets of the Deep*. Parragon Publishing, Bath, UK. 320 pp. Hardcover, \$20.00 (ISBN 1405487909). – The authors take on the difficult task of reviewing the principal components of the world's oceans by dividing the material into four parts: "The Giver of Life", "Ocean Dynamics", "Life in the Oceans", and "Man and the Oceans". The result is most interesting and informative.

Robertson, Heather. 2007. *Measuring Mother Earth: How Joe the Kid Became Tyrrell of the North*. McClelland & Stewart, Toronto, ON. 360 pp. Hardcover, \$34.99 (ISBN 0771075391). – Heather Robertson has taken the great, but little known Canadian explorer, Joseph Tyrrell (1858-1957), and made his life appear as it doubtlessly was: exciting and awe-inspiring. Tyrrell, first a geologist and cartographer with the Geological Survey of Canada, and then prospector, traversed the West in the footsteps of Samuel Hearne and David Thompson making numerous discoveries such as the dinosaur beds of southern Alberta. He lived a long life, became the prototype of the romantic hero-explorer, and capitalized on the notion of the "Romance of the North". Robertson has given us an excellent Canadian historical biography to enjoy and treasure.

Starosta, Paul and Jacques Senders. 2007. *Shells*. Firefly Books, Buffalo, NY. 382 pp. Hardcover, \$85.00 (ISBN 1554073219). – A photographic feast showing the extraordinary variety and splendor of Jacques and Rita Senders' shell collection photographed by Paul Starosta to create an experience of unsurpassed beauty. "Shells" is an elegant tribute to the mysterious and intriguing treasures of the sea, comprising over 300 stunning colour photographs of mollusks collected over a period of 50 years

from all the oceans of the world. Apart from the moving beauty of the subjects, the book also covers the nature of shells and the intrepid animals that create them, their scientific classification, and the history of the human fascination with shells from Aristotle to the latest scientific research.

Stewart, Paul D. 2007. Galapagos: The Islands that Changed the World. Yale University Press, New Haven, CT. 240 pp. Softcover, \$29.95 (ISBN 0300122305). – Here is the definitive single volume on the Galapagos Islands that eco-tourists and readers from all walks of life have been waiting to appear. Stewart provides an enjoyable and complete overview of the islands -- a great introduction to a most important place. Read, enjoy, and go!

Stewart, Robert. 2007. Sharkwater: An Odyssey to Save the Planet. Key Porter Books, Toronto, ON. 216 pp. Hardcover, \$45.00 (ISBN 1552639711). – Canadian photographer Rob Stewart has produced this striking printed book as a companion to his earlier successful documentary of the same name. The message of human greed and our reckless overexploitation of the living world with little regard of consequences come through loud and clear. The photos with accompanying text form a clear indictment of our disregard for the health of the oceans and for the future of mankind. Stewart, after showing and telling us of our barbarous activities, does offer some hope for the future if we act promptly.

Titlow, Budd. 2007. Seashells: Jewels from the Ocean. Voyageur Press, Stillwater, MN. 112 pp. Hardcover, \$24.00 (ISBN 0760325936). – Photographer and wetland scientist Titlow has assembled a stunning collection of colour photographs show-casing these “jewels from the ocean” to illustrate a comprehensive look at how seashells are formed, where they are found and their ties to human history. The book also offers tips for shell collectors, in-

cluding best sites in North America, and a chapter on how seashells function as the environmental “canaries” of the ocean.

Turner, Chris. 2007. The Geography of Hope: A Tour of the World We Need. Random House Canada, Toronto, ON. 480 pp. Hardcover, \$34.95 (ISBN 0679314652). – Here is an accounting by acclaimed writer and journalist Chris Turner of the possibility for a sustainable future by mankind. Confronted with visions of environmental catastrophes with no solutions, Turner undertook a survey of actions already being taken by some communities and countries around the world including Asia, Europe, and the Americas to uncover and assess possible beacons of hope. He discovered an abundance of evidence to make a strong case of hope for humanity. Clearly, sustainable living can be achieved if we alter our wasteful and dangerous practices and adopt a more environmentally-friendly approach to our use of the planet’s resources. Turner does succeed in giving us a glimmer of hope through his first-person exploration.

Watkins, Peter and Jonathan Stockland. 2007. Winged Wonders: A Celebration of Birds in Human History. Bluebridge Publishing, New York, NY. 224 pp. Hardcover, \$26.00 (ISBN 1933346078). – This is a book that will charm and captivate anyone with an interest in birds. The collection of avian miscellany shows how birds have long figured in art, legend and language, and goes on to celebrate their starring roles in human interaction featuring some of the world’s best-known birds including eagles, falcons and owls, robins and sparrows, pelicans and swans, and doves. The authors, both avid birdwatchers, conclude their exploration of avian-human relations with three short chapters on famous bird illustrators, state birds, and bird song. A beautiful and engaging book.

REMEMBERING CSS DAWSON

The following is reproduced with permission from the 11 February 2008, volume XXI, No.3 issue of Shipfax “a monthly newsletter about ships and shipping from the port of Halifax and beyond.”

11 February 1968 — The brand new survey vessel CSS *Dawson* arrived on her delivery trip from the Geo. T. Davie yard in Lunenburg on 13 November 1967. Capt. Moran Wagner says the ship experienced some very bad weather en route, delaying them by a day, but that the ship performed very well. It will now undergo dockside testing for a few weeks before conducting scientific trials.

[*Dawson* worked out of the Bedford Institute until 1991 when



Dawson in St. John's, Newfoundland, 22 October 1991.

she was decommissioned. In 1992 she was renamed *1992-01* and sold. She was then laid up in Lunenburg until resold to US owners in 1996. She sailed December 1996 for Florida.]

FROM THE ARCHIVES 37 YEARS AGO – 1971

Compiled by Bosko Loncarevic

[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.]

{January 1972. Vol. 6, No. 1} The official appointment of Dr. B. D. Loncarevic as Director, Atlantic Geoscience Centre, is made public by Mr. J. Austin, Deputy Minister, Department of Energy, Mines and Resources. – Visitors are hosted from Ottawa, the USA (ONR), and Paris. – The Library announces that layout changes are almost complete and a photocopier has been installed for the convenience of library users. – Dr. Willem J. M. van der Linden joins Marine Geophysics of AGC. – Edward “Ted” Smith is appointed Regional Marine Superintendent; Florence MacKinnon joins MEL; Freeman Keyte is seconded to serve a term of 2 - 4 years as a Staff Officer in Ottawa.

{February, 1972, Vol. 6, No.2} The news from the Navigation Group is that the Institute will shortly own a rho-rho Loran-C receiver. This new receiver includes an atomic clock. – Bill Sutcliffe and Mike Bowers visited Dr. Jim Marlowe during a recent trip to Miami, Florida. Jim specifically asked to be remembered to all his friends at the Institute. – S. D. Smith is appointed as head of the Air-Sea Interaction Group, Metrology Division, A.O.L. – As part of AIDJEX (Arctic Ice Dynamics Joint Experiment), E.

Banke, M. Thorpe, and C. S. Mason will spend several weeks at the various AIDJEX camps, some 300 miles northeast of Point Barrow, Alaska. – Six representatives from the Institute are attending the 2nd OCEANOLOGY INTERNATIONAL Conference at Brighton, England, March 19 - 24 - J. Brooke, D. L. McKeown and A. S. Bennett of Metrology; N. S. Oakey of Ocean Circulation; S. B. MacPhee and R. G. Mills of Engineering Services.

{March – June, 1972, Vol. 6, No.3} Mrs. Joan Sim recommends 3 campsites for a “peaceful weekend”. – Both CSS *Dawson* and CSS *Hudson* were involved in Search and Rescue missions during May. CSS *Hudson* rescued all 7 survivors of the burning longliner *Nancy Eileen* on May 9, 1972. – Seven weekly reports from CSS *Hudson* working with CIROLANA and CHAIN, mooring current meters off the Grand Banks. – Seven weekly reports from CSS *Baffin* surveying Grand Banks. – Also reports from *Mina* (Charter) *Kapuskasing*, *Dawson* and *Maxwell*. – Long Report by L.H. King and R. Haworth of geoscience cruise on the Grand Banks - New staff at EPG were Iris Newman, Gary Grant, John Wade, and Darrel Hardy. – New parking regulations promulgated. – Long report on Hydrography by R. C. Melanson. – From Metrology: Ted Phillips married; Don Knox’s wife gives birth to their second son; Ted Bendell is back as a summer student. – High power Marine technology mission from Germany visited BIO. – Some 60 summer students are employed (many later return as staff). – Other new “citizens”: sons to J. Bowers and D.F. Dinn and a daughter to S.B. MacPhee.

CALL FOR INFORMATION ON HMCS SACKVILLE

Keith and Carol Manchester as well as Don Peer are helping the Canadian Naval Memorial Trust (CNMT) in the hunt for information on Canada’s last corvette, the HMCS *Sackville*, that can be included in the growing historical database on the ship’s history and for publication on the *Sackville* web site at www.hmcssackville-cnmt.ns.ca.

The particular focus of this effort is on the oceanographic history of the ship. Old photographs with a description of their content, stories and anecdotes on the ship’s past, and any other information on the ship would be most welcome. Please take the time to dig through your old records to locate these important historical mementos.

Keith, Carol, and Don hope to complete this project by the fall and they welcome your input. Please feel free to contact them:

- ◆ by phone at 861-3509 or
- ◆ via e-mail at k.manchester@ns.sympatico.ca.

BORDEN CHAPMAN: RECIPIENT OF THE 2008 BELUGA AWARD

The 2008 Beluga Award of the BIO Oceans Association goes to **Borden Chapman** in recognition of an outstanding career at the Bedford Institute of Oceanography. He has served on land and at sea, both as a ship's crew member and as a field technician of the Atlantic Geoscience Centre (AGC), for over 30 years.

Born in Montreal, his family soon moved to their ancestral town of Amherst, NS, when his father returned to manage his grandfather's department store there. He completed his schooling in Amherst and attended Mount Allison University in pre-engineering. At this point he decided that pure academic training was not for him as he preferred more hands-on activities. While in high school, Borden had a small hobby-business repairing televisions for townspeople. This was quite profitable. When his father wanted him to begin work in the family department store on Saturdays, Borden responded that he could make more money repairing television sets. After leaving Mount Allison he worked for one year as a factory service representative for Zenith Radio Corporation, at the time one of the largest manufacturers of consumer electronics.

Realizing the requirement for more formal education, he enrolled in 1974 at the Nova Scotia Institute of Technology (NSIT) in Electronic Engineering Technology. By a fortunate coincidence, he was hired by AGC as a COSEP summer student in 1975 and spent two months on the *CSS Hudson* thus introducing him to his lifelong career as a seagoing field technician. Upon graduation from the NSIT, he started his career with AGC as a term electronic technician. At the time, person-year resources were severely restricted at AGC and Borden had to transfer to a position as an electrical officer on



the *CSS Hudson*. Two years on *Hudson* gave him valuable experience working with high voltage electrical equipment as well as large mechanical machinery. After a year as a term employee with AGC, he accepted a position at Eastern Provincial Airways (EPA) maintaining their Boeing 737 flight simulator at the Halifax airport. As soon as he started there, he realized his mistake and let AGC know that he would come back at any time there was a position available. Meantime, he completed ground school training and basic flight training on the Boeing 737 jet.

Borden was the successful candidate for a permanent position when it became available at AGC in early 1980. From 1978 to 1981, he served a two-year term as Vice President of the Society of Certified Engineering Technicians and Technologists of Nova Scotia. Also, he taught Adult Continuing Education classes at NSIT in basic electronics and television theory and repair, as well as a semester at NSIT for the HMSC Electronic Apprentice Program and as a substitute instructor for the course "Fundamentals of Semiconductor Theory". His work with students and young technicians is well known. He has been an outstanding mentor in the true sense of that word, guiding many in their acquisition of valuable practical experience. Borden is a loyal and ever-helpful friend well known to many BIO staffers for saving their aged stereos and TVs from a premature trip to a recycling depot.

Borden Chapman has an almost instinctive feeling for how machines and instru-

ments should work. Whereas most of us learned new technology in our early thirties and then coasted on that knowledge to the end of our careers, Borden has an uncanny ability to learn new things and keep his skills at the leading edge of technology. If something needs fixing, Borden can do it. BIO has greatly benefited from his talents. In the words of one senior scientist "he designed a seismic acquisition system that has been particularly successful in acquiring data in the Arctic Ocean where many other systems have failed. The success of the equipment is a significant factor in other countries wishing to work with Canada. I would not consider going to sea without Borden onboard."

Various testimonials were received during the preparation of Borden's Beluga Award nomination. An excerpt from one of these perhaps best characterizes Borden as a valuable member of the BIO community:

"I have always looked forward to going to sea with him as he exemplifies the ideal field technician. He is equally proficient with both mechanical and electronic equipment no matter how complex or temperamental it may be. He is always willing to help others to the point where it seems as though you are doing him a favour by letting him help you rather than vice versa. He is calm under pressure and has a wicked sense of understated humour that is never mean or unkind. He is always thoughtful and considerate of others. Anyone who has ever gone to sea on a scientific research cruise will appreciate how important these characteristics are. Fortunately for all of us at BIO, Borden exhibits these same sterling characteristics when he is ashore."

Another scientist, not from AGC, stated that "he is a vital part of the seagoing culture at BIO and exemplifies unselfish effort that encourages cooperation and fosters teamwork."

In every respect, Borden Chapman is a worthy recipient of the Beluga Award.



CHURCH BULLETIN BLOOPERS

- ◆ The youth group has raised almost \$500 for drug abuse.
- ◆ "Correction: The following typo appeared in our last bulletin: "Lunch will be gin at 2:15." Please correct this to read 12 noon. "
- ◆ Any church member over the age of 18 is invited to participate in this lay ministry program. It requires a minimal amount of training and time. The orientation will include six weekly classes of about 200 hours each Tuesday night.
- ◆ The Seniors group will have a picnic Saturday. Each person is asked to bring a friend, a vegetable, or dessert in a covered dish. Meat and drinks will be furnished.
- ◆ The last day of Vacation Bible School will include a field trip to the game farm. We could use some additional volunteers to help in preparing the lunch of sandwiches, potato chips, cheese, crack, and cool aid that morning.

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 \$10.00 per year, \$40.00 per half decade, or \$150.00 for a lifetime membership.

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