

# BIO-OCEANS ASSOCIATION NEWSLETTER

Issue 45

January 2010

## From the President

There are lots of activities and events to report on since our last newsletter was published. A highlight is the fortieth anniversary celebration of the Hudson-70 Expedition held at Bedford Institute of Oceanography (BIO) on 16 – 19 November 2009. What an event this was! Peter Wadhams kicked things off with a public lecture on the evening of 16 November based on his newly published book, "The Great Ocean of Truth", which chronicles the full Hudson-70 Expedition: the book is reviewed in this issue's Noteworthy Reads (see page 2). The opening ceremony on 17 November was very well planned and executed – special thanks to Claudia Currie, Garry Sonnichsen, and the large crew of volunteers who made it the success that it was. Peter Vass, Jackie Dale, and I staffed the BIO - Oceans Association table on that day. A great series of lectures on the Hudson-70 Expedition was presented in BIO's Main auditorium on 18 November. Read all about the celebration and view photographs in Charles Schafer's summary article beginning on page 5.

"Full Circle" by Don Gordon (p. 9) is about an intriguing ocean exhibit at an art centre in New York State far from the ocean. Next up is an update on DFO's vessel acquisition plans by Don Belliveau and, on the same page, member Bill Silvert extends an invitation for members to visit him in Portugal and encourages us to travel there.

On the social front, the Association's fall wine tour to the Annapolis Valley was by all reports a great success and definitely a potential for a future repeat performance: check out the report and photos on page 11. Options for a sequel to this well-attended event in June 2010 are now being investigated. In February 2010, Professor and author Eric Mills has agreed to present a seminar to our Association based on his recently published book on the history of oceanography.

After 10 years as Editor, Michael Latrémouille, is stepping down after the publication of this issue. I can't over-emphasize his valuable contribution to the Association in his editor-in-chief role. I speak for all in the Association in offering our thanks for a job well done. Andrew Sherin has agreed to become the new editor-in-chief as of the April 2010 issue. Welcome aboard, Andy! Mike and others on the Executive Committee are working with Andy to ensure a smooth transition.

On a sadder note, included in this issue are in-memoriam notices for Ced Mann, Stephen Nolan, John Palmer, Betty Tillman, and Ken Williams. We extend our sincere condolences to their families.

I wish everyone a wonderful winter and a happy new year!

—Bob O'Boyle



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## NOTEWORTHY READS: BOOK REVIEWS IN BRIEF

*David N. Nettleship*

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:

#### WONDERS OF THE PAST: HUDSON ’70 REVISITED

**Wadhams, Peter. 2009. *The Great Ocean of Truth: Memories of “Hudson-70”, the first circumnavigation of the Americas.*** Melrose Books, Cambridge, England, UK. 378 pp. Softcover, \$30.00 (ISBN 978-1907040306; available from Amazon, BIO Gift Shop (Claudia Currie), or the author: 40 Grafton St., Cambridge CB1 1DS, England, UK; e-mail: p.wadhams@damtp.cam.ac.uk). – Here is a thorough and lively personal account of the Hudson-70 Expedition by Peter Wadhams, senior scientist and author of “Ice in the Ocean” (2000), one of its youngest scientists at the time of the cruise and one of the very few people that remained aboard ship for the complete 11-month voyage from 19 November 1969 to 15 October 1970, covering about 100,000 km. Organized into 23 chapters that retrace the ship’s track, the author gives us interesting and easy-to-follow descriptions of the oceanographic work performed and instruments used, introductions to the constantly shifting cast of scientists and technicians who join various legs of the famous voyage, and a picture of daily life aboard ship (a 17-page portfolio of photographs is also included). This overview includes introducing us to various members of the ship’s crew and officers with whom he interacts. Not to be missed are the descriptions of shore leaves and excursions that he and friends experience when Hudson comes into port in Brazil, Argentina, Chile, Tahiti, and British Columbia. In the final chapter, the author looks back on Hudson-70 as a formative influence in his life and at what has happened to him and some of his closest friends since that voyage 40 years ago. This book should be on the shelf of anyone interested in the history of Canadian oceanography. (Michael Latrémouille)

### GENERAL REVIEWS

**Bortolotti, Dan. 2009. *Wild Blue: A Natural History of the World’s Largest Animal.*** Thomas Allen Publishers, Toronto, ON. 315 pp. Softcover, \$26.95 (ISBN 978-0887623301). – Dan Bortolotti, Canadian journalist and science writer, introduces us to one of the most magnificent creatures to evolve in the world’s oceans – the Blue Whale – the largest and longest animal inhabiting earth, reaching 100 feet in length and a weight of 200 tons. In a smooth writing style, Bortolotti delivers a detailed history and summary of current knowledge of the Blue Whale based on extensive research, a careful synthesis of existing information, and interviews of leading whale experts. All aspects are covered including the history of whaling, management, biology, food and feeding, migratory movements and vocalizations, each subject reviewed in a concise and engaging manner. Most important is the clear message of how human greed and technological ingenuity has almost annihilated the planet’s largest animal through reckless exploitation and what needs to be done to conserve and protect the small numbers that remain. “Wild Blue” stands as the first comprehensive portrait of the Blue Whale and will remain the definitive work on this magnificent whale for a long time to come.

**Crist, Darlene Trew, Gail Scowcroft and James M. Harding, Jr. 2009. *World Ocean Census: A Global Survey of Marine Life.*** Firefly, Buffalo, NY. 256 pp. Hardcover, \$40.00 (ISBN 978-1554074341). – In the year 2000, the “Census of Marine Life” was launched by two-thousand scientists from 82 nations to address and answer three critical questions about life in the world’s oceans: past and present life forms, and projections into the future. Although the global ocean represents 71 percent of earth’s surface, it comprises 99 percent of the biosphere of which only 5 percent has been seen. The nature of the task to produce an inventory of current marine life by 2010 was formidable, perhaps impossible given the fact that while a quarter of a million marine species were known, estimates of the unknown species ranged from one to one-hundred million. Without question a daunting goal, but one of critical importance to the future welfare of all living things – marine and terrestrial – on the planet including man. “World Ocean Census” shows what can be accomplished to better understand biodiversity and the natural systems that make life possible. The authors present a text that is informative, comprehensive and current along with outstanding illustrations that detail the most exciting findings and discoveries made over the last decade. Perhaps Sylvia Earle best describes the immense value of this work in the Foreword when she writes: “A distillation of their Herculean

decade of exploration is contained here, magnificently illustrated and eloquently written by the authors and contributors.” This book vividly catalogues achievements and gains in knowledge made, and what remains to be discovered and explored. A must read for anyone interested in ocean biodiversity and the future of life on Earth!

**De Roy, Tui (ed.). Galápagos: Preserving Darwin’s Legacy.** Firefly Books, Buffalo, NY. 240 pp. Hardcover, \$49.95 (ISBN 978-1554074846). – There is no better way to celebrate the 150<sup>th</sup> anniversary of the publication of Charles Darwin’s “On the Origin of Species” and the 200<sup>th</sup> anniversary of his birth than to immerse oneself in this magnificent book assembled by Tui De Roy and the 28 natural science essays written by the world’s leading Galápagos scientists, researchers and conservation experts. Conceived in 2007 as part of the Darwin celebration and the 50<sup>th</sup> anniversary of the establishment of the Galápagos National Park and the International Charles Darwin Foundation, this lavishly illustrated book, using stunning photographs taken by De Roy, is the official publication for these important milestones. Clearly, it also re-affirms the Galápagos Archipelago as a unique showcase of biological evolution in action and underlines the importance of preserving and protecting its flora and fauna. The conservation need is now as combined pressure from tourism, a growing resident population, and expanding fisheries has resulted in the Galápagos being placed on UNESCO’s “List of World Heritage Sites in Danger”. The essays presented are, without exception, insightful and fascinating, vividly showing the beauty and uniqueness of the Galápagos ecosystem and the pathway to success in “Preserving Darwin’s Legacy”. This is a volume to view and read, re-read and cherish!

**Gibson, Merritt and Soren Bondrup-Nielsen. 2008. Winter Nature: Common Mammals, Birds, Trees and Shrubs of the Maritimes.** Gaspereau Press, Kentville, NS. 223 pp. Softcover, \$27.95 (ISBN 978-1554470594). – This book by well known Maritime biologist and naturalist Merritt Gibson is an expanded and updated edition of his earlier “Winter Nature Notes for Nova Scotians” first published in 1980. The addition of Soren Bondrup-Nielsen, specialist on mammals and winter ecology, resulted in an expansion in coverage to include all the Maritime Provinces, not just Nova Scotia, a major revision of the section on mammals, additional information on adaptations by plants and animals for surviving winter, and the inclusion of 25 more species of both birds and trees. The abundant illustrations by Twila Robar-DeCoste are pleasing and instructive, as they were in the first edition. The enthusiasm of the authors for the outdoors during the winter months

permeates each page making the work an exciting read whether using it simply as a guide to the identification of mammals, birds, trees and shrubs encountered during winter walks and excursions or as a reference source to better understand key environmental parameters – such as temperature, sunlight, snow – that influence species abundance and activities. Suggestions for winter activities are given along with tips to ease the identification of species, along with a list of reference guides for more detailed information. Overall, this introductory field guide to Maritime natural history in winter will prove indispensable to winter outdoor enthusiasts and enhance environmental awareness.

**Lane, Nick. 2009. Life Ascending: The Ten Great Inventions of Evolution.** W.W. Norton, New York, NY. 344 pp. Hardcover, \$35.00 (ISBN 978-0393065961). – Here is a stimulating review of cutting edge scientific findings to construct the mosaic of life’s astounding history. In chronological order of the happenings, this well organized and easy to read text is structured into ten chapters whose titles are self-explanatory: origin of life, DNA, photosynthesis, complex cell, sex, movement, sight, hot blood, consciousness, and death. Author Lane, a biochemist at University College, London, England, not only succeeds admirably in providing a thorough review of each of the ten principal (characteristics) facets of life derived from the evolutionary process, but by doing so also presents a complete and exciting introduction to biology. Overall, “Life Ascending” is a fascinating and intellectual experience!

**Launer, Donald. 2009. Navigation through the Ages.** Sheridan House, Dobbs Ferry, NY. 224 pp. Softcover, \$23.95 (ISBN 978-1574092783). – Master mariner and captain Donald Launer, contributing editor of “Good Old Boat” and author of “Dictionary of Nautical Acronyms and Abbreviations”, traces the development of the art (and science) of navigation by discussing the navigational tools invented by each age and civilization covering thousands of years. In a concise and comprehensive manner, he takes us through the evolution of navigational technology from the Kamal of the Arabs and the lead-line first used by the Romans (a technique still used today) to the sophisticated radio and satellite communication devices that make navigation much easier for today’s mariners. The well designed use of abundant illustrations enhances the reader’s ability to envision the tools used in past and present times to aid navigation, and shows the incredible growth of technology and knowledge through the ages. A most exciting and revealing read for anyone interested in the wonders of navigating the seas!

**Magee, Judith. 2009. Art and Nature: Three Centuries of Natural History Art from Around the World.**

Greystone Books, Vancouver, BC. 256 pp. Hardcover, \$50.00 (ISBN 978-1553655176). – The stunning visual nature of this book serves as a treat to anyone interested in the history of the exploration of the natural world and how new discoveries were documented and recorded. Judith Magee, curator of art collections at the Library of the Natural History Museum (London, England), takes the reader on a journey of discovery through time by featuring some of the greatest natural history artists of the last 300 years including Audubon, Bartram, Ehret, Gould, and Merian. She treats each continent in turn by drawing artwork from the unparalleled collections of the Natural History Museum and by doing so shows the development of natural history art through the centuries and its educational value in introducing new landscapes and wildlife to the lay public. Motivations of the artists are also explored, some seeking fame and fortune as artists and researchers in distant unexplored lands and others simply doing what they loved to do and having the opportunity of presenting their view of nature to the public at large. This ‘journey’ into the illustrated history of natural history art is well worth the time and expense.

**McCarthy, Dennis. 2009. Here be Dragons: How the Study of Animal and Plant Distributions Revolutionized Our Views of Life and Earth.**

Oxford University Press, Oxford, England, UK. 256 pp. Hardcover, \$35.95 (ISBN 978-0199542468). – Looking for an exciting and stimulating introduction to biogeography? Dennis McCarthy, research scientist at the Museum of Natural History in Buffalo, NY, succeeds in attracting the reader’s attention immediately by the book’s title – “Here be Dragons” – and then takes you into the wonderful realm of the study of the spatial distribution of living things around the world. The Preface “That Grand Subject” introduces the story of biogeography, from the 19<sup>th</sup> century and the findings of Charles Darwin and Alfred Russell Wallace to its present day development as a multi-disciplinary research field of study. The narrative is well organized into nine chapters that cover the strange patterns of life across the world and the principal forces responsible: evolution and plate tectonics. Continental drift, rise and fall of sea levels, land bridges and volcanic activity creating barren islands offshore, mobility of plants and animals, and reproductive isolation and the creation of new species, and a multitude of other factors are discussed in relation to an ever-changing landscape and world. McCarthy demonstrates how the findings of biogeography and its related fields have changed our view of the planet and in doing so reveals an exciting and dynamic area of research with much more work to be done.

**Saint-Pierre, Marjolaine. 2009. Joseph-Elzéar Bernier 1852-1934: Champion of Canadian Arctic Sovereignty.**

Baraka Books, Montreal, Quebec. 372 pp. Hardcover, \$75.00 (ISBN 978-0981240510). – A much needed biography on one of Canada’s legendary marine captains largely responsible for the claim of Canadian Arctic sovereignty. Originally published in French by Septentrion in 2005, the work has now been translated by renowned arctic historian William Barr and made accessible to a much wider readership. The book is a remarkable accomplishment that displays meticulous research, a thorough grasp of history, and fine writing skills that together with an abundance of excellent illustrations make this volume a fine portrait of one of Canada’s early arctic heroes and an essential book for any student of northern Canada and marine history. Let politicians read and learn of the validity of “Canadian Arctic Sovereignty” and remember that on 1 July 1909 Captain Bernier, his officers and crew erected a plaque on Melville Island in the Northwest Passage and laid claim to the entire Arctic Archipelago for Canada!

**Warkentin, Ian and Sandy Newton. 2009. Birds of Newfoundland.**

Boulder Publications, Portugal-Cove, Newfoundland. 237 pp. Hard softcover, \$34.95 (ISBN 978-0980914429). – This well illustrated field guide to the birds of Newfoundland fills a long-standing void in reference sources for the island’s avifauna. Although previous works exist, most notably H.S. Peters and T.D. Burleigh’s 1951 classic “The Birds of Newfoundland” and Leslie Tuck’s 1967 summary paper “The birds of Newfoundland” in “The Book of Newfoundland, Volume 3” and his more recent overview with W. Montevecchi in 1987 “Newfoundland Birds: Exploitation, Study, Conservation”, none of these are of any great use in the field owing to their size. The present work fits easily into a jacket pocket or small backpack, and provides all the information necessary to identify and locate most species occurring on North America’s easternmost island. Details are given for more than 170 species including morphology and plumage types, range and habitat selection, abundance, migratory movements, timing of breeding, diet, vocalizations and general behaviour. The colour illustrations for all the common species covered in this guide are extremely attractive and useful, and the inclusion of 31 full-page colour plates of the “Roger Tory Peterson Birds of Newfoundland Collection” (commissioned and originally published in Peters and Burleigh 1951) is an outstanding and unexpected bonus! This comprehensive field guide is an absolute “must-have” for anyone interested in Newfoundland birds, from amateur birdwatcher to professional biologist, and for North American birders at large.

## FORTIETH ANNIVERSARY OF THE HUDSON-70 EXPEDITION — A VOYAGE TO REMEMBER

Charles Schafer

**They** arrived from across Nova Scotia and from Ottawa, Calgary, Victoria, Florida, and England. On 17 November 2009, more than 50 Hudson-70 participants walked onto the floor of the BIO auditorium to help celebrate the fortieth anniversary of the first circumnavigation of the Americas by a marine vessel on a single voyage. The participants represented a good mix of ship's crew and scientific staff. All were easily identified by their green or gray Hudson-70 vests.

The ceremony was the brainchild of two students who back in 1969/70 had suspended their graduate studies for one year to take part in what both would later describe as a once-in-a-lifetime opportunity. Peter Wadhams, currently a professor at Cambridge University, and Roger Smith, a recently retired executive from Suncor Energy in Calgary, would each play important roles in making the celebration an outstanding event. Peter's contributions included the recent publication of a new book about the expedition ("The Great Ocean of Truth") and three public lectures he presented while in Nova Scotia describing his experiences as the only scientist who was aboard ship for the entire Hudson-70 voyage. Roger helped by serving as Master of Ceremonies for the celebration on 17 November and did similar duty for the Hudson-70 Science Seminar that took place on the following day. Both Peter and Roger were also active members of the Hudson-70 celebration Organizing Committee. They participated in planning and other deliberations

at almost every weekly meeting via a teleconference telephone link.

The celebration itself got underway at 11 a.m. on 17 November. Tom Sephton (DFO) delivered a short welcoming statement that was followed by the singing of *O Canada* with Patrick Potter (NRCan) leading the audience in song and Gordon Fader (BIO-OA) accompanying on the piano. After some opening house-keeping remarks by Roger Smith, representatives from the Canadian Coast Guard, Fisheries and Oceans Canada, and NRCan each offered short perspectives on the significance of the expedition for both BIO and Canada. They were followed by the more dramatic Presentations part of the ceremony in which each participant received several souvenirs of the anniversary. One of the items was a commemorative pen whose body was manufactured from a section of the teak railing that had been liberated from the *Hudson* about two months earlier. Other items included a selection of several CDs of Hudson-70 photographs, videos, and science seminar presentations. Thanks to a special work of magic by the CCG's David Morse, a commemorative coin was designed along the lines of the original Hudson-70 medallion which had been given to all participants following the end of the 11-month voyage in October 1970. This new medal was presented to all participants in attendance at the celebration. In addition, DFO's Kelly Bentham individually photographed participants in the Presentations part of the ceremony.

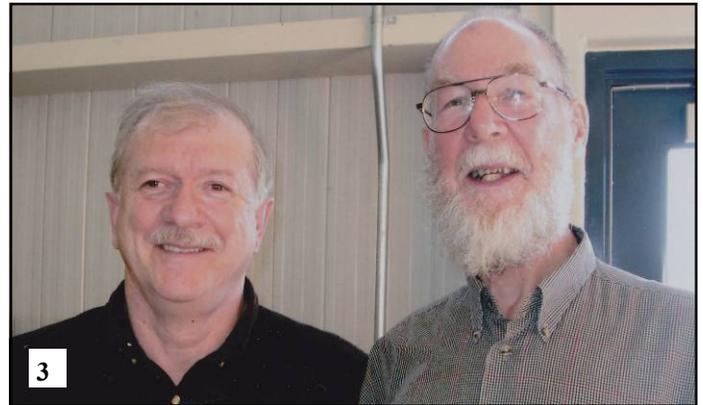
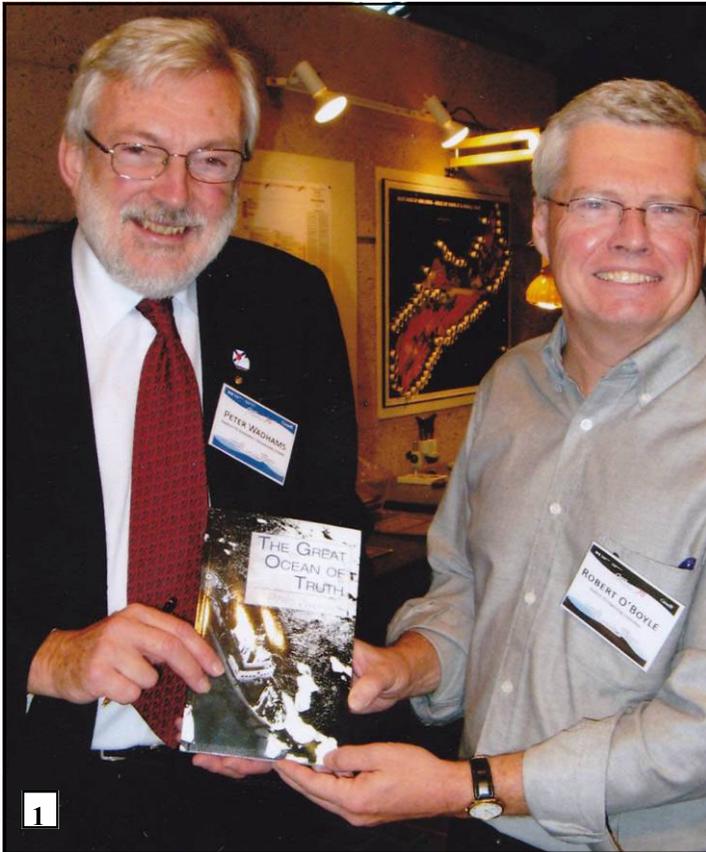
The Presentations part of the ceremony was followed by two other elements that made for a truly special event. In the first, Ed Murray (BIO-OA) told us about two Hudson-70 celebration time capsules that had been prepared by several members of the Organizing Committee. One of these capsules will be taken to Resolute on Cornwallis Island in Nunavut, Canada, in 2110 and buried at the site of the Hudson-70 plaque that had been erected there in 1970 by the Hudson's bosun, Joe Avery. The other one will reside in a special place in the BIO library until the 100th anniversary of BIO. However, these two capsules are not the first Hudson-70 capsule deployments. That accomplishment belongs to Tom Foote (DFO-retired), who prepared the first two using empty XBT cases and then deployed them at two remote locations near the southern tip of Chile (see Edmonds 1973, pp. 96 and 129, for the whole story). The second event, one that will stay with me for some time to come, was the first public presentation of a song ("The Mighty *Hudson*") written by Philip Spencer (NRCan) and sung by Patrick Potter (NRCan). The lyrics, and the idea for the song itself, are a testament to the creativity and imagination of some of the current generation of BIO staff that obviously ranges well beyond the corridors of Canadian marine science.

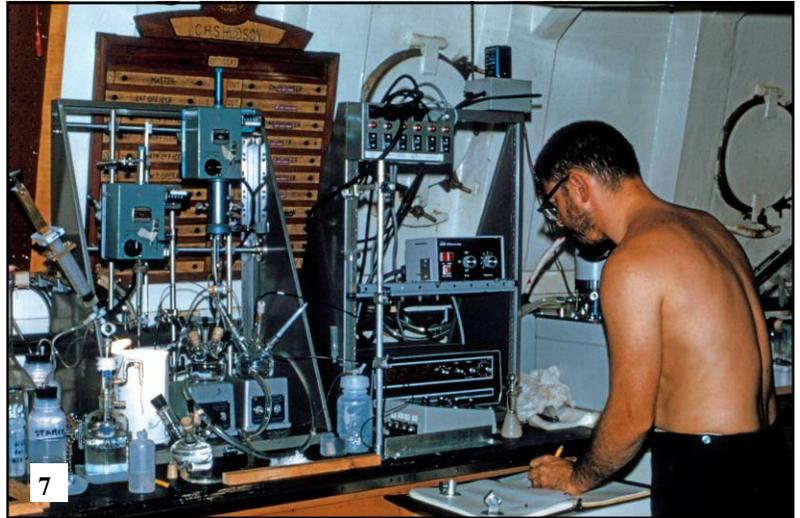
The Hudson-70 celebration story would not be complete without mentioning the work of the Organizing Committee. Its 18 members hailed from three government departments (CCG,

DFO and NRCan) and at least three outside organizations (the BIO-OA, Suncor Energy and Cambridge University). The Chair of the Committee (Gary Sonnichsen of NRCan) was very fortunate in having Claudia Currie (NRCan) as his celebration Events Coordinator, a job that she took on with a zeal that was likely equal to what she exhibited during one of her many water skiing competitions. However, an in-depth view of Committee operations also reveals a small army of foot soldiers (23 to be exact). They provided critical support for a variety of tasks. Exhibits of old 20<sup>th</sup> century equipment, both real and in poster form, were assembled and/or created for the celebration and set up at several strategic locations on Hudson for all to see (with special thanks to the BIO-OA's David McKeown). Both DFO and NRCan staff juggled public relations and media coordination activities.

The poster that I prepared on behalf of the BIO-OA was given to the ship following the celebration: it summarizes the scope of Hudson-70 scientific publications published by various individuals between 1970 and about 1984. The bibliography that I used for the poster had been put together by Bosko Loncarevic and Michael Latrémouille about 12 years after the expedition. When I printed a hard copy of the cruise report, the bibliography and attached publication copies added about a 17-cm thickness of paper to the already 3-cm thick document. As it turns out, new publications

... AND A FEW PHOTOS OF ORGANIZERS AND PARTICIPANTS FROM THE RECENT CELEBRATION AND THE EXPEDITION ITSELF





### FIGURE CAPTIONS

- 1) Author Peter Wadhams presents a copy of “The Great Ocean of Truth” to BIO-OA President Bob O’Boyle – see the Noteworthy Reads column (p. 2) for a brief review of this newly published book on Hudson 70.
- 2) Charles Schafer scores a hat trick on Ed Murray during preparations for the Hudson-70 celebration.
- 3) Carl Myers and David McKeown.
- 4) Roger Smith and Claudia Currie.
- 5) “Is it us, or are these beds even smaller than during Hudson 70?” Roger Smith (top bunk) and Peter Wadhams shared a cabin aboard *Hudson* some 40 years ago.
- 6) Roger Smith and Captain Richard Smith, no relation, discussing the layout and construction of the ship during the Hudson-70 celebration.
- 7) Iver Duedall at work in the chemistry laboratory aboard ship during the Hudson-70 Expedition.
- 8) 15 February 1970, Deception Island, Antarctica: standing left to right are: Peter Wadhams, Eric Mills, Hugh Henderson, Ced Mann, Joe Avery, Roy Edwards (holding poster), unknown, Fred Cooke, Tom Foote, and Bob Hessler. Front row left to right are: Iver Duedall and Louis Rustige, ship’s surgeon.

based on Hudson-70 research would continue to appear until 1991 and, I am told by my former boss and dear friend Bernie Pelletier, that at least one is still in preparation!

On the second day of the celebration (18 November 2009), five Hudson-70 scientific staff presented talks on some of the expedition's findings. Dr. Iver Duedall (Florida Institute of Technology - retired) spoke about techniques that he used to define ocean water masses and how his results compared with later 20<sup>th</sup> century surveys. Dr. Bernard Pelletier (NRCan – retired) outlined scientific discoveries made during the western Arctic (Beaufort Sea) leg of the voyage. I was able to resurrect some material on a redesigned multiple-depth plankton sampler that was mostly the ingenious work of Dick Vine (DFO- retired) and that I used to sample planktic Foraminifera populations in three large Pacific Ocean water masses. Dr. Richard Haworth (NRCan – retired) concluded the morning session with a summary of various geo-

physical investigations and surveys that were undertaken on several legs of the voyage. Following a luncheon that was made possible with the assistance of several BIO-OA volunteers, the seminar audience was treated to a one-hour talk by Dr. Peter Wadhams in which he painted a comprehensive picture of the many different faces of the expedition that focused on both people and events.

As someone who had the privilege of being selected to participate on the Tahiti-Vancouver leg of Hudson 70, I have to admit that I really did not initially appreciate the significant navigation and ship handling/maintenance skills that would be required for such a long voyage or the diversity of scientific issues that the expedition would ultimately address. That realization only came after I joined the Organizing Committee and started to research the records of the other legs of the voyage. I cannot recall (I seem to be saying that a lot lately) ever having worked with such an enthusiastic and creative group of indi-

viduals and I am especially pleased to have been a participant in that part of the celebration's preparation.

On a more somber note, the celebration itself was overshadowed by the rather sudden death of Dr. Ced Mann on 15 October 2009 in Victoria, BC, about a month before the Hudson-70 commemoration. Ced, along with Dr. William (Bill) Ford, and Captain Walter Kettle, are said to have conceived the original idea for the expedition during a casual discussion that took place in the officer's lounge of the *Hudson* about 18 months before the start of the voyage. Their proposal was brought to the attention of Minister Joe Greene of the Department of Energy, Mines, and Resources, who gave it his immediate and enthusiastic support (an act of political risk taking that does not seem to happen very often these days). The expedition was launched during a period of enhanced recognition by Canadians of all that the nation had to offer to its citizens. The voyage followed the very successful

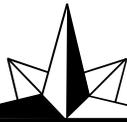
celebration of Canada's centennial at Expo 67. It was also the first major international oceanographic expedition undertaken following the 1969 United Nations proclamation establishing the 1970s as the "International Decade of Ocean Exploration".

At the end of the day, I believe that Ced, Bill, Walter, and Joe would have enjoyed and praised this fortieth anniversary celebration of a unique Canadian accomplishment and the work of the organizing committee that brought it to fruition.

#### References

Edmunds, Alan. 1973. *Voyage to the Edge of the World*. McClelland and Stewart, Toronto, Ontario. 254 pp. (Out of print.)

Wadhams, Peter. 2009. *The Great Ocean of Truth: Memories of "Hudson-70"*, the first circumnavigation of the Americas. Melrose Books, Cambridge, UK. 378 pp.



### FEEDBACK ON THE HUDSON-70 CELEBRATION

"Congratulations and thanks for an outstanding event. When Pete and I approached BIO last year about the idea of organizing a 40th Hudson-70 reunion/celebration, we never dreamed it would be so spectacular. It was clearly because of all of you. The time, effort, and creative ideas that went into organizing the event were amazing - plus the whole process was a lot of fun."  
*Roger Smith*

"Let me echo everything that Rog said. It was a wonderful occasion, a superb week, and it's all down to you guys (including female guys) who thought up and executed the whole Cecil B. de Mille schema."  
*Peter Wadhams*

"Every time I think about any one element of what transpired, I recognize how much effort went

into its happening... The camaraderie that was evident during the presentations to honourees was just the start of two days of fun and reminiscences. That is why BIO is such a family affair, of almost 50 years. Thank you most sincerely for having pulled it all together."  
*Richard Haworth*

"I join ... in sending my salutes to everyone, and in recognizing that all of us who took part on the voyage, and indeed took part in the celebrations, were offered the same good cheer. On behalf of my daughters, Marianne and Margret, who steered my course there, a thousand thanks to the BIO family...Good sailing from here!"  
*Bernard Pelletier and family*

**FULL  
CIRCLE**  
*Don Gordon*

I was born in Cornwall on the Hudson River about 100 km from New York City, just north of the scenic Hudson Highlands.

In my first 6 years, we lived on property that had been in my family for over 200 years and that had been both farmed and quarried for sand and gravel. It was later sold and incorporated into the Storm King Art Center in 1950. The Center has developed into a major museum that celebrates the relation between sculpture and nature. Five hundred acres of landscaped lawns, hills, fields, and

woodlands provide the site for over 100 sculptures by internationally renowned artists. The grounds are surrounded by the undulating profiles of the Hudson Highlands.

In April 2009, my sister was sitting in a Starbucks coffeehouse in North Carolina when she happened to pick up a discarded copy of the *New York Times*. In it, she read that the Storm King Art Center was about to open a new exhibit entitled the Storm King Wavefield, created by Maya Lin. She sent me the article, and I immediately became intrigued. My wife Jo and I were already planning a holiday trip to New York State in July to see friends and family, so we added a stop at the Center to our agenda.

The exhibit depicts large ocean swells, 3 - 5 m high, covering an area of 11 acres. Made from sand and gravel, they are blanketed with local grasses and wildflowers. We were amazed to see how an abandoned sand and gravel quarry could be converted into a work of art. It was also a very moving experience for me to return to my roots after pursuing a career in oceanography and see the property where I used to play as a toddler now covered with ocean waves. I felt as if I had come full circle.

For more details and photos of the sculpture, you can Google the Storm King Art Center and follow the links to Maya Lin and the Storm King Wavefield. It is certainly worth a visit if you are passing through the area.



“Walking through the wavefield is akin to being amid large swells at sea: One may temporarily lose visual contact with adjacent waves and the horizon, or rise to the crest and see for miles.” (As quoted on the exhibit’s web site at [http://www.stormking.org/maya\\_lin.html](http://www.stormking.org/maya_lin.html))

*Reproduced by permission: Maya Lin’s Storm King Wavefield, 2007-2008, Earth and grass, 240,000 square feet. Storm King Art Center, Mountainville, NY. Photograph by Jerry L. Thompson.*

## NEW VESSELS FOR THE DFO SCIENCE SECTOR

Don Belliveau

**The** number of vessels in the Science fleet at BIO has varied greatly over the years. The *Hudson* and *Baffin* arrived in the early sixties. The fleet grew from there and reached a peak in the late seventies and early eighties with the addition of multiple offshore trawlers, a few inshore trawlers, a selection of hydrographic survey vessels, and the *Dawson* for coastal oceanography.

What is now left? The *Hudson* was built in 1963 and is still our primary oceanographic survey vessel. The *Needler* came on strength in 1982, and it is still one of only two working offshore fisheries research vessels on the east coast. The *Matthew* came into service in 1990, and it is now our primary hydrographic survey vessel for the east coast. The *JL Hart* was taken out of service in 2004/05, and we have been chartering vessels to replace it ever since. The work boat at the St. Andrews Biological Station, the *Pandalus III*, was built in 1986.

Where are the new vessels? There is good news. While the fleet size will not return to previous levels, we are replacing vessels. BIO took delivery of a new launch for Bedford Basin work, the *Sigma-T*, in March 2009. In addition, the following will happen soon:

- The *Pandalus III* at the St. Andrews Biological Station is being replaced by a more capable vessel, the *Viola M. Davidson*. This vessel is under construction now in the ABCO Industries yard in Lunenburg, NS, with delivery expected in spring 2010.
- The *JL Hart* replacement is part of the Inshore Fisheries Research Vessel program. The design is complete and a contract to build should be issued in January 2010 with delivery in March 2011. This project is benefitting from the Government of Canada's Economic Action Plan – stimulus funding.

More can be expected a little further down the road. In 2005 the federal budget announced funding to replace two offshore fisheries research vessels, one on each coast. In the spring of 2007, further funding was announced to replace another offshore fisheries research vessel on the east coast. As a result, three new offshore fishery science vessels are to be delivered, two on the east coast (one to be based at BIO) and one on the west coast. Fisheries and Oceans Canada expects to have a contract in place with a Design Firm early in 2010. It is anticipated that the building of these vessels will begin in 2011 with deliveries in 2013, 2014, and 2015.

In 2005, the federal budget announced funding to replace the *Hudson*. Fisheries and Oceans Canada expects to have a contract in place early in 2010 to design a new offshore oceanographic science vessel. It is anticipated that the design will be completed next year, construction will start in 2011, and delivery will be in 2013.

Both the offshore fisheries research and oceanographic vessel projects are following a phased procurement approach — design then build.

Even further down the road, the *Louis S. St. Laurent* replacement (the *Diefenbaker*) was announced in 2008 and Fisheries and Oceans Canada / Canadian Coast Guard are working currently on defining the “indicative requirements”. Current plans call for a design contract to be in place in 2012, building to start in 2014, and delivery to occur in 2017.

Not only is the polar Icebreaker an essential element for the delivery of the Canadian Coast Guard programs and the fulfillment of the Coast Guard mission and legislated mandate, it is also essential to the strong Science initiatives outlined in the Government's Northern Strategy.

## OUR MAN IN PORTUGAL: FEEDBACK FROM A READER

Member Bill Silvert writes to say he read “David McKeown's account of his holiday in Portugal with interest [see *Another Day in Paradise*, BIO – OA Newsletter, Issue 43, July 2009, pp. 5-6], since I live close to where he was and am sorry that we did not connect. I have been living in Portugal since the beginning of 2000 and in the Algarve for most of that time, about 20 km from the Faro airport.

Dave mentions that the Parrotts live in a park near Traviria - I checked with him and he means the Nature Park of Ria Formosa, near the town Tavira which is close to where I live.

The dish he mentions, chicken for two cooked in a crock-pot, is Frango na Púcara, and a similar very popular dish is cooked the same way, Cabrito na Púcara. Another very popular meat dish is Carne de Porco Alentjano, which consists of cubes of pork mixed with small clams - an unusual and very tasty dish. Actually meat dishes are so popular that they are not even listed on the menu, you just know that you can order cutlets and ribs everywhere you go. Many of the fish you will find in the Algarve are unfamiliar, either because you know them, but never eat them (e.g., conger eel) or because they are very local (e.g., scabbard fish).

If any of you follow Dave's route to the Algarve, I hope that you will come by for a visit. I would love to see old friends and also I have a restaurant in the Algarve, which you can see at:  
<http://www.cig.cafeperal.eu>.

We are just north of Faro and close to the main east-west highway, so please stop by if you are in the area.”

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## ANNAPOLIS VALLEY WINE TOUR...DE FORCE

The first BIO - OA wine tour, organized by Iris Hardy and Gordon Fader, was held on Wednesday, 7 October 2009. It began auspiciously when the heavy rain showers forecast that day held off for our morning's mainly outdoor guided visits to Sainte Famille Wines Ltd. in Falmouth and the Muir Murray Estate Winery on Winery Lane near

Grand Pré National Historic Site. At noon, our group filled a dining room at the popular Port Pub in Port Williams where we enjoyed a delicious and convivial lunch with plenty of time for conversation. During the rainy afternoon we enjoyed indoor visits, presentations, and wine tastings at the Blomidon Estate Winery in Canning and the

Domaine de Grand Pré Winery outside Wolfville. All in all, it was an excellent day's outing that many of us capped off by purchasing a few of our favourite vintages at discounted prices from the excellent selections we tasted that day.

(Photographs courtesy of Gordon Fader.)

## NEWS SOUGHT FROM RETIRED GSC ATLANTIC STAFF

The fall 2010 issue of the *Geological Survey of Canada's Old Timers Newsletter* will have news about what retirees have been up to recently on a personal level or professionally. Charles Schafer will be reporting on what GSC-Atlantic retir-

ees have been up to. He will be reporting to Thomas Frisch who edits the newsletter. If you would like to contribute, please let Charles know at [charlestschafer@hotmail.com](mailto:charlestschafer@hotmail.com) (telephone 902-861-3145).

## IN MEMORIAM

Cedric (Ced) Robert Mann, on 15 October 2009, aged 83. Ced organized and led the Hudson-70 Expedition. He worked at BIO as a scientist, director, and then director general from the early sixties to 1979.

Stephen Christopher Nolan, on 25 November 2009, aged 46. Steven was a marine biologist at BIO with DFO's Population Ecology Division.

John Lorenz Palmer, on 2 November 2009. John served as a radio communications officer aboard CSS Baffin and CSS Hudson.

Elizabeth (Betty) Jane Tillman, on 13 November 2009, aged 64. Betty worked for DFO's Personnel Services at BIO and in Halifax.

Roland Kenneth (Ken) Williams, on 1 December 2009, aged 80. Ken had a 30-year career with the Canadian Hydrographic Service, most of it at BIO.

## 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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Robert Reiniger (1998-2000), Dale Buckley (2000-02), David Nettleship (2002-04), Donald Peer (2004-06), Elizabeth Sutherland (2006-08)