

VOICEPIPE

Issue 59

July 2013

The Newsletter of the BIO-Oceans Association



'Murph' Fans Gather for the 2013 Beluga Award Ceremony



The 2013 Beluga Award was given to Robert Murphy, GSC Atlantic, at a ceremony in the William Ford Auditorium at BIO on 9 May 2013. Bob Murphy was nominated for the Beluga Award by Peter Pledge (GSC Atlantic) and his nomination was supported by many other BIO staff. The following words are excerpts from the testimonial delivered by Claudia Currie.

Bob exceeds the criteria desired in a Beluga Award winner. His spirit of unselfishness, his actions that help his fellow colleagues achieve



Photos (counter clockwise from the top right): Beluga Award sculpture; Bob Murphy thanks BIO-OA and his nominators; Bob Murphy with the Award; and Claudia Currie delivering the testimonial.

BIO OA Summer Pot Luck
BBQ
7 August 2013
2-6 pm
121 Crichton Avenue
Dartmouth

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Photos: (top, left to right) Bob Murphy's son Sean and wife Debra at the award ceremony; (bottom, left to right) Mel and Thelma Boutilier, Parker Street Food Bank with Bob Murphy after the award ceremony.

their goals are why we are here saluting him today. Bob's accomplishments go way beyond the requirement for winning Beluga. Bob worked for long periods of time, in adverse conditions and in isolation. His excellence at the end of a long expedition is as intense as it was at the beginning of those arduous field trips! And the amazing thing is he does it year in and year out. For 41-years, but who's counting!

Bob's family, his wife Debra and son Sean, have had to make sacrifices over the four decades Bob has been BIO's mainstay in the field. There is a good chance that while most of us are happily tucked away with our families at home at night, Bob is on a ship somewhere at sea deploying and operating gear on behalf of BIO. His family Debra and Sean also had to make sacrifices on behalf of BIO.

In the field or in the lab, it's simply a pleasure working with someone who will always have your back and keep you laughing even when the going gets rough, and as a lot of us know, it sure can get rough at sea! Bob's intense loyalty to the job and to his fellow workers represent his gift to all of us, and today, we are here to say

"thank you, Bob" by awarding him BIO's highest honour, BIO-Oceans Association's Beluga Award.

Ask yourself when you walk into the building at Christmas and you see the auditorium decorated with the beautiful ceiling lights, you note a Christmas tree standing proud, or take part in the Government of Canada Charitable workplace fundraising events, 1,000 Christmas dinners in the name of BIO delivered to homes of the impoverished or banners hung from the outside of our building, or those cool red shirts we wore so proudly last year, or the setup for Huntsman, or for Conferences, or for the ship that needs an expert to load her, and even as insignificant as who gets you that huge parcel that has been in stores too long? Or when we need the 50th Anniversary plaque mounted on our behalf, one has to ask who is at the centre of all of these undertakings? Yes, it's Bob Murphy working at the core with other BIO volunteers, but always "on our behalf".

In light of this celebration it might be a good time to take a second look at Murphy's Law (no relation of course) which typically states: "Anything that can go wrong will go wrong".

William Stapp was an engineer who headed a research project MX981 at Edwards Air Force Base in the United States. He was running an experiment for the purpose of testing the human tolerance for g-forces during rapid deceleration. There were some failures, after all they were just testing, and Stapp was asked how it was that nobody had been severely injured during the rocket-sled tests. Stapp replied that it was because they always took Murphy's Law under consideration. He then summarized the law and said that in general, it meant that it was important to consider all the possibilities (possible things that could go wrong) before doing a test and act to counter them.

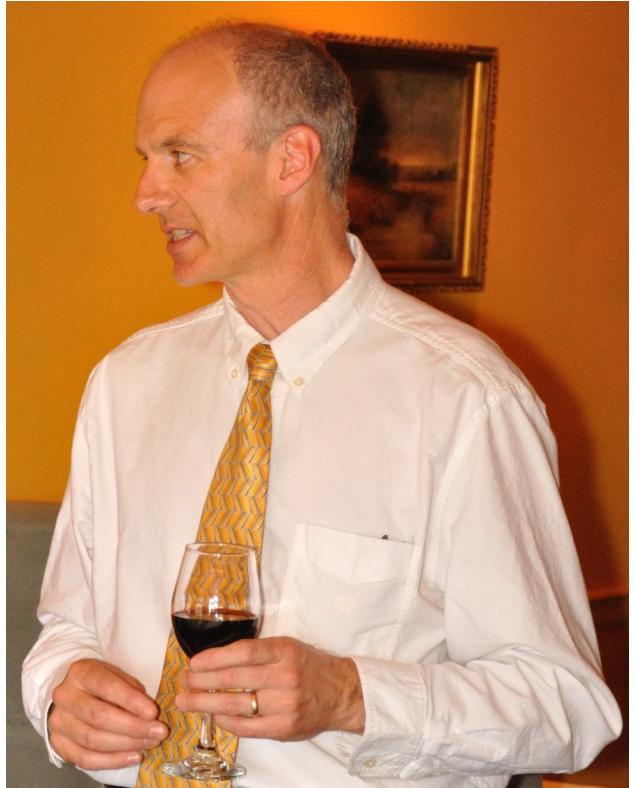
Now, after 41 years of seeing a failure or two, Bob's diligence in prepping for the field or working on an in-house project is flawless. It allows us to say there's a new Murphy's Law in place at BIO, one that states "If you put in the extra effort ahead of time, have the loyalty of your co-workers, and consider all the possible things that can go wrong, but then counter them, success will prevail". That's BIO's new Murphy's Law!

Bosko Loncarevic, took the podium during the ceremony to explain how Bob came to work at BIO, and said "hiring Bob was one of the best decisions I made as the Director of the Atlantic Geoscience Centre."

BIO-OA members celebrate with Bob Murphy, the 2013 Beluga Award Winner, at La Perla



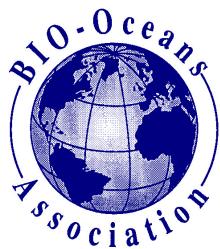
Photos (clockwise from top left): Members of the BIO-Oceans Association Executive and guests join Bob Murphy and his family for a celebratory luncheon at La Perla Restaurant in Dartmouth; Patrick Potter, Chair of the Beluga Award Committee, offers a toast to Bob during the luncheon; and Bob Murphy says “thank you” to all the luncheon guests and the BIO-OA.



Dr. Peter Wells, savouring an earlier ‘victory’ in the mountains.

Two BIO-OA members are Gulf of Maine Council Award Winners

Dr. Peter Wells (photo above left), BIO-OA member and Adjunct Professor in the Faculty of Management and a Senior Research Fellow at the International Ocean Institute, was awarded the Gulf of Maine Council 2013 Susan Snow-Cotter Leadership Award. This award is bestowed in memory of Susan Snow-Cotter, former Director of the Massachusetts Office of Coastal Zone Management, whose unwavering passion, enthusiasm, and pragmatic approach to coastal management served to overcome many challenges. Dr. Gareth Harding, BIO-OA member and Emeritus Scientist, DFO, BIO won the Gulf of Maine Council Visionary Award which will be presented formally in Halifax, Nova Scotia, in December 2013. The BIO-OA congratulates both deserving winners.



FROM THE PRESIDENT

The second month of my term has passed. It has been an interesting two months. The BIO – Oceans Association is in the process of developing a new Memorandum of Understanding between the BIO-OA

and the Departments of Fisheries and Oceans Canada (Maritime Region) and Natural Resources Canada (Geological Survey of Canada – Atlantic). Over the years since being formed, the BIO-OA and BIO Management have had a very good relationship and it will continue into the future.

A few things which have gone on and future plans.

The Bernard Pelletier Arctic Fossil Garden has been named in honour of Bernie Pelletier who passed away this year. Quoting Claudia Currie “The environment we are trying to emulate is that of an Arctic Fossil forest found on Ellesmere Island by scientists in the Geological Survey of Canada. Fossils found, show trees way above the tree line on Ellesmere Island preserved in Tertiary and Cretaceous rock. Modern day versions of these trees have been found and planted to make the whole middle courtyard- (right beside the *Hudson* ‘70 wall) an educational and sensory pleasing area for both staff and visitors for the next 50 years.” Eight trees have already been planted funded by BIO and other scientists. Trees may be purchased for \$250.00. This area is a great addition to the BIO campus.

The editorial board for “The Voyage of Discovery” has been making progress. Many hours have been put into this project. In my own opinion from the sample paper we have seen, this publication will become a classic. What better way to celebrate the first 50 years of BIO’s scientific research.

In celebration of The CSS *Acadia*’s 100th birthday, Iris Hardy has produced a painting of CSS *Acadia* and has had cards printed. These can be obtained in the BIO Gift Shop. (see page 10)

Volunteers are needed to help on the *Acadia* on the Natal Day weekend, 3-5 August 2013. Iris is the contact person for the BIO-OA.

A couple of summer activities are taking place. A whale watching cruise has been scheduled for 24 July. A notice of this event has been circulated. Secondly, a Pot Luck BBQ gathering will be taking place on 7 August from 1400-1800 h at the home of Don and Jolene Gordon, 121 Crichton Ave. Attendees are asked to bring d’oeuvres , salads or desserts.

Mike Hughes

Excerpts from the Nova Scotian Institute of Science letter to the Minister of Fisheries and Oceans Canada

3 May 2013

The Nova Scotian Institute of Science (NSIS) approves whole-heartedly of any measures that would better protect [commercial, recreational and Aboriginal] fisheries. However, the concern we raised in our letter to the Prime Minister remains – how will we protect the environment generally when the Fisheries Act as amended only protects the habitat of exploited fish and not the habitats of all fish and other animals?

Federal agencies and departments should be working to maintain our natural wealth for future generations. ... Can we say that these [unexploited] animals have no commercial potential? What of the intrinsic value of diverse and healthy ecosystems? How will DFO contribute to the preservation of natural beauty and pristine waters when DFO stands only for the protection of commercial, recreational and Aboriginal fisheries? What of species that are unexploited but which make important contributions to ecosystems? ... What of species that are unexploited due to near-extinction? Who will argue for the improvements in watershed-management needed to return the Atlantic salmon to a semblance of its past glory? If DFO is responsible for our waters, marine and fresh, then DFO must act on behalf of Canadians to protect all such habitats. To do otherwise is an abdication of duty that will depreciate our natural heritage.

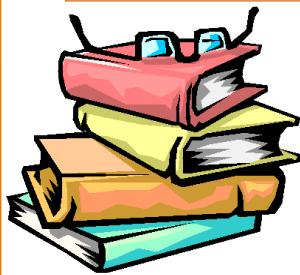
The amended Fisheries Act also takes a limited view of ecological interactions. Ecological systems by their nature are interconnected. Failure to protect the habitats that interact with those that support a commercial, recreational or Aboriginal fishery will compromise the latter and ultimately defeat the purposes of the amended act.

... the amended Act does not adequately consider degrees of harm. Section 35 does not appear to address how exploited species will be protected from conditions that have cumulative deleterious effects. The NSIS urges the government of Canada to address this oversight in the legislation and provide protection for commercial, recreational and Aboriginal fisheries against any type and degree of harm.

We challenge the Government of Canada to explain how, in the context of sustainable economic development, all freshwater and marine species and their habitats will be protected and, if necessary, restored. Surely, in this age of mounting evidence for the costs of ecosystem degradation, the Canadian people expect their governments to act broadly to preserve the environment.

Yours sincerely,

Michelle Paon
President, Nova Scotian Institute of Science



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: dnmlundy@navnet.net (phone: 902-826-2360).

SUMMER READS GALORE!

Additions to Your List:

*from global warming and rising sea levels
to sea dogs and action-packed battles at sea!*

SPECIAL PUBLICATION

THE RISING SEA AND THE FUTURE

Fagan, Brian. 2013. The Attacking Ocean: The Past, Present, and Future of Rising Sea Levels. Bloomsbury Publishing, New York, NY. 320 pp. Hardcover, \$25.50 (ISBN 978-1608196920).— Published 11 June 2013, this unnerving examination of global climate change and the impact of rising sea levels on human societies by celebrated author and scientist Brian Fagan, commands attention and concern. Fagan reviews sea-level events spanning the past fifteen thousand years showing vividly the changes human populations have experienced. As dramatic as these changes have sometimes been, the impact on humans, except for certain local areas such as the Nile Delta, has been minimal with people adjusting easily to new coastlines. While global sea levels stabilized some six thousand years ago, the human population expanded greatly in numbers and geographic range, more than quintupling the past two thousand years to the current explosion since the Industrial Revolution. From the mid-1800s, the world has warmed significantly, and with this an accelerated rise in sea level. Fagan carefully outlines the complexity of the relationship between humans and the sea, and shows how the crowding of people along shorelines to live and develop has contributed markedly to the magnitude of the problem and nature of the conflict. He effectively demonstrates that the dramatic growth of human populations throughout the

world and their associated activities are largely responsible for the ocean’s expansion and climb, not the oceans. This is a warning for governments worldwide to act now in an attempt to forestall the oncoming inevitable flooding and destruction.

General Reviews

Anderson, Mark. 2012. The Day the World discovered the Sun. Da Capo Press, Philadelphia, PA. 280 pp. Hardcover, \$29.00 (ISBN 978-0306820380).— Read about the first international ‘big science’ project to view the planet Venus’ transit across the face of the sun on 3 June 1769 from three locations – the Arctic, the New World, the Pacific – with the aim to expand knowledge of the solar system and refine methods of determining longitude at sea in an era of limited technology. Competition among scientists worldwide was fierce, and the accounts of the three Venus Transit expeditions are gripping, as is the description of the momentous breakthrough that occurred and how it changed our understanding of our place in the universe.

Blackwell, Andrew. 2012. Visit Sunny Chernobyl: And Other Adventures in the World’s Most Polluted Places. Rodale Books, New York, NY. 320 pp. Hardcover, \$29.99 (ISBN 978-1605294452).— Here is a twist on travel. Instead of seeking exotic and beautiful locations, Andrew Blackwell searches out the most polluted sites in the world and provides gruesome descriptions of each with details of how these environmental disaster areas occurred. The purpose is two-fold, to show how destructive we are as a species and to better understand the consequences of consumer-driven societies both now and in the future.

Dawson, Joan. 2012. Nova Scotia’s Historic Rivers: The Waterways that Shaped the Province. Nimbus Publishing, Halifax, NS. 188 pp. Softcover, \$21.95 (ISBN 978-1551099323).— Good reading for the history buff! A delightful tour around the province revealing how Nova Scotia’s rivers have contributed to its settlement, development, and survival. The stories and abundant illustrations, old and contemporary, provide a fascinating glimpse into the heart of the province’s past that ignites a desire to explore and learn more. An exhilarating read!

Diamond, Jared. 2012. The World Until Yesterday: What Can We Learn from Traditional Societies? Viking, New York, NY. 512 pp. Hardcover, \$38.00 (ISBN 978-0670024810).— This impressive volume from renown biogeographer and evolutionary biologist Jared Diamond is enlightening, challenging, and provocative.

It describes how modern societies evolved from our hunter-gatherer ancestors, and how much we can still learn from the practices of these traditional societies. This is an informative and thought-provoking read from one of our most astute synthesizers on the nature of human societies, past and present. A fascinating and valuable book.

Dodd, Susan. 2012. The Ocean Ranger: Remaking the Promise of Oil. Fenwood Publishing, Halifax, NS. 192 pp. Softcover, \$24.80 (ISBN 978-1552664643).— A heart-wrenching chronicle of the tragic sinking of the oil rig Ocean Ranger on 15 February 1982 off the coast of Newfoundland that took the lives of all 84 workers aboard, including the author's brother. This extraordinary book provides a rare examination of the aftermath of such a disaster not only on the families of victims, but on the socio-political processes that follow. This is a call for a more rigorous and exacting set of government regulations on the petroleum industry in the dangerous offshore environment and the elimination of corporate indifference to such disasters.

Grande, Lance. 2013. The Lost World of Fossil Lake: Snapshots from Deep Time. University of Chicago Press, Chicago, IL. 432 pp. Hardcover, \$46.79 (ISBN 978-0226922966).— The deposits of Fossil Lake, southwestern Wyoming, as depicted and described by geologist Lance Grande, take us back into our planet's long-lost past. Now a dry, high mountain desert with a sparse community of plants and animals, fifty million years ago (early Eocene) it was a subtropical lake surrounded by forests and teeming with life. The combination of outstanding colour photos of the fossils uncovered with explanations of their evolutionary histories gives the reader a vivid impression of the rebirth of a long-extinct community – scientific investigation at its best! Sit back, relax, and visualize ancient North America in all its splendour and diversity.

Johnston, A.J.B. 2013. Louisbourg: Past, Present, Future. Nimbus Publishing, Halifax, NS. 122 pp. Softcover, \$15.95 (ISBN 978-1771080521).— Considering a visit to the Fortress of Louisbourg to celebrate the 300th anniversary of its French founding? If you are, or plan to do so in the future, then pick up a copy of A.J.B. Johnston's latest book on the fortress and its rich history. An engaging and informative text with numerous illustrations that captivates and provides all that is required to make a trip to Louisbourg a successful and memorable venture.

Krause, Bernie. 2012. The Great Animal Orchestra: Finding the Origins of Music in the World's Wild Places. Little Brown, London, England, UK. 288 pp. Hardcover, \$30.00 (ISBN 978-0316086875).— A fascinating look into the wonders of natural sound by musician and naturalist Bernie Krause, one of the world's leading experts on the composition and significance of nature's soundscapes. His pursuit of natural sounds in truly wild places – from melodious songbirds and little peepers with their stunning choruses to the richness of the songs of Humpback Whales, howling of wolves, and roaring of mountain gorillas – takes the reader on an unexplored journey of exploration and discovery. While the beauty of these natural sounds is highlighted, their function and purpose to the performers are revealed with an abundance of surprises including the often overlooked evolutionary survival value they contain. A joy to read, and an important call for the conservation and protection of the music of the wild!

Lambdin, Dewey. 2013. Hostile Shores: An Alan Lewrie Naval Adventure. Thomas Dunne Books, New York, NY. 354 pp. Hardcover, \$29.99 (ISBN 978-0312595722).— Want a good 'wooden-ships and iron-men' sea story, then this latest adventure by Dewey Lambdin should more than satisfy. In 1805, Captain Alan Lewrie in HMS *Reliant* takes part in the British invasion of Cape Town and then crosses the Atlantic to attack Buenos Aires. Descriptions of duels with the Dutch and Spanish will keep you on the edge of your chair, and provide incredible at-sea entertainment.

Meduna, Veronika. 2012. Secrets of the Ice: Antarctica's Clues to Climate, the Universe, and the Limits of Life. Yale University Press, New Haven, CT. 232 pp. Hardcover, \$40.74 (ISBN 978-0300187007).— If interested in science and why it is performed, this big and beautiful tome is something to reach for and read. Science journalist Veronika Meduna reviews a representative sample of the studies undertaken by dedicated workers at the bottom of the world, with the nature of the work portrayed in more than 150 colour photographs. This engaging book shows the great diversity of scientific investigations – ranging from the determination of past temperatures and levels of greenhouse gases to the marvel of current life forms, plant and animal, that have adapted to the demanding environment of Antarctica -- and how they fit together to better understand the polar environment and reveal implications of present climate change for the future. Overall, 'Secrets of the Ice' is a solid overview of scientific activity in Antarctica today

and the commitment of the many researchers who are concerned about our planet and its future.

Muijenburg, Peter. 2012. A Sea Dog's Tale: The True Story of a Small Dog on a Big Ocean. Cadent Publishing, Rockland, ME. 268 pp. Hardcover, \$16.95 (ISBN 978-1937644079).— A delightful true account of family wanderlust, a sailboat, and an 11-pound schipperke named Santos to watch over sailors Peter and Dorothy Muijenburg and their two young sons. This captivating story of familial love and adventure spans 75,000 deep-water offshore nautical miles including four trans-Atlantic crossings, exploring the Mediterranean and African rivers, the Caribbean, and the U.S. Atlantic seaboard. Immerse yourself in the tales, especially those of Santos and his many experiences, which included everything from a kidnapping to hurricanes. Finding a shipmate with the devotion and loyalty of Santos will be a challenge, but read and savour the relationship described in this sailing yarn.

Petit, Philippe. 2013. Why Knot? How to Tie More than Sixty Ingenious, Useful, Beautiful, Life-saving and Secure Knots! Abrams, New York, NY. 265 pp. Hardcover, \$19.95 (ISBN 978-1419706769).— Want some profitable outcome while enjoying the ‘dog days’ of summer? Well, this book of knots by world-renown high-wire artist Philippe Petit might fit the bill! Petit, best known for his 1974 high-wire walk between the Twin-Towers in New York and numerous other exotic walks including Niagara Falls and Notre Dame in Paris, provides readers with complete details of his 60 favourite knots using stunning photos and descriptions, knots his life has often depended upon. The discussion of knots used, and why, in various death-defying ventures makes for delightful and entertaining reading. Learn a few to impress your nautical friends, but don’t attempt to show how the knots were employed!

Scott, Justin. 2012. The Shipkiller. Pegasus Books, New York, NY. 352 pp. Hardcover, \$27.00 (ISBN 978-1605983714).— This 35th anniversary reprint of the best-selling sailing saga by Justin Scott remains as exciting and timely today as it was when first published in 1978. Placed on the *New York Times Book Review* list and lauded by *Time* magazine as a saga “as heady as Francis Chichester’s narrative, with a draught of Melville and a slosh of Josh Slocum”, the book is to be celebrated as a sailing fiction classic. The seamanship described is excellent and the plot captivates the reader much like a spy thriller. Stretch out on a hot summer day and enjoy this exciting story of the conflict between su-

per-sized tankers and smaller vessels on the ocean’s highways!

Stanford, Dennis, Bruce A. Bradley, and Michael B. Collins. 2012. Across Atlantic Ice: The Origin of America’s Clovis Culture. University of California Press, Berkeley, CA. 336 pp. Hardcover, \$34.70 (ISBN 978-0520227835).— Want a mystery story to while away the warm days of summer, a time investment that may be more rewarding than expected? In this account, Dennis Stanford and colleagues produce a startling challenge to the traditional view that the first humans to inhabit North America came some 12,000 years ago across the land bridge that spanned the Bering Sea, by suggesting that the first Americans crossed the Atlantic by boat and arrived earlier than previously believed. Their hypothesis is based on strong archeological and oceanographic evidence that links the early New World Clovis culture and technology to the culture of the Solutrean people who occupied France and Spain more than 20,000 years ago. If so, the Clovis tools discovered in the Americas may not be Asian in origin, but European. The argument offered is based on carefully crafted research with the conclusions drawn supported by the evidence presented. The questions of who were the first Americans and where did they come from may still require more archeological investigation, but a read of ‘Across Atlantic Ice’ will certainly trigger much thinking to occupy those summer days!

Stott, Rebecca. 2012. Darwin’s Ghosts: The Secret History of Evolution. Spiegel and Grau (Random House), New York, NY. 416 pp. Hardcover, \$32.00 (ISBN 978-1400069378).— Rebecca Stott, accomplished science historian and author of the acclaimed ‘Darwin and the Barnacle’, pulls out all stops to remind readers of the 2,000 years of evolutionary thinking that preceded Charles Darwin’s ‘The Origin of Species’ in 1859. In Stott’s inspiring work, we’re taken back in time to review the many outstanding people that speculated on the question of where we came from and laid the foundation for the Darwin-Wallace discovery of the mechanism of evolution and how it works. So, sit back and revisit the wonders of scientific history and insights on the giants of humankind from Aristotle and the Islamic scholar Al-Jahiz, through several 16th to 18th century natural philosophers such as Bacon and Maupertius to Darwin’s immediate forebears and contemporaries including his grandfather Erasmus Darwin and closest confidants Charles Lyell and Thomas Huxley. This brilliant book on the evolution of the theory of evolution has a place on the shelves of all biologists.

The 9th Elizabeth Mann Borgese Ocean Lecture: “People won’t destroy what they love”

by Andy Sherin



Nikolaus Gelpke delivered the 9th Elizabeth Mann Borgese Ocean Lecture at Dalthousie University on 10 June 2013. Nikolaus is a Swiss publisher, marine conservationist, and former research diver. His passion for the oceans, fuelled in large part by working as Elizabeth Mann Borgese's dog sitter in 1983, is reflected in his work as founder and Editor-in-Chief of the journal ‘mare’ and as publisher of the ‘marevelag’ publishing house.

He has been a driving force behind two important publications on the State of the Oceans: World Ocean Review 1 - Living with the Oceans (2010) and World Ocean Review 2 - The Future of Fish, the Fisheries of the Future (2013).

Nikolaus Gelpke began his lecture with stories from Elizabeth Mann Borgese’s life. Two men were very influential instilling her with a passion for the ocean. Her father Thomas Mann, the celebrated German author, was the first. The Mann family spent their summer vacations by the ocean. Nikolaus told of a particular conversation between Elizabeth and her father on the beach, “My ocean, Elizabeth,” her father said, “my horizon and again a horizon. What is beyond the horizon? Always a new horizon.”

After World War II, Elizabeth married Giuseppe Antonio Borgese, an anti-fascist Italian writer and professor of literature, with whom she partnered in politics to bring a better balance to the world. After her husband’s death in 1952, her interests turned to the oceans. She organized the first ‘*Pacem in Maribus*’ conference in 1970 in collaboration with Arvid Pardo, the second man to inspire her passion for the oceans. They established the International Ocean Institute (IOI) and worked on the United Nations Convention on the ‘Law of the Sea’. She was the first woman to be a member of the Club of Rome. Nikolaus recounted accompanying Elizabeth to a Club of Rome meeting disguised as her bodyguard.

Nikolaus then turned his lecture towards his own work. After his studies in marine biology at Kiel University, he became aware that he would be more effective at

changing society’s perspectives on the ocean as a journalist rather than as a scientist. He now works as a journalist and publisher to engage the public with the ocean. “If you show the beauty – people won’t destroy what they love.” He presented some examples of stories published in ‘mare’: the Niger Delta story where “25 oil spills like Deep Horizon occur every year”, the Bangladesh story where flooding of the land at low elevations brings misery to the poor, and the story of a man in the Ukraine who built his own submarine.

Nikolaus then talked about the World Ocean Review (WOR). He embarked on this initiative with the objective of changing society’s perspectives of the oceans in the same way the IPCC reports changed perspectives on climate change. During the preparation of WOR 1, the manuscript ‘ping-ponged’ many times between scientist and journalist until the text satisfied the scientists for rigour and the journalists for language could be understood by the public. This back-and-forth exchange resulted in an excellent and readable text. A major challenge with connecting the public with the plight of the oceans is that for the most part, the problems are unseen: “Who can see the impacts of ocean heating or acidification? Who can see the impacts of the over exploitation of fisheries resources?”

WOR 2, published in 2013, is an analysis of the state of the world’s fisheries and the consequences for the global food supply and ocean ecosystems. Nikolaus suggested that scientific information often stays within the scientific community. There is a need to educate the scientist on how to speak to the media and politicians. He has suggested, in his role as Vice President of the International Ocean Institute, that funding be diverted away from the ‘*Pacem in Maribus*’ conferences, which have become less influential, to a program for such communication training. He is optimistic, however, about the younger generation of scientists who know how to ‘Tweet’ and use other social media. He provided an example of a scientist with the highest number of citations on the topic of sea-level rise who now publishes only on his blog. In addition to getting information from sci-



entists out to the public through the media, the powerful influence of industrial lobbies needs to be countered. Year after year, Nikolaus said, scientists provide advice on models for the replenishment of fish stocks in Europe, and year after year the advice is ignored after closed-door lobbying by fishing industry in France, Spain, and Portugal.

During questions, Nikolaus illustrated the challenge of engaging the public on ocean issues. Once, during a television broadcast by his company on sea horses, the

broadcast lost 50 % of the audience when a famous German actor started to read a poem about sea horses. However, the audience increased by 300 % when the topic turned to the sexual potency of ingesting dead sea horses! Capturing the public's attention to important issues in the ocean will require making the members of the public understand how the ocean impacts their lives.

Nikolaus Gelpke's lecture challenges us to be advocates for the sea and to make the problems in the ocean visible to society.

New Faces on the BIO-OA Executive

Several new faces have joined the BIO-OA Executive at the Annual General Meeting held on 9 May 2013. Mike Hughes assumed the office of President, with former President Paul Keiser became Past President and new OA member Mike Murphy took on the task of Secretary. Two familiar faces to BIO-OA, but new to the Executive as Directors at Large, are Nelly Koziel and Susan Merchant. Patrick Potter, chair of the Beluga Award Committee tendered his resignation at the AGM. Contact information for all executive members can be found on page 12.



Photos: (top) Paul Keizer (centre) congratulates the new President of the BIO-OA, Mike Hughes; Mike Murphy (right) is the new Secretary; and (bottom) Nelly Koziel (left) and Susan Merchant (right) are new Directors at Large of the BIO-OA Executive.

CSS Acadia Cards

In celebration of the upcoming 100th anniversary of the CSS *Acadia*'s first sailing out of Halifax Harbour to the Arctic, BIO-OA member Iris Hardy painted an 8x10 inch acrylic rendition of the *Acadia*. Reprints of the painting have been produced as 5x7 inch cards, which are available in the BIO gift shop for \$4.00. Proceeds from the sale of these cards are part of a fund raiser for the BIO-OA. Contact Nelly Koziel during normal working hours if you wish to make a purchase (Phone: 426-2740, E-mail: nelly.koziel@nrcan.gc.ca).



Iris Hardy, past Secretary of BIO-OA, with her acrylic painting of the CSS *Acadia* and a sample card.

In Memoriam

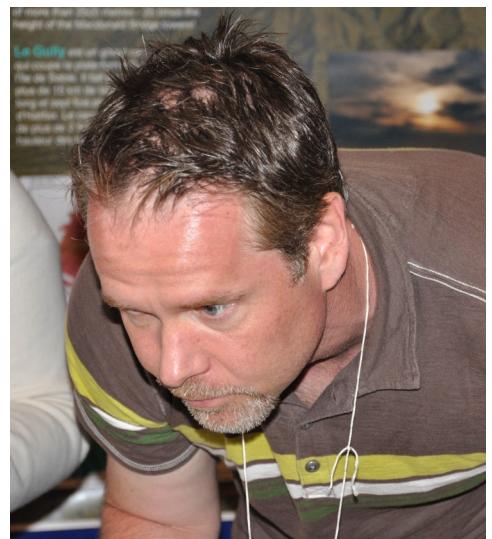
Bernard Roderick Pelletier, died 20 May 2013, BIO 50th Anniversary honouree and former Head of Marine Geology, BIO. For a summary of Dr. Pelletier's many accomplishments, see *Voicepipe* 58:9-10 (April 2013).

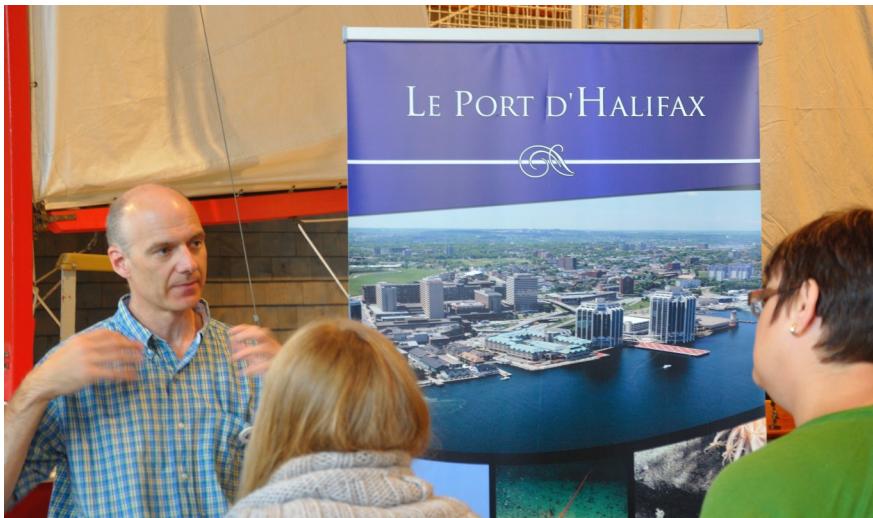
'WORLD OCEANS DAY' 2013 on the Halifax Waterfront

The Maritime Museum of the Atlantic on the Halifax Waterfront was the focus of celebrations for 'World Oceans Day' on 7 June 2013. Government agencies, universities, aboriginal groups, and other non-governmental organizations set up displays for the crowds of Haligonians, youngsters and tourists. Displays from BIO were prominent, with enthusiastic staff members from both Fisheries and Oceans Canada and Natural Resources Canada answering questions. Of particular interest this year was a display by J.D. Irving Ltd. that described the changes in shipping lanes in the Bay of Fundy to help protect the Atlantic Right Whale. A full sized, blow-up juvenile whale complete with barnacles was a favourite of the younger set!



Photos (clockwise from top left): A view of the small boat gallery at the Maritime Museum of the Atlantic on 'World Oceans Day'; Derek Fenton, biologist, Ocean and Coastal Management Division (OCMD), DFO, BIO listens to a visitor's question; Paul Macnab, biologist, OCMD, DFO, BIO holds out a fish from The Gully for a visitor's examination; Leigh-Ann Outhouse, biologist, Species at Risk, DFO, BIO answers questions; and Leah McConney, intern, answers questions on invasive species.





Photos (clockwise from top left): Patrick Potter, geologist, GSC Atlantic (GSCA), BIO explains features on the bottom of Halifax Harbour; CSS *Acadia*'s topsides dressed up for World Oceans Day; setting up displays in the early morning at the Maritime Museum of the Atlantic (from the left) Claudia Currie, Patrick Potter, Jenna Higgins, and Lynn Dafoe, GSCA, BIO; also setting up, Sarah Deller (left) and Glen Herbert (OCMD), DFO, BIO; and Hilary Moors-Murphy (left), biologist, Oceans and Coastal Management Division (OCMD), DFO, BIO answers a question with Jessica Wingfield, oceanography student.



From the Editor's Keyboard: This summer we celebrate the 100th anniversary of the launching and the first expedition of the CSS *Acadia*. On page 11 is a picture of her topsides with flags flying, and on page 9 is the story of the painting and cards Iris Hardy has created to mark the anniversary. The *Voicepipe* has a close connection to the *Acadia*, since it is her brass that graces our masthead. In the April 2013 issue of the *Voicepipe* I wrote a story about Bernie Pelletier's career at BIO and beyond. Unfortunately, we have followed his story in this issue with his inclusion our *In Memoriam* column. Dr. 'BP' will be

missed! Finally, a few words about 'World Oceans Day'. Despite the threat of inclement weather this year, the gathering on Halifax's waterfront was another demonstration of the enthusiasm and commitment of many people to give a voice to the ocean. Nikolaus Gelpke's lecture and Michelle Paon's letter suggest this enthusiasm is not shared as widely or as deeply as needed to actually change perspectives in society or effect the best policies within governments. How do we best become 'advocates for the sea and make the problems in the ocean visible to society?' This big question remains. *Andy Sherin*



ABOUT THE BIO-OCEANS ASSOCIATION

The Bedford Institute of Oceanography Oceans Association (BIO-OA) 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 for five years, or \$150.00 for a lifetime membership.

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