

VOICEPIPE

Issue 54

April 2012

The Newsletter of the BIO-Oceans Association



Don Gordon to be awarded the 2012 Beluga Award

Don Gordon, emeritus scientist with DFO and Vice President of the BIO Oceans Association, will be presented the 2012 Beluga Award in a ceremony to be held in the Ford Auditorium, BIO, on 24 May 2012.

Don's contributions to the BIO community over four decades are numerous and significant. His nominator stated "He has consistently exhibited his trademark characteristic, an ability to bring people together and achieve a remarkable synergy. He loves to create collaborative teams of people with diverse backgrounds from inside and outside of BIO to work on large multidisciplinary projects."

It is fitting on the eve of the award ceremony to include in this issue Don's story about his journey to BIO (See page 6).



BIO Scientist inducted into Hall of Fame

The late Dr. Kenneth H. Mann, former Director and research scientist at BIO and professor at Dalhousie University will be inducted into the Nova Scotian Institute of Science (NSIS) 'Hall of Fame' on 8 May 2012.

Deceased scientists, born or spent a significant portion of their career in Nova Scotia, and have made significant contributions to scientific activity inside or outside the province are eligible to be inducted into the NSIS 'Hall of Fame'.

Dr. Willard S. Boyle, the 2009 winner of the Nobel Prize for Physics, will also be inducted on 8 May 2012.

MARK YOUR CALENDAR
BIO-Oceans Association
AGM and Beluga Award Ceremony
24 May 2012 (10-12 hours)
William Ford Auditorium, BIO

2012
Bedford Institute of
Oceanography
50 years

Contents

BIO 50 th Anniversary Celebrations	2
Upcoming Public Lectures	2
From the President	3
In Memoriam	3
From the Editors Keyboard	3
The Freedom of Science	4
Celebrating the 50 th Anniversary of Rachael Carson's <i>Silent Spring</i>	5
My Voyage to BIO: Don Gordon	6
Noteworthy Reads	7
About the Association	10
What are they doing now or since they left BIO?	11
BIO 50 th Anniversary Public Lectures go from strength to strength	12



BIO Anniversary Celebrations: 1962-2012
BIO at 50– A Voyage of Discovery
A Summary of Activities & Projects

- Retrospective scientific review book:
“Voyage of Discovery –
Fifty years of marine research at Canada’s
Bedford Institute of Oceanography”
- Bibliography of all BIO publications
- Chronology of BIO 1962-2012
- A Photo History of *Hudson* ‘70
- Arctic Fossil Forest Historical Garden planting in the
Courtyard
- Social Media Communications plan – Twitter & Tweets
‘Did you know that...?’, link to website
- Planting of BIO 50th logo in the Dillman Park Garden
- BIO 50th Anniversary School Art/Music Contest

BIO 50th Anniversary Lecture Series

Every month on the second Wednesday at 7:30 pm.



Open House: BIO Expo2012

19-23 September 2012

Mount Saint Vincent University public relation’s students
will review Open House exhibitors’ key messages.



Climate Change & Its Impact on the Ocean Symposium
23-24 October 2012

The Symposium will coincide with the annual
Scientific Committee on Ocean Research meeting
hosted by BIO and Dalhousie University.

Gala 50th Anniversary Celebration
25 October 2012



The official ‘Gala’ will have special
guests including the Governor General (invited), Ministers,
and dignitaries. Staff who were at
BIO in 1962 will be especially
honoured. Music will be provided
by the BIO Choir. The BIO-
Oceans Association will sponsor
a reception for all staff. Best
teams achievements not previously
recognized will be awarded
the Crystal Award.

Upcoming Public Lectures
BIO 2012 Lecture Series

7:30 pm

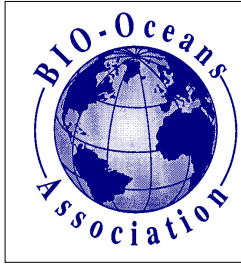
William Ford Auditorium, BIO

- | | |
|--------------|---|
| 11 April | Steve Blasco - The Arctic |
| 9 May | Ken Lee - The 2010 Gulf of Mexico oil spill |
| 13 June | Kumiko Azetsu-Scott - Ocean acidification |
| 12 September | David Mosher - Earthquakes and Tsunamis |

Other lectures and events

- | | |
|-------|---|
| 7 May | Dr. Bernie Lightman –
“Victorian Popularisers of Science” –
NSIS Public Lecture, 7:30 pm
University of King’s College (Alumni Hall),
6350 Coburg Road, Halifax. |
| 8 May | Induction of the late Drs. Kenneth H. Mann
and Willard S. Boyle into the ‘NSIS Hall of
Fame’ – Nova Scotian Institute of Science
150 th Anniversary Banquet, Lord Nelson
Hotel, Halifax, 8:00 pm. MC will be Dr. R.H.
Cook, BIO-OA. |

**Visit www.bio2012.ca for up to date information
on BIO 50th Anniversary events**



FROM THE PRESIDENT

It's hard to believe, but here we are, April 2012, a month away from the BIO-Oceans Association's Annual General Meeting and Beluga Award. The Beluga Award is definitely the highlight of the year for the OA. I am especially excited about this year's

recipient, Don Gordon (see more about the Award's recipient on pages 1 and 6). I was fortunate to be hired by Don in 1971 and had the joy of working with him for many years, first on oil pollution studies, and then the Bay of Fundy tidal power impacts project. Don's trademark was his ability to 'empower' those working with him to set and reach high but attainable goals. This was well before 'empowerment' became a government buzz-word. So please join us on 24 May 2012 to join Don in celebrating his remarkable contribution to the BIO team.

This is also the time for our AGM. For me, this was my first year of participation in the OA, and I must say that I have been struggling with just exactly what the OA is, aside from what is written in our formal documents. I will not try to list the many good things that have been done, or are being done, by the OA and its members, because I am certain to miss some important achievements. More importantly, I would likely overlook the efforts of many of those who have done so much for the OA over the years. But, as with most volunteer organizations, the OA is a direct reflection of the efforts of individuals. We need people to step forward and offer some of their time and talents so that the OA can play a useful role for its members and the BIO.

For the past year we have not had a leader for the OA's social program. Without someone taking a leading role, we did not have any group excursions or our customary summer outing in 2011. While an effort was made to schedule some science talks, that too was difficult without a coordinator. The most recent seminar was cancelled because there was no audience! This was an embarrassment for the OA executives that had made the arrangements and, at the very least, an inconvenience for the speaker. A coordinator is desperately needed to insure that planned events are properly advertised and promoted. Also, after the AGM our long serving secretary, Iris Hardy, will retire and we need someone to fill that role.

Neither of these tasks require a large commitment of time and resources. For the secretary, the executive meets once a month from September to June and for the minutes, brevity is a desirable feature. For the social coordinator, there are many members with ideas for events and speakers and who are willing to assist. We just need someone who will organize responsibility for the necessary tasks and oversee the events.

At the AGM on 24 May, one of the proposed agenda items is a discussion of the OA's role as a champion of marine science. This past year that issue was highlighted by our response to the recommendations being made for the *Hudson* replacement. The OA's response was carefully considered by the executive, but further discussion is warranted regarding the appropriateness of the OA's involvement in this type of activity. It would be very helpful to extend this discussion beyond those attending the executive meetings.

So, please come to the AGM on 24 May, and come prepared to offer to help. We need a secretary for the executive meetings and the AGM. We need someone to lead the social programs. We also need to hear from you about what the priorities should be for the Association. The OA is always open to new ideas and initiatives. If there is something that you think the OA should, or could be doing, bring your ideas to your executive, and more importantly volunteer to help make things happen.

Paul Keizer

In Memoriam

Malcolm Youden, died 2 February 2012, oiler on *Baffin*, *Dawson* and *Hudson*.

Robert Howie, died 17 February 2012, geologist, GSC Atlantic.

Robert Charles 'Bob' Pietrzak, died 1 March 2012, Canadian Hydrographic Service Atlantic.

From the Editor's Keyboard

This issue is full of the strengths that BIO has brought and continues to bring to the world of science and our community. The front page highlights the honours bestowed on two remarkable BIO people and scientists, Don Gordon and Ken Mann, and page 2 has a summary of current BIO 50th events. The public lectures have been a great success with the William Ford Auditorium full to bursting for the lectures by Steve Blasco, Steve Campana, and Gordon Fader. This demonstrates to me the public's hunger to know what is done under the A. Murray MacKay Bridge. These successes are tinged with an urgency when we read the articles by Ray Grigg and Peter Wells, about the challenges that continue to face BIO, all of society and the planet, especially in these times of government austerity. Also, I guess it must be impossible to avoid the *Titanic* 'hysteria' that has gripped Halifax this year. David Nettleship has provided enough reading material in 'Noteworthy Reads' to satiate the most severe *Titanic* addict. I want more stories about your journey to BIO, and like John Woodside's story, where are people now and what are they doing. *Andy Sherin*, Editor

The Freedom of Science

by Ray Grigg ¹

Because science illuminates almost every environmental issue on our planet, it is crucial that this discipline of exploration and understanding be permitted the freedom to follow its enlightening course, unfettered by interference from politics, government, ideology or vested interests. Indeed, as Timothy Ferris explains in his book, *The Science of Liberty*, this freedom is more than just an environmental matter (New Scientist 6 February 2010).

Ferris's premise is that our modern liberal democracies were largely created by the freedom of scientific inquiry, a process which began hesitantly in the Renaissance and then exploded during the 17th and 18th centuries. To achieve these gains, science has always struggled against the belief and dogma of its time -- recall the overt persecution to suppress the theories of Copernicus, Galileo and others as the empirical evidence they gathered collided with religious culture of the day. As science grew in credibility and influence, the liberties earned by its unfettered pursuit of knowledge raised respect for individual rights, free speech and personal autonomy.

Science and society are now so inextricably linked that government policies must be founded on substantial and relevant evidence if they are to be both credible and legitimate. Without the rational weight and authority of science, laws and regulations revert to the medieval frailties of belief and dogma.

History once allowed for mistakes. Foolish and large as they were, their consequences were relatively localized to tribes, villages and valleys, or later, in the age of colonization, to continents such as Europe or the Americas. But a global world amplifies the impact of mistakes. The changes we now introduce with our behaviour are planetary. The process we now use for making decisions, therefore, must be more comprehensive and detailed, disciplined and thoughtful, rigorous and rational. Governing without due regard to science and its conclusions is no longer an option.

Science denied or science muzzled is a threat to entire political and economic systems, even to the viability of whole societies. Policies that don't respect scientific processes and the weight of its information revert to a primitivism that is guided by the forces of impulse, power, personality and superstition. They have no substantial credibility.

In today's world, people and governments that do not give high regard to the scientific method, together with the objective thinking that arises from it, risk degeneration and collapse. Scientific reason doesn't guarantee intelligent decisions and policy, but it is a far better option than the alternative -- note North Korea, most Arab countries, and the United States with its rise of religious conservatives. "Whenever the people are well-informed," observed Thomas Jefferson in 1789, "they can be trusted with their own government." Knowledge, therefore, is power. Opinion that is unfounded in evidence is dangerous

and hostile to civilizations, not to mention the serious environmental challenges facing our planet.

We live in curious times. We wouldn't fly in a plane that was designed without the strict laws of aerodynamic science, nor would we take medicine that pharmacological science had not deemed to be safe and effective. Yet, when environmental science measures mounting levels of globally destructive greenhouse gas emissions, acidifying oceans, unprecedented species loss and a plethora of other unfolding threats, these pronouncements are mostly met with shrugs of collective incredibility, as if the science were vapid speculation. This response is curious given that we live in a world saturated with countless demonstrations of science's validity.

Nature responds to the same physical realities measured and described by science. Indeed, science is the mirror of nature, and the discipline of theorizing and experimenting is the process of polishing and examining that mirror. Nature is not influenced by hoping or wanting. It is unmoved by opinion. It doesn't care about our economic or cultural aspirations. If we make mistakes or miscalculate, it responds with an impersonal indifference that will offend those who think it is a caring friend.

Science is our connection to nature's character. We either use our reasoned intelligence to utilize its potential or we fall victim to its impassive power. The equation is that simple. The rules are clear and the effect can be liberating if we measure and act carefully. If we do not, we will meet confusion, disorder and trauma.

In our short history as humans, we have now reached a crossroads where we must choose science over superstition, concern over indifference, volition over passivity, and compliance over wilfulness. As we initiate unprecedented structural environmental changes in the world around us, waffling and procrastinating are fatal mistakes. For those who doubt, just listen to the storms rage, watch the waters rise, feel the heat intensify, notice ecologies alter and species disappear into extinction. These changes are not imagined; science confirms this trend as solid evidence. This is not nature's vengeance; it is what we have incited nature to do.

If we don't want nature's abuse, then we must learn its language, study its ways, and comply with its character. And we can do this best by freeing science from political ideology, personal prejudices, power struggles, religious beliefs and economic aspirations. Science has brought us immeasurable benefits since its inception just a few brief centuries ago. If we can free it to find a harmonious balance with nature's imperatives, it can carry us forward to wonderful possibilities.

¹Originally published in the *Campbell River Courier-Islander* newspaper (Vancouver Island, B.C.), 10 February 2012: page 13. Author Ray Grigg writes a weekly environmental column 'Shades of Green' in the *Campbell River Courier-Islander*; the column is also distributed to several websites in British Columbia.

Celebrating the 50th Anniversary of Rachel Carson's *Silent Spring*

by Peter G. Wells¹

Silent Spring, widely considered to be one of the most influential books of the 20th century, celebrates its 50th anniversary this year. (1962. *Silent Spring*. Riverside Press, Houghton Mifflin, Cambridge, MA). It was penned by Rachel Carson, a former US Fish and Wildlife Service marine biologist then working independently due to the success of her earlier publications – *Under the Sea-Wind*, *The Sea Around Us*, and *The Edge of the Sea*. All of Carson's books are still in print. *Silent Spring*, initially featured in the *New Yorker* and published as a book in September 1962, became an instant bestseller. It describes the rampant use of pesticides and the ecological effects that they may have on wildlife and supporting food chains.

So, why is the book still so famous, and what influence has it had on individual lives and society as a whole? As you read this note, think about whether the book or Carson's other classics have had an impact on your personal life. For me, *Silent Spring* was required reading in my first ecology course at McGill (1966-67), and was read and reread. I found the book both informative and infuriating. It was well researched and was (and still is) a good introduction to environmental toxicology. It provided evidence of the harmful effects on wildlife and humans of many pesticides, and the wilful role of the chemical and agricultural industries in their over use and misuse, to the detriment of environmental quality. The book's messages (control toxic chemicals, understand their impacts on both humans and wildlife, protect ecosystems from the bioaccumulation of poisons) became the imperative to chose a career in marine environmental science.

At the time, Rachel Carson became an icon for many persons in the nascent environmental field. The 1960s and 1970s were a period when the motives and policies of governments and industries were publicly suspect, and eco-activism was growing and very strong. The book stimulated much discussion about pesticide use and the increased degradation of terrestrial and aquatic ecosystems from many causes. Carson faced considerable opposition from the chemical industry, but the work, published in many languages, formed a large part of the engine of the 'environmental revolution' of the 1960s and onwards. Most importantly, discussions about the *Silent Spring* and its implications within governments in North America and elsewhere led to new legislation and new institutions. Within a few years, there was the US Environmental Protection Agency (EPA), Environment Canada, new legislation (in Canada: a revised Fisheries Act, the Wildlife Act, the Ocean Dumping Control Act, the Contaminants Act, and eventually the Canadian Environmental Protection Act), and internationally, Earth Day, the 1972 Stockholm Conference



Rachel Carson

Photo credit: The Natural Patriot posted 27 May 2007

on the Human Environment, the United Nations Environmental Programme, and the United Nations Convention on Law of the Sea. As well, new environmental and conservation groups started, such as Greenpeace and Friends of the Earth, or were strengthened due to increased public awareness about the value of healthy wildlife and ecosystems. These institutions and groups are mostly still operating, despite constant challenges of funding and politics.

Carson's legacy includes her books, groups formed to celebrate her, coastal lands protected in her name (e.g. such as the National Wildlife Refuge along the southern coast of Maine), and inspiration from her example. We are fortunate now to live in an era of millions of persons and thousands of groups working on behalf of the environment. Carson's legacy remains strong and deserves special recognition in this 50th anniversary year of her most famous work, *Silent Spring*. So if you can, read or revisit the book, reflect on the messages, gain strength from remembering Carson's commitment to the environment, and renew your personal commitment to whatever role you are playing in protecting and conserving nature in its fullest. Individually and together, we can continue to make a difference in this quest, as shown by a courageous lady writing an environmental classic many years ago.

¹Peter Wells is a member of BIO-OA and Editor of the Proceedings of the NSIS and can be reached at oceans2@ns.sympatico.ca

This article was originally published in the *Gulf of Maine Times*, 29 March 2012

MY VOYAGE TO BIO

by Don Gordon

My voyage to BIO began on the banks of the Hudson River with lots of interesting ports of call along the way. By the time I was in high school, I was fascinated by the sea and wanted to be an oceanographer. Summer vacations on Cape Cod and brief visits to Woods Hole Oceanographic Institution (WHOI) had a profound impact on me. In 1958, I graduated from high school and went to Hamilton College in upstate New York. There was no oceanography in their curriculum, but my advisor wisely made sure that I got a solid foundation in biology, geology, chemistry, physics and math. I was also fortunate to be able to spend summers working and studying at the Marine Biological Laboratory in Woods Hole.

After majoring in geology, I graduated from Hamilton in 1962. Unbeknown to me, that was the year that BIO first opened its doors. That summer I gained my first sea-going experience by sailing on the original *Atlantis* out of the WHOI. We did benthic sampling on the continental slope south of New England until we got hit by a hurricane and spent several days 'hove-to' with the decks awash. That was the first, but not last, time that I was seasick.

In the fall of that year, I started a master's degree program in biological oceanography at the Graduate School of Oceanography at the University of Rhode Island. My thesis research, conducted under the guidance of Howard Sanders at WHOI, was on the bioturbation of intertidal sediments by polychaetes. I also had the opportunity to take two long cruises on the *Trident*, one to West Africa and one to South America, as well as spending summers at either Woods Hole or the Bermuda Biological Station.

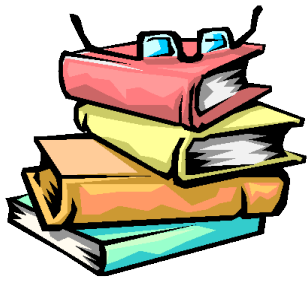
While doing my master's degree, I met Peter Wangersky who, at that time was at the Bingham Oceanographic Laboratory at Yale University. He got me interested in organic matter in seawater and suggested I do a PhD on this topic under the guidance of Gordon Riley, also at Bingham. However, they were not happy with the state of affairs at Yale and told me they would probably be moving to another university in the near future. A few months later they announced that they were moving to Dalhousie University where Gordon would become the new Director of the Institute of Oceanography. Knowing very little about Canada at that time, my first question was where is Dalhousie? One of the deciding factors in their decision was the existence of a newly established federal oceanographic institute across the harbour which had a fleet of excellent research vessels. This was the first time I had heard of BIO. They encouraged me to apply which I promptly did. I was delighted to be accepted and eagerly moved to Halifax in September 1965.

I immediately fell in love with Halifax, Nova Scotia, and Canada, and enjoyed three wonderful years as a Dalhousie graduate student. It was here that I met my wife to be, Joleen

Aldous, who was an honours marine biology student and one of first women to sail on the *Hudson*. Soon after I arrived, I started going over to BIO for seminars and got to know some of the staff. My thesis research on the dynamics of particulate organic carbon in the deep ocean required spending a lot of time in the field collecting samples and so I participated in cruises on BIO vessels *Hudson*, *Sackville*, *Baffin*, and *Dawson* throughout the North Atlantic. This was a wonderful experience for these BIO research vessels, while more formal in atmosphere, were far superior to the US oceanographic vessels I had sailed on. I defended my thesis in September 1968 and a few days later Joleen and I were married. Bill Ford, BIO director at the time and a long-time friend of the Aldous family, gave the toast to the bride. Immediately after the wedding reception, we left Halifax and journeyed to Honolulu where I took up a position as an assistant professor at the University of Hawaii. I taught several courses in chemical oceanography in the Department of Oceanography and also had a research appointment with the Hawaii Institute of Geophysics. While there, I established an oceanographic reference station in offshore waters called Station Gollum, patterned after the Bermuda hydrostation in the Atlantic, where we sampled monthly for numerous oceanographic variables using either the *Teritu* or *Mahi*. These short cruises were quite demanding, as the vessels were small and the trade winds strong. Working in the North Atlantic on *Hudson* was much more pleasant. I also had the opportunity to conduct ecological studies on Fanning Island, a remote atoll in the Line Islands just north of the equator.

As much as we enjoyed the experience of living and working in a very different part of the world, it was always our intention to return to Nova Scotia if at all possible. I made certain to keep in touch with Gordon Riley, Bill Ford, and Lloyd Dickie about possible openings. One day in March 1970, I got a call from Lloyd Dickie offering me a job. The Marine Ecology Laboratory at BIO, then part of the Fisheries Research Board, was creating a new division devoted to pollution research and Lloyd wanted me to become head. We were blown over by this wonderful news and, of course, accepted the offer immediately. It took about six months to wrap up our obligations in Hawaii and we arrived at BIO in early October 1970 after a pleasant drive across the continent. Within the first week, I signed in as a new research scientist and Head of Environmental Quality, moved into the expanded trailer complex behind the Fish Lab, purchased our house in Dartmouth and bought our first Gate's canoe. On top of this, a few weeks later we learned our first child was on the way.

We were most appreciative of the opportunity to return to Nova Scotia and were more than ready to put down anchor at BIO. These were growing times for oceanography in Canada and I eagerly looked forward to developing an exciting career as a research scientist in a world-class institute knowing that many more adventures were ahead.



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 REVIEW:

100TH ANNIVERSARY OF THE TITANIC TRAGEDY

THIS SPECIAL SELECTION OF BOOK TITLES COMMEMORATES THE 100TH ANNIVERSARY OF THE COLLISION AND SINKING OF SS TITANIC (14-15 APRIL 1912), AND THE TRAGIC LOSS OF OVER 1500 LIVES TO THE NORTH ATLANTIC. THE HUMBLING REALIZATION IS THAT EVEN THE LARGEST AND MOST CAREFULLY DESIGNED OCEAN LINER IS VULNERABLE TO THE NATURAL FORCES OF NATURE. THE BOOKS IDENTIFIED SPAN THE INTEREST RANGE OF THE MARITIME/NAUTICAL HISTORIAN AND SPECIALIST, ADULT AND YOUNG READER, TO THE 'TITANIC' AFICIONADO AND MARINE ENTHUSIAST. THEY REPRESENT ONLY THE 'TIP OF THE ICEBERG' OF THE ADDITION TO THE TITANIC LITERATURE DURING THIS CENTENNIAL YEAR.

Local Classics

Brown, Richard. 2012. Voyage of the Iceberg: The Story of the Iceberg that Sank the Titanic (new edition with a preface by D.N. Nettleship). James Lorimer & Company, Publishers, Toronto, ON. 160 pages. Softcover, \$19.95 (ISBN 978-1459400870). -- A classic work of natural history, in a new edition to coincide with the 100th anniversary of the sinking of the SS *Titanic*. This is the story of the most famous iceberg of all time — the iceberg that has gripped the imagination of the world, that humbled human technology and dramatized the wonders and dangers of the North Atlantic Ocean. Author Richard Brown uses the iceberg's story to present the natural history of the Arctic Ocean and the North Atlantic at the turn of the twentieth century. With an expert's understanding of natural history and an authentic storyteller's voice, Brown weaves these storylines together as the iceberg slowly drifts south from northwest Greenland down the coasts of Baffin Island and Labrador to its fateful encounter with the world's most famous ship. First published in 1983 and championed by publishers worldwide, this extensively illustrated new edition is a beautiful and compelling read. Dr. Brown was one of Canada's foremost experts on sea-going birds and worked for many years as a marine biologist with the Canadian Wildlife Service at the Bedford Institute of Oceanography. David Net-

tleship was his friend and colleague for over 30 years. (Kathy Chapman, Formac Publishing)

Ruffman, Alan. 1999. Titanic Remembered: The Unsinkable Ship and Halifax. Formac Publishing, Halifax, NS. 72 pp. Softcover, out-of-print (ISBN 978-0887804670). – An important contribution by Halifax marine geologist and historian Alan Ruffman to the R.M.S. *Titanic* literature by relating the tragic story of the state-of-the-art ocean liner from a Canadian and Nova Scotian viewpoint. This small, well-written and informative book, offers great value through its original research and accurate interpretations along with striking photo illustrations, both old and contemporary, showing key features presented in the text. *Titanic Remembered* also provides a vivid account of Halifax's role in the disaster owing to its geographic location – the nearest large port to the disaster site -- and the difficult and lengthy aftermath of *Titanic*'s sinking including the burial of 121 *Titanic* victims in the Fairview Lawn Cemetery. It describes a city in mourning and how the people responded to one of the greatest marine tragedies ever. Although now out-of-print, this unique account of the *Titanic* saga remains available through used booksellers (for details, see Abebooks.com) and is a necessary addition to the library of anyone interested in maritime history or the *Titanic* disaster itself – a classic and a gem!

Recent Publications on the 'Titanic'

[* Title not yet released]

Bartlett, Wayne B. 2012. Titanic: 9 Hours to Hell, the Survivors' Story. Amberley Publishing, Stroud (Gloucestershire), England. 368 pp. Softcover, \$27.70 (ISBN 978-1445604824). – A major new history of the disaster by presenting first-hand accounts of several survivors that survived the nine hours between the iceberg strike twenty minutes before midnight, 14 April 1912, until they were picked up with 700 others by 0830h the next morning.

Bartlett, Wayne B. 2012. Why the Titanic Sank.* Amberley Publishing, Stroud (Gloucestershire), England. 192 pp. Softcover, \$19.90 (ISBN 978-1445604824). – A revealing expose of why the largest ship in the world was lost and what we can learn from the loss of the *Titanic*.

Boileau, John. 2012. Halifax and Titanic. Nimbus Publishing, Halifax, NS. 168 pp. Softcover, \$19.95 (ISBN 978-1551098951). -- An illustrated history of the role of the city of Halifax as the base of recovery operations of victims from the *Titanic* tragedy, and the aftermath for the burial of 150 of the 209 recovered and brought ashore. A most revealing overview of a horrific event.

Brewster, Hugh. 2011. Deadly Voyage: R.M.S. Titanic, Jamie Laidlaw, Crossing the Atlantic, 1912. Scholastic Canada, Markham, ON. 208 pp. Softcover, \$14.99 (ISBN 978-1443104654). – A book of historical fact and fiction aimed at young readers, though of value to anyone with an interest in the *Titanic* disaster. The story is told through the eyes of a fic-

tional 14-year-old survivor, Jamie Laidlaw, who provides a vivid and accurate account of life on board before and after the crash, with the people and actions presented actual and true to history.

Brewster, Hugh. 2012. *RMS Titanic: Gilded Lives on a Fatal Voyage*.* HarperCollins Canada, Toronto, ON. 320 pp. Hardcover, \$29.99 (ISBN 978-1443405300). – A dramatic portrayal of the diversity of people on board – from stokers and the impoverished to society ladies and millionaires – and their reactions to events of the night including those who survived and those who died. A moving portrait causing us to ask “What would we do?”

Butler, Daniel Allen. 2012. “Unsinkable”: The Full Story of the RMS Titanic. DaCapo Press, Cambridge, MA. 312 pp. Softcover, \$18.50 (ISBN 978-0306820984). – First published in 2002, this is a well-researched and balanced account of the disaster and aftermath, assessing the mishaps responsible for the sinking and loss of 1,500 lives.

Cooper, Gordon J. 2012. *Titanic Captain: The Life of Edward John Smith*. The History Press, Brimscombe, Stroud (Gloucestershire), England. 256 pp. Hardcover, \$25.95 (ISBN 978-0752460727). – A biography that tracks the career of Captain John Smith from his early teen-aged years in the merchant navy to his senior commander status with steamships of the White Star Line. His movements and motives on the fateful night of 14 April are assessed in detail.

Davenport-Hines, Richard. 2012. *Voyagers of the Titanic: Passengers, Sailors, Shipbuilders, Aristocrats, and the Worlds They Came From*. William Morrow, New York, NY. 352 pp. Hardcover, \$29.99 (ISBN 978-0061876844). – A meticulous and detailed account of the Titanic’s passengers – men, women, and children – their hopes and dreams, and the social stratification that played out between first, second, and third class during the vessel’s fateful last night. An important new synthesis of new and old points of view.

Ellis, Sarah. 2011. *That Fatal Night: The Titanic Diary of Dorothy Wilton, Halifax, Nova Scotia, 1912*. Scholastic Canada, Markham, ON. 176 pp. Hardcover, \$14.99 (ISBN 978-0545980739). – A ‘Dear Canada’ series book that provides a fascinating novel for younger readers, especially girls, to enjoy and learn from. Twelve-year-old Dorothy shows great courage and initiative in coping with survivor’s guilt and her trauma.

Fitch, Tad, J. Kent Layton and Bill Wormstedt. 2012. *On a Sea of Glass: The Life & Loss of the RMS Titanic*.* Amberley Publishing, Stroud (Gloucestershire), England. 488 pp. Hardcover, \$79.89 (ISBN 978-1848689275). – A new, sumptuously illustrated history of the *Titanic*, her sinking and its aftermath. With over 300 images (50 in colour), many rare and unique, the authors bring the tragedy to life. A true and absorbing memorial.

Gibson, Allen. 2012. *The Unsinkable Titanic: The Triumph Behind a Disaster*.* The History Press, Brimscombe, Stroud

(Gloucestershire), England. 304 pp. Hardcover, \$32.95 (ISBN 978-0752456256). – A unique and refreshing defense of *Titanic* arguing that the ship represented a considerable achievement in nautical design and construction. The true causes of the disaster are exposed.

Gracie, Archibald. 2012. *The Truth About the Titanic*. Amberley Publishing, Stroud (Gloucestershire), England. 224 pp. Softcover, \$19.50 (ISBN 978-1445605944). – A new edition of the first-hand account by Colonel Archibald Gracie, written and published only months after the tragic event in 1912. The focus is on the last few hours before the sinking and his miraculous escape, and that of other lifeboats. This book is considered the most accurate of the eyewitness accounts.

Hart, Eva. 2012. *A Girl Aboard the Titanic: A Survivor’s Story*.* Amberley Publishing, Stroud (Gloucestershire), England. 224 pp. Hardcover, \$29.90 (ISBN 978-1445600895). – The remarkable memoir of Eva Hart, a 7-year old passenger on the doomed *Titanic*, as told to her close friend Professor Ron Denney, who aided her in writing up her memories of that tragic night.

Holman, Hannah. 2012. *Titanic Voices: 63 Survivors Tell Their Extraordinary Stories*. Amberley Publishing, Stroud (Gloucestershire), England. 464 pp. Hardcover, \$41.70 (ISBN 978-1445602226). – The most comprehensive collection of accounts by *Titanic* survivors ever published, many from women who were forced to abandon husbands and teenage sons. These 63 memoirs together with expert editorial commentary form an invaluable information resource.

Hume, Yvonne. 2012. *RMS Titanic: The First Violin – The Life, Loves and Loss of the Titanic’s Violinist, John Law Hume*. Nimbus Publishing, Halifax, NS. 96 pp. Softcover, \$15.95. (ISBN 978-1551099187). – Written by his great niece, the ‘First Violin’ provides a detailed examination of the life and accomplishments of *Titanic*’s principal violinist John Law Hume. The book recounts the horrific aftermath including the recovery and burial of John Hume in Halifax. Also included is a short forward by Millvina Dean, *Titanic*’s last survivor. (see also: Turner 2011, Ward 2011)

Hustak, Alan. 2012. *Titanic: The Canadian Story – Centennial Edition*. DV3 Press, Niagara Falls, ON. 192 pp. Softcover, \$26.95 (ISBN 978-0986897809). – The revised centennial edition, with new photographs and material, retells the history of the *Titanic* from a Canadian perspective and the true-life stories of the 130 Canadian-bound passengers on board.

Hutchings, David and Richard de Kerbrech. 2011. *RMS Titanic 1909-1912 (Olympic class): Owners’ Workshop Manual*. Zenith Press (Quayside Publishing), Minneapolis, MN. 160 pp. Hardcover, \$30.00 (ISBN 978-0760340790). – An insight into the design, engineering, construction and history of the most famous passenger ship of all time with an authoritative text and over 200 illustrations.

Kentley, Eric. 2012. *Story of the Titanic*. Dorling Kindersley, New York, NY. 32 pp. Hardcover, \$19.99 (ISBN 978-0756691714). – This super-illustrated, oversized volume is directed towards young readers, grades three to eight. The double-page illustrations by Steve Noon are outstanding, as is the brief and informative text that together provide details of *Titanic* from construction to the rescue of its survivors.

Klistorner, Daniel. 2012. *Titanic in Photographs*. The History Press, Brimscombe, Stroud (Gloucestershire), England. 160 pp. Hardcover, \$32.95 (ISBN 978-0752458960). – From the authors of the acclaimed 2-volume '*Titanic: The Ship Magnificent*' (2008) comes the most visual documentation of the vessel ever published. A 'must-have' for any *Titanic* fan!

Korman, Gordon. 2011. *Titanic Book One: Unsinkable* (Softcover, 160 pp., \$6.99 ISBN 978-0545123310); **2011. *Titanic Book Two: Collision Course*** (Softcover, 160 pp., \$6.99 ISBN 978-0545123327); and **2011. *Titanic Book Three: S.O.S.*** (Softcover, 176 pp., \$6.99 ISBN 978-0545123334). Scholastic Canada, Markham, ON. – A delightful and entertaining trilogy on the history of the *Titanic* from its beginnings to its fateful end for young and older readers alike. The 3-volume novel is a mystery, centred on activities of four fictional young passengers, that spins a lively tale and provides a slice of history along the way. Overall, an enjoyable and gripping narrative of a tragic historical event.

Life Editors. 2012. *LIFE Titanic: The Tragedy that Shook the World – One Century Later*. Life, New York, NY. 144 pp. Hardcover, \$32.95 (ISBN 978-1603202137). – An oversized, deluxe commemorative LIFE book that displays the superb skills of the editors. The selection of archival photographs and past reports combined with the results of modern-day explorations go a long way in telling the story of the *Titanic* disaster and where it fits in the grand picture today.

Pierce, Nicola. 2012. *Spirit of the Titanic*. Boulder Publications, Portugal Cove – St. Philip's, NF. 216 pp. Softcover, \$13.99 (ISBN 978-1927099063). – A fictional account of the death of a 15-year-old boy helping with the construction of *Titanic*, and his subsequent presence on board as a ghost through the ill-fated voyage across the Atlantic. Astute observations are presented of the environment and atmosphere of first to third class passengers and their common fate.

Rondeau, Rob. 2012. *Titanic Lives: On Board, Destination Canada*.* Formac Publishing, Halifax, NS. 112 pp. Softcover, \$19.95 (ISBN 978-1459500198). – The unique and compelling stories of ten of the more than 100 people on board *Titanic* bound for Canada. Some were wealthy and renowned, most were not, but they did share the nightmare of *Titanic*'s death.

Rostron, Arthur. 2011. *Titanic Hero: The Autobiography of Captain Rostron of the Carpathia*. Amberley Publishing, Stroud (Gloucestershire), England. 192 pp. Softcover, \$21.90 (ISBN 978-1445604206). – A reissue of the account of the rescue of 710 *Titanic* survivors by the *Carpathia*. The quick re-

sponse by Captain Rostron to *Titanic*'s distress call and his careful preparation to receive large numbers of injured people aboard *Carpathia* while steaming to *Titanic*'s position made all the difference to those survivors rescued – an outstanding effort and accomplishment.

Turner, Steve. 2011. *The Band that Played On: The Extraordinary Story of the 8 Musicians Who Went Down with the Titanic*. Thomas Nelson, Stamford, CT. 272 pp. Hardcover, \$27.99 (ISBN 978-1595552197). – Historian and biographer Steve Turner delves into the lives of each of the eight *Titanic* musicians who sacrificed all chance of survival for the welfare of passengers – unique portraits of courage and bravery. (see also: Ward 2011, Hume 2012)

Walker, Alastair. 2012. *Four Thousand Lives Lost: The Inquiries of Lord Mersey Into the Sinking of the Titanic, The Empress of Ireland, the Falaba and the Lusitania*.* The History Press, The History Press, Brimscombe, Stroud (Gloucestershire), England. 200 pp. Softcover, \$25.95 (ISBN 978-0752465715). – A re-examination of four of the most famous ship disasters in maritime history that took a total of 4,000 lives, all within a 4-year span with inquiries headed by Lord Mersey, John Charles Bigham. Lord Mersey was considered to be biased, a government stooge, willing to whitewash events in favour of his political masters. The evidence is assessed.

Ward, Christopher. 2011. *And the Band Played On: The Titanic Violinist and the Glovemaker – a true story of love, loss and betrayal*. Hodder & Stoughton (Hachette Publishing Group), London, England. 288 pp. Hardcover, \$34.99 (ISBN 978-1444707946). – An engrossing and sad story about *Titanic*'s aftermath by Christopher Ward, the grandson of Jock Hume, a 21-year-old violinist in the ship's famous band whose body was recovered and buried in Halifax, Nova Scotia. A deeply personal story of a family investigation. (see also: Turner 2011, Hume 2012)

White, John D.T. 2012. *The RMS Titanic Miscellany*. Irish Academic Press, Dublin, Ireland. 304 pp. Softcover, \$18.92 (ISBN 978-0716531562). – An informative and wide-ranging fact book of *Titanic* lore and legend with a definite Gaelic twist. The mostly single-paragraph blurbs presented provide a special insight into the ship, its construction in Belfast, her crew and passengers, fate of survivors, and subsequent investigations, movies, legends and myths. A unique treasure trove of miscellany on the most famous ship in history.

Wilson, Andrew. 2012. *Shadow of the Titanic: The Extraordinary Stories of Those Who Survived*. Atria Books, New York, NY. 416 pp. Hardcover, \$28.99 (ISBN 978-1451671568). – Adds an important new dimension of what happened to the 705 survivors after the tragedy based on previously unpublished letters, memoirs and diaries along with interviews of survivors' family memories.

Wolf, Allan. 2011. The Watch That Ends the Night: Voices from the Titanic. Candlewick, Somerville, MA. 480 pp. Hardcover, \$25.00 (ISBN 978-0763637033). – A masterful novel in verse by poet and storyteller Allan Wolf that recreates *Titanic's* ill-fated voyage through the voices of passengers and crew that span classes and stations. Altogether, a most breathtaking and intimate glimpse at the lives behind this human tragedy.

Young, Filson. 2011. Titanic: The Untold Story. Amberley Publishing, Stroud (Gloucestershire), England. 157 pp. Hardcover, \$29.90 (ISBN 978-1445604077). – The first published account of the *Titanic* disaster – 22 May 1912 – by influential journalist and writer Filson Young based on first-hand testimony of survivors and his own observations of the ship's construction in Belfast, Ireland.



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.

OFFICERS AND DIRECTORS

PRESIDENT
VICE-PRESIDENT
VICE-PRESIDENT

Paul Keizer 466-7590
Mike Hughes 860-0784
Don Gordon 469-2798(h)
426-3278(o)

keizerp@gmail.com
hughes@accesswave.ca
donald.gordon@dfo-mpo.gc.ca

PAST PRESIDENT
SECRETARY
VICE SECRETARY
TREASURER
DIRECTORS AT LARGE:

Betty Sutherland 454-6557
Iris Hardy 861-4797
David McKeown 477-5887
Lori Collins 466-3791
Bob Cook 868-2948
Gordon Fader 455-6100
Timothy Lambert 426-3872
Carol Manchester 861-3509
Georgina Phillips 823-3401
Tom Sephton 244-6080
Bosko Loncarevic 835-9606

jesuther@dal.ca
bob.iris@ns.sympatico.ca
davidmckeown@hfx.eastlink.ca
lcollins@accessable.net
roberthcook@eastlink.ca
gordon.fader@ns.sympatico.ca
tim.lambert@dfo-mpo.gc.ca
c.manchester@ns.sympatico.ca
tandgphillips@eastlink.ca
tom.sephton@dfo-mpo.gc.ca
bosko@ns.sympatico.ca

COMMUNICATIONS: NEWSLETTER, PR, AND WEB SITE

NEWSLETTER EDITOR
ASSOCIATE EDITORS

Andy Sherin 466-7965
David Nettleship 826-2360
Betty Sutherland see above
Clive Mason 426-4163
Patrick Potter 426-6601
Philip Spencer 426-4465

oanewslettereditor@gmail.com
dnnlundy@navnet.net
see above
clive.mason@dfo-mpo.gc.ca
patrick.potter@NRCan-RNCan.gc.ca
philip.spencer@NRCan-RNCan.gc.ca

PR AND MEMBERSHIP
WEBMASTERS

COMMITTEES / WORKING GROUPS: CHAIRS

BELUGA AWARD
BIO COMMEMORATIVE STAMP
EQUIPMENT ARCHIVES
GRAPHIC DESIGN
HMCS *SACKVILLE* HISTORY
LIBRARY ARCHIVES
LIAISON Huntsman & BIO 50th
NSIS LIAISON
OUTREACH
SOCIAL PROGRAMS

Patrick Potter 426-6601
Dale Buckley 434-5734
David McKeown see above
Art Cosgrove 443-7945
Keith Manchester (contact) 861-3509
Bosko Loncarevic 835-9606
Don Gordon see above
Bob Cook see above
Charles Schafer 861-3145
Vacant 999-9999

patrick.potter@NRCan-RNCan.gc.ca
dbuckley@ns.sympatico.ca
see above
acosgrove@hfx.eastlink.ca
k.manchester@ns.sympatico.ca
bosko@ns.sympatico.ca
see above
see above
charlestschaffer@hotmail.com
xxxx@xxx.xx

PAST PRESIDENTS

Robert Reiniger (1998-2000), Dale Buckley (2000-02), David Nettleship (2002-04), Donald Peer (2004-06), Betty Sutherland (2006-08 and 2010-11), Bob O'Boyle (2008-10)



John Woodside's going-away party in 1989 at the home of Bosko and Carol Loncarevic. John Woodside is in the supine position in front.

My European activities since I left BIO?

by John Woodside

In general, it is probably not complicated to work out what people are doing since they left BIO: much the same as they were doing when they were still at BIO, but somewhere else and maybe in a different format! In my case, I remain a marine geologist/geophysicist and have spent the past 23 years, after dropping off the BIO radar screen, by going to sea, writing papers, teaching, and having a good time. In that respect nothing much has changed.

My recent expeditions at sea have been to less exotic places than the Labrador Sea or Northwest Passage. My 17 post-BIO cruises took place on ten different ships in the Mediterranean and Black Seas, and my working colleagues were mainly from Europe and Mediterranean countries. The work has been exciting and not all been research and teaching. My Russian shipmates, especially, love a good time. They can create an event almost as rousing as a good impromptu Newfie 'knees-up' below decks after a long day of coring and dredging or running seismic lines!

Friends often ask me if I plan to go 'home', meaning back to Canada, now that I am retired. The simple answer is that I am home. I have lived longer in our present house than in any other previous house: I have worked longer here than at any previous job and my grandchildren were born here! My roots are in the Netherlands now. That is not to say that I do not enjoy returning to Canada on a regular basis, or that I don't miss my friends and colleagues from BIO. But life is where you make it and roots are where your family is.

Since retiring, I have continued some of my research with old colleagues that I worked with during the last two decades. It

seems a bit strange for me to focus lately on mud volcanoes and fluid seeps on the seafloor. My first research expeditions in Europe were investigations of the tectonics of the African-Eurasian plate collision process in the Mediterranean region: in the Alboran Sea, the Sicilian Channel, Mediterranean Ridge and Hellenic Arc, and the Cyprus Arc. I used mud volcanoes in the Anaximander Mountains (where the Cyprus and Hellenic arcs join) to obtain samples from the underlying basement, which turned out to have a distinctive Turkish geologic character. After awhile, the mud volcanoes and seeps began to appear more interesting after we discovered they supported curious chemosynthetic fauna and contained gas hydrates. One thing leads to another.

I have been very fortunate in the opportunities that have presented themselves and the substantial support received for the research resulting from them. The research opportunities included seven dives in the submersible *Nautilie* to a number of fascinating locations on the Mediterranean seafloor, Ocean Drilling Program Leg 160, and a series of sea-going expeditions with students within the 'Training Through Research' program that we set up with Russian colleagues.

At the Vrije Universiteit, Amsterdam, the Netherlands, I taught a number of courses and supervised students in marine geological research. We always took good numbers of students to sea with us.

In short, life has continued to be busy, exciting, and highly enjoyable since I left BIO in 1989. There is life after BIO! Europe is a fascinating place to live and the Netherlands is well situated in the middle of it. There have certainly been great opportunities here and it has been great fun to work and live in Europe.

BIO 50th Anniversary Public Lectures go from strength to strength



Steve Campana delivered the second BIO Public Lecture in celebration of BIO's 50th anniversary to another capacity audience on 10 February 2012. Steve dispelled myths about sharks and described their place in the ecosystem as a predator. "Most people have learned about sharks from the movie *Jaws*", he said. His talk was particularly popular with the younger members of the audience who asked many questions.

Figures (clockwise from top left): Flying sharks?; Another packed Ford Auditorium; "Smiling shark" and Steve Campana; Watch out Claudia!; Borbeagle sharks on ice were very popular; Steve Campana gestures during his talk.