

# 2017 BOARD OF DIRECTORS ELECTION

## MARINE RENEWABLES CANADA

### 2017 Nominees

The following six (6) members have agreed to have their names put forward for the 2017 Marine Renewables Canada Board of Directors:



**Bruce Cameron, Principal Consultant**  
**Envigour Policy Consultant Inc.**

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I am currently Principal Consultant for Envigour Policy Consulting Inc. I serve clients with diverse needs for strategic energy policy advice in areas such as carbon pricing, efficiency financing, New England and Atlantic Canada electricity markets and marine renewable energy economic opportunities. Prior to my retirement in early 2016, I was Executive Director of Renewable and Sustainable Energy with the Nova Scotia Department of Energy. I led the Department's initiatives and programs for electrical and renewable energy research, regulatory development, policy and programs, as well as energy conservation, and energy planning for sustainability. These responsibilities included leading the work to develop and implement Nova Scotia's policies, plans, and legislation on marine renewable energy. Also lead for Nova Scotia on federal-provincial energy matters (2007-2016).

#### **ACADEMIC BCKGROUND:**

B.A. Sociology and Psychology Carleton University in Ottawa Canada 1973; Bachelor Journalism (Hon) Carleton University in Ottawa Canada 1975; M.B.A. Dalhousie University in Halifax 1985

#### **POSITIONS:**

##### **Canadian Broadcasting Corporation**

Journalist in a variety of roles including reporter, editor, producer, and manager with an emphasis on public policy, business, and energy 1974-96, including CBC's first Parliament Hill Reporter for Atlantic Canada (1977-1980).

## **Province of Nova Scotia**

Director in the Departments of Finance, Petroleum Directorate and Energy responsible for public affairs, communications, policy, strategy development and administration 1996-09. Acting Deputy Minister Department of Energy 2009-10. Executive Director of Renewable and Sustainable Energy 2010-2016.

## **Offshore Energy Research Association (OERA)**

Founding Director, member representative, and Secretary of OERA. OERA members are the Province's five research universities and the NS Department of Energy. It is responsible for funding research that removes barriers to investment in offshore energy projects (petroleum and renewable) 2006-2016.

## **Carbon Capture and Storage Research Consortium of Nova Scotia (CCSC)**

Director and member representative of CCSC. CCSC carried out research on the geological suitability of NS salt structures to be used for storage of captured CO<sub>2</sub>. 2013-14. The results were found to be inconclusive and the organization was wound up.

## **International Journal of Marine Energy**

Editorial Board member. The Journal focuses on wave and tidal topics including fundamental understanding, fluid mechanics, design, modelling and optimization of devices and arrays/farms, environmental assessment, design codes, regulations, policy, economics, monitoring, planning evaluation, legislation and legal aspects related to sustainable exploitation of the ocean wave and tidal resources.

## **KEY AREAS of EXPERTISE:**

Marine renewable energy legislation, policy, and economic development; not-for-profit boards as a director. Solid foundation in accounting, finance, and marketing; deep knowledge of federal and provincial government processes, officials, and political leaders.

# BLUMARA

## **Nick Fyffe, President Blumara**

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Nick is a professional engineer with several years' experience in the marine and energy industries. Originally from Scotland, he started his career in the shipyards of Glasgow where he led engineering work to design and support the construction of a number of naval vessels including the Daring class destroyers, landing craft and various auxiliary ships for the British Royal Navy. He also worked on the construction and commissioning of offshore patrol vessels for the Royal Brunian Navy and was the delegated design authority for outfit on the Queen Elizabeth Class Aircraft Carriers. An expert in structural design for offshore and naval structures, Nick also conducted structural design work on the Astute class submarine and NATO Submarine Rescue System. In 2010, Nick and his wife moved to Canada for a "change in scenery" where Nick commenced working on various engineering tasks to support the midlife refit of the Halifax Class frigates for the Royal Canadian Navy.

Since 2012, Nick has been heavily involved in the tidal energy industry. He joined Emera as Tidal Technical Lead in June of that year and was responsible for overseeing the design, testing and deployment of tidal turbines in the Bay of Fundy and for helping to develop a local supply chain for the tidal energy industry in Nova Scotia. More recently as Site Development Manager for Emera, Nick was project manager for activities including site selection, permitting and commercial negotiations in support of the development of up to 300MW of tidal energy in the Bay of Fundy under the Cape Sharp Tidal joint venture with OpenHydro. In addition, Nick was responsible for leading the grid interconnection process for Cape Sharp Tidal's project to install 4MW of tidal energy at FORCE, including execution of generation interconnection and power purchase agreements. Whilst at Emera, Nick led the company's collaborative tidal energy research projects, including development of an integrated system for environmental monitoring with partners in both the UK and Canada.

Most recently, Nick founded Blumara, a company based in Halifax and established to develop innovative, green solutions for the marine environment by providing a range of design, engineering, and project development services for the marine and renewable energy sectors.

Nick is registered Professional Engineer with Engineer NS and Chartered Engineer with the Institution of Mechanical Engineers in the UK. He also serves on the Sustainability Committee with Engineers NS, the IEC TC114 marine energy standards committee, is meetings chair for Canadian Atlantic Section for the Society of Naval Architects and Marine Engineers and would be very pleased to serve on the board of Marine Renewables Canada. He lives in Halifax with his wife and two wee kids and is surprisingly terrible at golf.



## **Paul MacInnes, Director BD/Sales/Marketing MilAero**

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A senior sales and marketing executive with over 40 years of experience in various sales and management roles with ATV, ASN, CTV, Chum television and radio sales and the Evanov Radio Group managing 5 to 10 million budgets. In addition to an extensive marketing and media sales background Paul served as Senior VP of sales and marketing for Canada and the US in the manufacturing sector with Springwall Chiropractic Inc managing a 46 million budget.

Paul's entry into the aerospace and defence sector in the early 90's came through a role as a board of director's member with the Nova Scotia International Air Show. Over the next 14 years Paul contributed to the organization success in a variety of roles with sponsorship, corporate partnership, international prime's liaison and government relations board representative as well as Executive Director in 2004.

Paul's insight into the funding mechanisms of both public and private sectors has permitted him to successfully negotiate and access funds from provincial and federal departments such as ACOA, OED, NSBI, Department of Veteran Affairs, Department of Public Works (PWGSC), Department of Tourism and HRM. In the sector, key accounts included Boeing, Lockheed Martin, L3, Fed Ex, General Dynamics, Irving Shipbuilding, Composites Atlantic, SAAB, Pratt & Whitney Canada and Dew Engineering to name a few. In 2015 Paul joined the MilAero management group at MilAero Electronics as Director of Business Development, Sales & Marketing. MilAero's core capabilities are supporting the supply chains in the Renewable Energy Sector through Paul's sales efforts.

Committed to community service Paul has served on many not for profit boards over the years including Kids Help Phone, Nova Scotia Mental Health Association, Final 8 Men's basketball Championships and Memorial Cup to name a few.

Whether it is within the public or private sector, Paul can be relied upon to complete the task and achieve positive results for all stakeholders in this sector. Paul attended Dalhousie University and Florida Atlantic University.



## **Sheila Paterson, P.Eng. CITP, Chief Operations Officer**

### **Institute for Ocean Research Enterprise (IORE)**

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Sheila is Chief Operations Officer with the Institute for Ocean Research Enterprise (IORE), a federally incorporated not-for-profit corporation that acts as a vehicle for creating sustainable economic activity from ocean research. In her role, Sheila builds relationships with industry, researchers, facilitating organizations and governments for the application and commercialization of world-class scientific research. Sheila spent eight years with the Province of Nova Scotia, most recently as a Business Development Executive at the Nova Scotia Department of Energy, working to enhance the capacity of the local energy sector

supply chain and advance the province's international links. She previously worked with International Relations at the province's Department of Intergovernmental Affairs, with International Commerce strategy at the Department of Economic Development, and with the Air Quality group at Nova Scotia Environment. Earlier in her career, Sheila held process engineering roles with a high tech electronics manufacturer, led a custom electronics product design group, and worked in the aerospace sector in continuous improvement engineering. She graduated from Dalhousie University with degrees in Chemical Engineering and in Science.

Sheila has been active in the marine renewable energy sector since 2008, working for Nova Scotia's ecoTrust program as it provided \$7m toward the establishment of FORCE. She contributed to the NS marine renewable energy strategy and led several initiatives to assess and enhance the competitiveness of the local supply chain, and to characterize marine infrastructure needs for projects in the Bay of Fundy. On a national level, she has spoken at international conferences about MRE in Canada, has participated on national work groups, and supported international trade development and research partnering. She has facilitated connections among industry, academia, communities and all levels of government. With the national mandate of IORE, she continues these efforts with focus on the commercialization of ocean technologies to meet the demands of MRE and complementary ocean industries, and to implement programs at COVE, the newly established Centre for Ocean Ventures and Entrepreneurship.



## **Jeremy Poste, Canada Country Manager OpenHydro Technology Canada Ltd.**

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In 2014, Jeremy Poste joined OpenHydro – a DCNS company – global leader in tidal technology delivering silent, invisible, renewable energy. He is responsible for all operations, projects, teams and business development for OpenHydro in Canada. Jeremy has significant experience in both project management and industrial production in the energy sector, developed through his time working for DCNS in France and abroad, as well as other companies in the DCNS Group or AREVA Group. He is a Mechanical & Thermo Hydraulics Engineer specialized in the energy sector, especially nuclear energy.

For 20 years, Jeremy has lived in coastal regions, developing both his professional and personal life around what the oceans has to offer. He strongly believes oceans have a major role to play in our clean energy future and that ocean energy can be responsibly harnessed.

As President of Cape Sharp Tidal Venture, a joint venture between OpenHydro and Emera that has significantly invested in the regional and international supply chain, Jeremy has led his team to develop a clean, renewable energy source in Nova Scotia, while creating hundreds of jobs and investing millions in the local economy.

Cape Sharp Tidal Venture aims to install and operate a 4MW demonstration array at the Fundy Ocean Research Centre for Energy (FORCE) site in the Minas Passage to power 1,000 Nova Scotia homes with clean renewable energy. The project will also advance global scientific knowledge by implementing an environmental monitoring program to study sound, and fish and mammal interaction with the turbines.

Jeremy is a Director on both the Board of FORCE and the Board of Cape Sharp Tidal Development.



## **Terry Tarle, President & CEO**

### **AXYS Technologies Inc.**

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Terry was appointed CEO of AXYS Technologies in February 2014. AXYS Technologies (AXYS) is an expert in the Design, Manufacture and Deployment of remote environmental monitoring systems worldwide. For the past 40 years, AXYS has applied its extensive knowledge and experience to marine, freshwater, and offshore wind resource assessment systems that measure aquatic, oceanic and atmospheric parameters. Terry joined AXYS from his post as Chief Operating Officer at Aeroinfo Systems – a Boeing Company based in Richmond BC, where he was accountable for developing and managing new Boeing maintenance technology products marketed worldwide.



Prior to Boeing, Terry held executive positions in several high tech companies including national director of Telus Geometrics and senior vice president with Sierra Systems in charge of its' commercial business practice in Canada and the US.

Terry graduated with a Bachelor of Science degree in Engineering from the University of Calgary in 1981, and started his business career in British Columbia in 1985, when he founded a Victoria based high tech company. As President and founder, Terry led this company for 14 years, from start up to a successful and profitable small business with over 30 employees. Terry sold this business to another BC based company in 1999.

With Terry at the helm, AXYS has successfully positioned itself as the world-leading provider of buoy-based offshore wind resource assessment technology to the top offshore wind energy developers throughout Europe, Asia, and North America. AXYS has been committed to helping reduce the cost of offshore wind development through our floating LiDAR technology and has had a considerable impact on this industry.

Renewable Ocean Energy is Terry's passion and he plans to replicate AXYS' success in offshore wind to become the leading provider of wave and tidal power assessment technology worldwide. Through continued innovation and an in depth understanding of the emerging Renewable Ocean Energy industry, AXYS will help establish Canada as a leader in the fast growing Ocean Energy market.

Terry is committed to the Canadian marine energy renewables industry and hopes to be part of the highly functioning team at Marine Renewables Canada.