



25TH CONFERENCE AND ANNUAL GENERAL MEETING

**March 7th—8th, 2018
Best Western Dartmouth
15 Spectacle Lake Drive
Dartmouth, Nova Scotia**

Welcome from the President

Hello,

I would like to thank everyone for their continued support, without our members and collaborators and friends, we would not be the organization we are today! With a great team in the office who continue to bring excellence to the table, we continue to move forward with new ventures and continuing core essential projects.

We have faced many challenges through the years but with the cooperation of the membership and core staff, we have emerged stronger than before. In closing, I would like to personally congratulate each and every member, our staff, and our collaborators for making the FSRS the inspiration and symbol that it is to be today. Stay safe and all the best, to all.

Respectfully submitted,

Ken Snow

FSRS Board Members

Ken Snow	Hubert Boutilier
Fraser Clark	Bill Bond
Peter Hurley	Courtenay Parlee
Junior Risser	Josh Fricker
Michael Sinclair	Angelica Silva

FSRS Staff Members



Shannon Scott-Tibbets
Director of Operations

Elizabeth Baker
Science Projects Manager

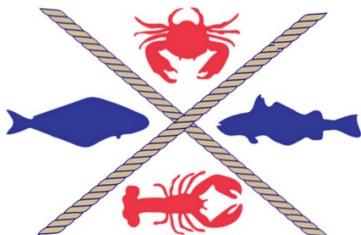
Teresa MacDonald
Senior Research Assistant

Jordan Gardiner
Research Assistant

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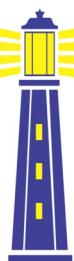
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Conference Agenda



Fishermen and Scientists Research Society 25th Annual Conference

Master of Ceremonies

Magali Grégoire

Founder of the Back to the Sea Society

March 7, 2018

8:15-9:00	Registration Open
9:00	Opening & Welcome from FSRS President Ken Snow
9:30	The past 25 years: Ms. Patricia King (PMD Services) Retrospective of my time at FSRS
10:00	Opening Keynote: Mr. Darren Porter (Fisherman) Third Eye Approach, the Path to Wisdom through the Integration of Traditional, Local and Academic Knowledges.
10:30	Nutrition Break (Poster Viewing)
10:45	Lauren Scopel (UNB) Topic: Using seabird diets to help estimate recruitment and abundance of Atlantic herring (<i>Clupea harengus</i>)
11:15	Dr. Jae Choi (DFO) Topic: Snow Crabs
11:45	Robert Freake (Transport Canada), Amanda Dedrick (Fisheries Safety Association of Nova Scotia) Key Points of the <i>Fishing Vessel Safety Regulations</i> as they pertain to the local FV fleet.
12:15	Dr. Adam Cook (DFO) FSRS Recruitment Data
12:30-13:30	Lunch (Provided)
13:30	FSRS Science Update: Elizabeth Baker

13:45	Panel Discussion: Mr. Sam Elsworth (FSRS), Mr. Carl MacDonald (DFO), Dr. Anthony Charles (Saint Mary's University), Mr. Randy Boutilier (Fisherman), Ms. Catherine Boyd (Clearwater Seafood),
14:45	Break Out Groups
15:30	Student Poster Session
16:30	Closing Remarks
18:00-20:00	Evening Reception/Auction

March 8, 2018

9:00-10:30	FSRS Annual General Meeting
10:30	Recap of first day
10:45	Nutrition Break
11:00	Keynote: Dr. Nancy Shackell and Dr. Blair Greenan (DFO) Our Coasts, Our Fish, and Our Communities in a Changing Climate: There's Good News and Bad News...
11:30	Keynote: Dr. Moira Brown (Canadian Whale Institute) What the Heck is Going on with the North Atlantic Right Whales?!
12:00	Student Poster Awards & Closing Remarks

A special thanks to Anne & Staff at Best Western Plus Dartmouth!

Conference Venue



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Speaker Bios

Each presentation is 20 minutes with 10 additional minutes for discussion. Timing will be closely monitored.

Retrospective of my time with FSRS

Ms. Patty King

BBA, Cert in Adult Ed.—PMD Services

9:30am-10:00am



Patty King, President of PMD Services – Project Management and Development Inc., is a highly motivated professional with more than 25 years of senior level management experience. She has an outstanding record of building productive partnerships between diverse groups, often with competing priorities. Patty played a key role in the development and implementation of the Fishermen and Scientists Research Society (FSRS), an internationally renowned model for effective collaboration between fishermen and scientists. For more than two decades she led the FSRS as its General Manager.

Patty has a Bachelor of Business Administration from Mount St. Vincent University and a Certificate in Adult Education from Henson College. In 1998 she founded PMD Services, specializing in the development of strategic partnerships and stakeholder engagement. She has provided strategic organizational planning and management, collaborative research project development and management, event management, development and delivery of training programs, funding development and financial management services to numerous organizations.



Third eye approach, the path to wisdom through the integration of Traditional, Local and Academic knowledges

Mr. Darren Porter

Director, MINAS

10:00am-10:30am

Darren Porter, the founder and director of MINAS. Darren is an owner and operator of many commercial licenses; he has been fishing for his entire life. He started fishing clams, oysters, wild mussels, smelts, Gaspereau, eels, shad, herring, tomcod, flounder, mackerel, marine plant, squid, sculpin and lobster. He has been very active in shellfish aquaculture, owning multiple shellfish leases in different maritime provinces, such as oysters, mussels and scallops. Darren has done consulting work for the aquaculture industry and provincial government. He sits on the board of directors for four fishing associations, he is a spokesman for the fishing industry and an advocate for small scale fisheries, coastal communities and the environment. Darren also works extensively with universities, and First Nations. His operations are open to the public, industry, academia, NGOs and anybody that wishes to interact and immerse themselves in the local and traditional knowledge, as well he provides a rare platform for people to see firsthand the diversity of marine life within the waters. His life's goal is to integrate the three knowledges; traditional, local and academic to create true wisdom (third eyed science) to manage the ocean for future generations.

We are experts and can help with:

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- Seafood market outlooks
- Issues facing harvesters



Fisheries & Business Consultants



Using seabird diets to help estimate recruitment and abundance of Atlantic herring (*Clupea harengus*)

Lauren Scopel

University of New Brunswick



10:45am-11:15am

Lauren is a PhD candidate in Dr. Tony Diamond's lab at the University of New Brunswick (<http://www.unb.ca/research/alar/>)

. They conduct research on the diet and reproductive success of seabirds breeding on Machias Seal Island, NB, in collaboration with the Canadian Wildlife Service, the U.S. Fish and Wildlife Service, and the National Audubon Society's Seabird Restoration Program in Maine. Her PhD addresses population dynamics of the Arctic Tern (*Sterna paradisaea*) in the Gulf of Maine-Bay of Fundy ecosystem, especially following the collapse of the tern colony at Machias Seal Island, which was formerly the largest in North America. With their collaborators in Maine, they recently published a paper on the use of seabird diet data to predict the abundance and recruitment of Atlantic herring (*Clupea harengus*) in the 4WX and 5YZ herring stock complex. Her and her collaborators are interested in the productivity of herring in this region, as they are one of the highest quality fish that seabirds and other



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- Advocating for changes to fisheries policy, supporting those which encourage independent, owner-operator fisheries
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To learn more about our marine conservation and fisheries work, visit ecologyaction.ca/marine



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marine predators can consume; recent analysis of seabird diets at Machias Seal Island show a decline in herring over the past decade, suggesting an ecosystem-based approach to herring management would be beneficial



Topic: Snow Crab

Dr. Jae Choi

Fisheries and Oceans Canada, Bedford Institute of Oceanography

11:15am-11:45am

Dr. Jae Choi has been providing snow crab assessment advice for the Maritime Region since 2004. His focus has been to quantitatively bring together environmental variability into stock assessments in a spatiotemporal framework that leverages an organism's habitat preferences, model-based geostatistics and Bayesian methods. His more general research interests encompass the study of perturbed ecosystems, landscape ecology, classical and agent-based simulation modelling, network theory and theoretical ecology. He was trained in population dynamics and ecosystem/landscape ecology at the Universite de Montreal (PhD) and University of Toronto (MSc).

Key Points of the *Fishing Vessel Safety Regulations* as they pertain to the local FV fleet.

Mr. Robert Freake and Ms. Amanda Dedrick

Transport Canada, Fisheries Safety Association of Nova Scotia



11:45am-12:15pm

Amanda is a graduate of the Nova Scotia Community College and is continuing her education currently at the University of New Brunswick. She is currently the Executive Director for the Fisheries Safety Association of Nova Scotia which allows her to continue to do what she loves, to help people. Amanda has a vast amount of knowledge when it comes to the Fishing Industry and knows how dangerous yet rewarding the job can be. Robert is a naval architect with more than 10 years experience working in the private industry and 15 years as a Marine Safety Inspector. They will be presenting key point of the *Fishing Vessel Safety Regulations* as they pertain to the local FV fleet. They hope to provide answers to as many questions as time permits and provide attendees with a direct contact to TCMSS for future inquiries.

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FSRS Monitoring Data

Dr. Adam Cook

Fisheries and Oceans Canada, Bedford Institute of Oceanography

12:15pm-12:30pm

Adam Cook is a research scientist with Fisheries and Oceans Canada. He currently is the science lead in the lobster group within Population Ecology division a role he has held for the last two years. He has had extensive experience in ecosystem based research and population dynamics in both freshwater and marine environments. Adam holds a Doctorate degree from Dalhousie University

Panel Discussion

1:45pm—2:45pm

Dr. Tony Charles
Saint Mary's University

Dr. Anthony (Tony) Charles is the Senior Research Fellow in Environment and Sustainability, and a professor in the School of the Environment and the School of Business, at Saint Mary's University in Halifax. Tony specializes in interdisciplinary analysis of fisheries, coastal and marine issues, especially

management, socio-economics and sustainability. He focuses particularly on coastal fisheries, integrated ocean and coastal management, the ecosystem approach, marine protected areas, climate change, and community-based conservation. Tony was one of the original members of the Fisheries Resource Conservation Council (FRCC), a body created by DFO 25 years ago to figure out how Atlantic fisheries should be managed in the aftermath of the cod collapse. Currently he leads the Community Conservation Research Network, an international project to understand and support local communities practicing conservation to sustain local economies (www.CommunityConservation.net).

Catherine Boyd

Clearwater Seafoods

Catherine Boyd joined Clearwater Seafoods in 2007 to support the company's goals on sustainability, regulatory compliance, international trade, and communications. As Director, Sustainability and Public Affairs Catherine has engaged with stakeholders in the seafood sector nationally and internationally at the government, industry, academic, and NGO level, always with the intention to bring greater value to the industry. Catherine holds a Bachelor degree from Memorial University and a Masters in Environmental Studies from Dalhousie University.

Randy Boutilier

Fishermen, Eastern Shore NS

Randy is a fourth generation fishermen with more than 40 years experience fishing. He is from the Eastern shore of Nova Scotia and has fished many different species, his main catch is lobster.

Sam Elsworth

Co-founder of FSRS

In 1992 a survey was completed showing the value and need of a partnership between fishermen and scientists within the fishing industry. This led Sam Elsworth and Randy Baker to create CanSea Inc. —a group focused on creating a partnership between fishermen and scientists to help communication and the sharing of the unique experiences and knowledge of the two groups. CanSea Inc. soon evolved into the non-profit organization, that is today know as Fishermen and Scientist Research Society.



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Carl MacDonald
DFO, Resource Management

Carl MacDonald worked as a Biologist for FSRS from 1999-2009. He now works for Fisheries and Oceans Canada in the Resource Management Division as a Senior Advisor.

Break Out Groups

2:45pm—3:30 pm

Topics to be covered:

- Climate Change and Fishing
- Research
- Fishing Practices
- Industry Adaptation Strategies
- Past Challenges in Fishing
- Future Challenges in Fishing



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Day Two Speakers

Each presentation is 20 minutes with 10 additional minutes for discussion. Timing will be closely monitored.



Our coasts, our fish, and our communities in a changing climate: there's good news and bad news...

Dr. Nancy Schakell and Dr. Blair Greenan
Fisheries and Oceans Canada

11:00 am—11:30 am



Nancy Shackell currently works at the Fisheries and Oceans Canada, Bedford Institute of Oceanography. Nancy does research in marine fish ecology, climate change, biodiversity, and conservation. Blair Greenan is

a research scientist and Head of the Ocean Stressors and Arctic Science Section at the Bedford Institute of Oceanography. Dr. Greenan is the co-editor of the DFO report entitled “Climate Change Impacts, Vulnerability and Opportunity (IVO) Analysis of the Marine Atlantic Basin”. He had a leading role in a climate change risk assessment for DFO that was completed in 2013. He is leading the development of two sea level rise adaptation tools under the DFO Aquatic Climate Change Adaptation Services Program (ACCASP).



What the Heck is Going on with the North Atlantic Right Whale?!

Dr. Moira Brown

Canadian Whale Institute

11:30 am – 12:00 pm

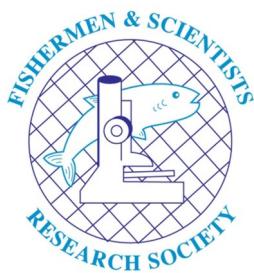
Moira was born in Montreal QC and lives on Campobello Island NB. She is right whale scientist for the Canadian Whale Institute (Wilson's Beach, NB) and the New England Aquarium (Boston, MA). Her research interests since 1985 include population biology and demographic studies of North Atlantic right whales in Canadian waters. Her conservation is focused on the threat of vessel strikes and fishing gear entanglement faced by right whales in Atlantic Canadian waters and she works with industry to identify and implement conservation measures to reduce the effect of human activities on their numbers. She was instrumental in working with the shipping industry, scientists at Dalhousie University (Halifax, NS), Canadian government regulators and the International Maritime Organization to gain two conservation measures to substantially reduce the risk of vessel strikes of right whales in Atlantic Canadian waters. She received a Bachelor of Education in Physical Education and Bachelor of Science in Renewable Resources from McGill University and a Ph.D. in Marine Biology from the University of Guelph, and is a member of the Campobello whale Rescue Team.

Display Booths

- Maritime Aboriginal Peoples Council
- Lobster Council of Canada
- Campobello Whale Rescue Team
- TriNav Fisheries Consultants Inc. (TFC)
- DSS Marine
- Ecology Action Centre
- COINAtlantic—Coastal and Ocean Information Network Atlantic
- WWF-Canada
- Perennia Food and Agriculture Inc.
- Marine Affairs Program—Dalhousie University
- VEMCO



Missing from Photo: Elizabeth Baker, Kaitlin Burek, Tess O'Reilly



**Thank you for attending
our Conference!**

For more information about the FSRS, contact us at:

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Notes