

# MAP MATTERS

The Newsletter of the Marine Affairs Program, Dalhousie University



## CONGRATULATIONS MMM 2021-2022!



Congratulations to the **MMM Class of 2021-2022** from the MAP Community! Learn about their research on page 2 of this issue. Best wishes to the recipients of the MAP Awards and Prizes (pages 3-5).

## Welcome to MMM 2022-2023!



MAP welcomed the MMM class of 2022-2023 in September 2022. The class began their MMM journey with the Halifax Harbour Use exercise in the Contemporary Issues course. Check out the [student profiles](#) of the newest members of the MAP family.

## MMM Class of 2021 Graduate Projects

Claire Armstrong-Buisseret	<a href="#"><u>Transformative change in shellfish food systems: Overcoming barriers to Indigenous Food Sovereignty in coastal BC</u></a>
Elizabeth Cichowski	<a href="#"><u>A Program and Policy Review of Canada's Federal Ghost Gear Fund in the Maritimes Region</u></a>
Cailey Dyer	<a href="#"><u>Fishing Fairness: The Case of Class B Lobster Fishing License</u></a>
Marine Courtois	<a href="#"><u>A systematic review of the socioeconomic outcomes of the European Union's trade-based measure for seafood sustainability</u></a>
Raven Elwell	<a href="#"><u>The Integration of Climate Change Modeling, Monitoring and Management for Cold-Water Coral and Sponges in Eastern Canada</u></a>
Laurel Genge	<a href="#"><u>Coastal Adaptation and Vulnerability Assessment (CAVA) on the Tourism Industry for Sea-Level Rise in Lunenburg, Nova Scotia</u></a>
Kyle Gordon	<a href="#"><u>Identifying potential spatial use conflicts between the commercial fishing industry and offshore wind development in the Scotian Shelf-Bay of Fundy planning area</u></a>
Carly Green	<a href="#"><u>Limited Options in Canada's Regulatory Tools for Addressing Underwater Noise</u></a>
Hannah Kosichek	<a href="#"><u>Evaluating the potential for seaweed aquaculture in Nova Scotia</u></a>
Samanta Martinez	<a href="#"><u>Determining effectiveness of Ecologically Significant Areas (ESAs) for protecting Striped Bass (<i>Morone saxatilis</i>) spawning habitat in the Stewiacke River, NS</u></a>
Gwen Marty	<a href="#"><u>Revealing the Seafloor: Exploring Local Knowledge and Interpretations of Benthic Spaces along the Eastern Shore of Nova Scotia, Canada</u></a>
Michaela Mayer	<a href="#"><u>Monitoring of Sea Otters (<i>Enhydra lutris</i>) to Inform Future Population Management Actions on the Coast of Vancouver Island</u></a>
Armand McFarland	<a href="#"><u>Developing an Equitable Framework to Support Indigenous Co-Governance of St. Anns Bank Marine Protected Area</u></a>
Ian McLean	<a href="#"><u>Forage fish in decline: Understanding the usage and management of bait fisheries in the Maritimes Region</u></a>
Maryam Nakhostin	<a href="#"><u>Assessing Appropriate Conservation Strategies for Carpet Sharks</u></a>
Corie Rooyakkers	Lessons in use of Marine Protected Areas for the management of two fisheries, manta ray and conch: Comparative analysis of Indonesia and Belize experiences in conservation of economically important species
Dylan Seidler	<a href="#"><u>Marine-Based Research in a Changing Climate: Lessons and Methods for Community Engagement from Nunatsiavut Canada</u></a>
Abdirahim Ibrahim Sheik Heile	Estimating The Impacts and Benefits of Foreign Fleets Fishing In Somali Water
Debra Sinarta	<a href="#"><u>What's in our toolbox: Exploring and unlocking Canada's blue carbon potential</u></a>
Krish Thapar	<a href="#"><u>Evaluating the current aquatic invasive species (AIS) treatment methods and exploring different restoration tools that could aid in ecosystem recovery in freshwater ecosystems of Nova Scotia</u></a>
Victoria Winslow	<a href="#"><u>Objectives of marine conservation measures and their use in strategic marine spatial planning in Canada</u></a>

The Marine Affairs Program is proud to announce the recipients of the Gold Award, Captain Earle Wagner Marine Management Award and the MAP Millennium Prizes

### Gold Award

The [Gold Award](#) is named in honour of **Dr. Edgar Gold**, CM, QC, one of the founders of the Dalhousie Ocean Studies program. The annual financial award is presented to the most deserving MMM graduate. The recipient is identified within the peer cohort of MMM graduates. Equal emphasis is placed on academic performance and the ability to reflect the ideal graduate as the “honest broker” – i.e. one who is mindful of the complementary and competing multi-and inter-disciplinary interests which influence the design, implementation, and outcome of the management process in marine affairs. The Gold Award recipient is the student who best exemplifies MAP’s objectives of providing its graduates with the knowledge skills and attitudes necessary to be a leader in the field of marine affairs.



**Victoria Winslow, Gold Award 2021-2022**

*“I would say that one of the most significant lessons I learned in this program is the importance of considering the human uses of the marine space when implementing marine conservation objectives to ensure their long term sustainability and success. This interdisciplinary way of thinking drew me to marine spatial planning and my graduate research project, and it is something that I will continue to use as I move into my career in marine conservation.”*

### Captain Earle Wagner Marine Management Award

The [Captain Earle Wagner Marine Management Award](#) the result of a generous endowment from Captain Earle Wagner. It was developed to support the ideals of the Marine Affairs Program, and recognize Master of Marine Management students conducting visionary research on the impacts of climate change. Students are challenged to think originally about the impact of global warming on marine and human life, and make fact-based arguments related to their research.

#### **Maryam Nakhostin, Captain Earle Wagner Marine Management Award 2021-2022**

*Maryam completed her Honours BSc at University of Toronto, majoring in Neuroscience and Biology, and followed her interest in ecology of sharks by focusing her thesis on evolution of different reproductive methods in Chondrichthyes. Given the drastic and continuous consequences of anthropogenic climate change for the marine environment, Maryam believes it is more important than ever to research the effects of human activities on sharks and rays in order to determine how best to conserve their rapidly declining populations and habitats. As a result, she further pursued her passion for shark conservation by carrying out her graduate thesis on the topic of assessing appropriate conservation strategies for carpet sharks.*



### Marine Affairs Millennium Prizes

The **Marine Affairs Millennium Prizes** are awarded for outstanding student performances in the core courses of the Master of Marine Management degree: **Marine Policy for MARA 5010** (Contemporary Issues, Part 1), **Marine Science and Technology for MARA 5003** (Marine Science and Technology) and **Marine Management for MARA 5009** (Coastal Management). In addition, a prize is also awarded to the student who best demonstrates a capacity to expand their knowledge base from **disciplinary to interdisciplinary** - thereby utilizing a broad array of knowledge over the course of the degree program (**Interdisciplinary of the Year**).

#### Marine Affairs Millennium Prize Marine Policy

##### Debra Sinarta

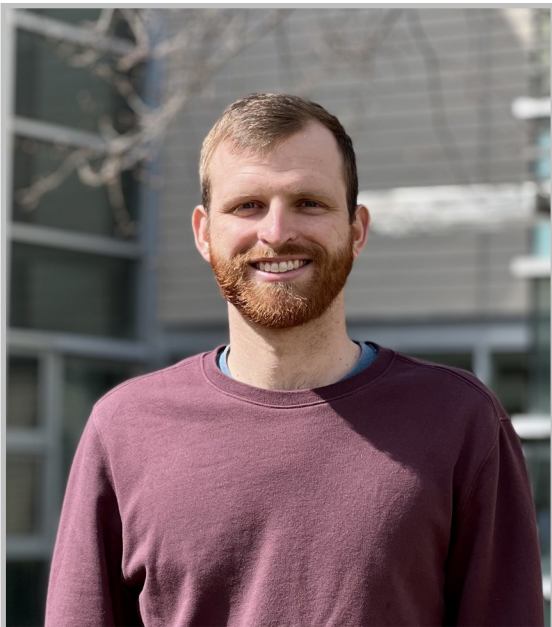
*“After completing my undergraduate work at the University of British Columbia in Conservation Biology, I chose to continue my studies with the MMM program. The Contemporary Issues in Ocean Management and Development Course allowed me to dive into complex topics of the knowledge-based decision making, maritime law, and Indigenous worldview and governance in marine management. Marine management decisions are dependent on a combination of knowledge, place, and practice. These decisions are influenced by the availability of knowledge and evidence; stakeholder relationships and power dynamics; and jurisdictional and political considerations. Through the program and this course, I was able to explore the complexities of decision-making and tools that can be used address them in marine management. I am looking forward to applying learnt concepts of Two-eyed Seeing, proactive engagement, integrated governance frameworks to my future work in marine conservation”.*



#### Marine Affairs Millennium Prize Marine Science and Technology

##### Kyle Gordon

*I am very honoured to have received the Marine Science and Technology Millennium Prize. The marine science and technology skills that I developed while completing my MMM degree have been integral to my graduate project which looked at spatial conflict between commercial fishing and offshore wind development in Nova Scotia and my position working with the Marine Planning and Conservation Program at Fisheries and Oceans Canada.*





**Marine Affairs Millennium Prize Marine Management  
Marine Courtois**

*“After completing my undergraduate studies in France and my marine biology master’s degree internationally, I choose to study in the MMM program at Dalhousie University to diversify my competencies in the marine management sector. The Coastal Zone Management course provided me with a better understanding of the process and several environmental, social, and implications linked to it. It allowed me to apply the knowledge acquired during this program to specific case studies to perfect an interdisciplinary approach to marine management. I reuses these skills every day in my current job as a blue economy project manager with ECO Canada.”*

**Marine Affairs Millennium Interdisciplinarian of the  
Year Prize**

**Raven Elwell**

*“I am very thankful to have received this award, interdisciplinary work is so important because it allows you to take an approach that applies methods, viewpoints, language and more from numerous disciplines to examine a main topic, issue, or problem and come to a sort of collaborative conclusion. “*





### Sustainable Ocean 2023—Turning Tides

The Master of Marine Management (MMM) candidates of Dalhousie University’s **Marine Affairs Program**, will be hosting the 12<sup>th</sup> annual Sustainable Ocean Conference on September 23<sup>rd</sup> and 24<sup>th</sup>, 2023 at the Halifax Convention Centre.

The **Sustainable Ocean Conference** (SOC) is a free event that brings together a wide audience—from academics to practitioners to the public. The goal is to create opportunities for collaboration and education that address the range of issues affecting our ocean. The conference is supported by the **Sobey Fund for Ocean**, a unique partnership between the Marine Affairs Program, Dalhousie University, and the World Wildlife fund to inspire inventive multi-disciplinary approaches for creating healthy oceans and sustainable economies.

The theme of this year’s conference is **Turning Tides**. We look to embrace a new chapter of marine management that promotes the interdisciplinary, intersectional, and intergenerational nature of the ocean science field. Together we will explore what it means to research, work, and co-exist in this ever-evolving space, through insightful keynote presentations, an innovative panel discussion, and a showcase of exceptional research. We look forward to turning the page, and shifting the way we view a sustainable ocean together!

We are delighted to announce that year’s keynote address will be delivered by **Dr. Cinda Scott**. Dr. Scott is a marine biologist, educator, public speaker, ocean equity advocate and “fabunerd”. We look forward to her sharing her vast range of knowledge—from biology to education—as well as her journey from the realm of natural science to that of the public sector. Dr. Scott’s talk will cover a wide range of topics, from cultural competence in conservation, to the intersection of social and natural sciences. It is truly an honour to host her at SOC 2023.

This year, SOC will include a fascinating panel discussion on “Sustainability in Action”. This will consist of knowledgeable speakers from various ocean sectors sharing their experiences and approach to ‘on the ground’ decision-making in an era where sustainable and equitable development have become fundamental topics of global ocean dialogues in recent years. We are currently workshopping the specifics of the panel with our panellists and cannot wait to share it with our attendees.

Stay up to date on conference details and activities at **Sustainable Ocean 2023**.

**Registration** is now available for this free and innovative conference. We look forward to engaging with you in September!

## Sobey Fund for Oceans—Scholarships 2022-2023

The goal of the [Sobey Fund for Oceans](#) is to inspire innovative multi-disciplinary approaches for creating healthy oceans and sustainable economies. The Sobey Fund for Oceans provides resources to support scholarships, work placements, and student-led events and conferences to help tomorrow's leaders see "beneath the surface" of our oceans' problems to find lasting solutions. Four scholarships were awarded to members of the 2022-2023 MMM class.



### Grace Akinrinola

Grace completed her M.Sc. in Marine Pollution and Management and B.Sc. (Hons.) in Marine Biology from the University of Lagos, Nigeria. She is passionate about the well-being of the environment, particularly the marine environment. She is a lover of [new places](#) with over 7 years of experience in environmental impact assessment, implementation of ecosystem-based approach programs, and strategic marine-related research, in addition to her 6 months undergraduate internship with Nigerian Maritime Administration and Safety Agency (NIMASA). Throughout her applied marine biology work, she continued to witness and develop an interest in the human dimensions of resource use, particularly aspects related to conflict and justice.

She is excited to begin the Master of Marine Management (MMM) program to expand her knowledge of marine management through its interdisciplinary approach. Specifically, Grace's research is on a Two-Eyed Seeing Evaluation of the DFO (Maritimes Region) Ecosystem-Based Management Framework Applied to Treaty Fisheries Implementation.

*"I am excited to start the Master of Marine Management (MMM) program at Dalhousie University and grateful for the support of the Sobey Fund for Oceans Scholarship. I have an educational background in Marine Biology, Marine Pollution and Management with over 7 years of experience in environmental impact assessment, implementation of ecosystem-based approach programs, and strategic marine-related research. Throughout my applied marine biology work, I continued to witness and develop an interest in the human dimensions of resource use, particularly aspects related to conflict and justice. I look forward to bringing my knowledge and experiences to the MMM program and developing an interdisciplinary approach to address contemporary issues in ocean and coastal management. Specifically, my research is to apply the DFO (Maritimes Region) Ecosystem-Based Management (EBM) Framework to the case of Treaty fisheries implementation (particularly lobster) to assess and understand gaps in what the Framework offers and what the Sipekne'katik First Nation community may need. Further, the newly developed Sipekne'katik Governance Initiative (SGI) will provide the Mi'kmaw*

### Brianna Crosby

Brianna was born and raised in Nova Scotia where she developed a deep love for the ocean, spending much of her childhood roaming around beaches looking for shells and sea life. Recently, she graduated from Mount Allison University with a BSc (Honours) in Biology. In her third year, she worked on a project that investigated how biodiversity and algal communities changed with elevation on a rocky intertidal shore and it was here where she discovered her passion for coastal marine ecology.

Brianna is particularly interested in the conservation of native species and the management of invasive species along the coasts of Atlantic Canada. She is looking forward to learning how to effectively develop management policies that integrate citizen science as she believes that community involvement can be instrumental in conservation and management efforts. She is very excited to be joining and learning from the Marine Management community this fall.

*I am extremely grateful to have been chosen as a recipient for the Sobey Fund for Oceans Scholarship as I begin my Master of Marine Management at Dalhousie University. A lifelong love of the ocean and an undergraduate degree in biology has fostered my interest in coastal marine ecology. I am particularly interested in the conservation of native species and the management of invasive species along the coasts of Atlantic Canada. It is my hope that through the Marine Management program, I will learn how to effectively develop management policies that integrate citizen science as I believe that community involvement can be instrumental in conservation and management efforts.*





### Abigail Kim

Abigail is a graduate of the University of Guelph's Environmental Resource Management program, holding an honours BSc degree. Her love of the ocean comes from her experiences exploring the rugged coasts and rich marine culture of Kinvara, Ireland, of which inspired her undergraduate thesis investigating the human dimensions of large-scale marine protected area management. Whilst working in Indigenous consultation at the Ontario Ministry of Mines, Abigail discovered a passion for working with communities that lack the capacity to engage in the natural resource management process.

Ultimately, to build community capacity and promote socio-ecological sustainability, Abigail's research involves isolating critical characteristics of community-based conservation projects that lead to optimal outcomes for both ocean and community. As a Sobey Fund for Oceans Scholarship recipient, Abigail looks forward to utilising the MMM program's interdisciplinary curriculum to translate her desire to help communities reach their full potential into work that keeps our oceans healthy and our communities prosperous.

*"I am so very humbled to be receiving the Sobey Fund for Oceans Scholarship as I continue my studies with the Marine Management program at Dalhousie. Blending my love of the ocean and passion for supporting those communities that rely on its resources; my research is rooted in the socio-ecological dimensions of marine protected areas and the ability to achieve mutually beneficial outcomes for both ocean and community. I am passionate about creating marine management strategies that are ecologically sustainable and encourage resiliency and capacity building in coastal communities. My hope is that this work will drive socio-economic and ecological change across a diverse range of stakeholders and rightsholders, providing a common thread of conservation and capacity building through local, industry, and government partners, keeping our oceans healthy and our communities prosperous. I am extremely grateful to the Donald R. Sobey Foundation for their trust and support as I aim to reach these goals."*

### Adam Williamson

Adam holds an undergraduate degree in environmental science from Carleton University in Ottawa, Ontario. Far from the ocean, he focused on freshwater ecology and conservation, earning him a number of valuable professional and academic experiences. During his undergrad, he spent a summer working for Carleton's Fish Ecology and Conservation Physiology Laboratory doing fieldwork for a variety of studies and projects. For his undergraduate thesis, Adam analyzed the freshwater phytoplankton biodiversity of the Trent-Severn waterway in eastern Ontario. He classified thousands of microscopic particle images, categorizing them into relevant genera and correlating their abundance with several physical and chemical water variables. Adam remains fascinated by aquatic research and problem solving and is ready to gain a wider breadth of experience by focusing on the marine environment. He hopes to explore marine ecosystem restoration in Atlantic Canada with a focus on interdisciplinary approaches to project planning, execution and post-restoration management.

*"I am hugely looking forward to pursuing a Masters of Marine Management at Dalhousie, with no small thanks to the Sobey Fund for Oceans Scholarship. The interdisciplinary nature of this program is what made it attractive for me; my academic and professional background is mainly in freshwater ecological research, so I am excited to expand my knowledge and experiences through to marine research and management. I have always been interested in ecological restoration, as such I hope to explore the challenges and interdisciplinary approaches to marine restoration in Atlantic Canada and how solutions for better restoration outcomes can combine positive synergies among biodiversity gains, climate change adaptation and sustainable economic opportunity."*





### Dalhousie welcomes Maxine Westhead as new Director of Marine Affairs

With both her research expertise, and her management level experience, Dalhousie University is delighted to announce her appointment as new Director. Maxine joins Dalhousie through Interchange Canada, which facilitates work assignments of individuals in public administration to exchange of knowledge and skills, and foster relationships.

“As an international leader in oceans research and partnerships, we are pleased to support this exciting initiative within the Faculty of Science and deepens our longstanding partnership with Fisheries and Oceans Canada,” says Chuck Macdonald, Dean of the Faculty of Science. “We are thrilled to have her serve as a bridge between the academic and professional worlds in the realm of marine management.”

Maxine Westhead has always been conservation-minded and always wanted to help make change. After snorkeling in Hawaii in the 1980s, she fell in love with the marine environment and on the spot decided to become a marine biologist, deviating from her childhood dream of becoming a veterinarian.

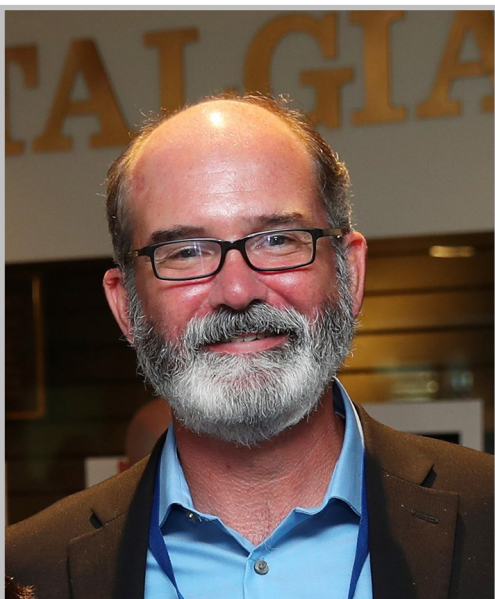
After completing her B.Sc in Marine Biology at the University of Guelph, and MSc at Acadia University, she landed an internship with the Department of Fisheries and Oceans (DFO), which was just starting up after the passing of Canada’s Oceans Act, at the Bedford Institute of Oceanography.

“Talk about being at the right place at the right time!”, says Westhead. Over the years, Maxine has taken on various roles in marine conservation, marine protected areas, and marine spatial planning, ending up as a Section Head for the MPA Program for 10 years followed by five years as Section Head of the MSP Program. Her Master’s degree from Acadia University focused on mudflat ecology of the Minas Basin.

Maxine Westhead joined the Marine Affairs Program in the Faculty of Science at Dalhousie in 2014 as a part-time lecturer to deliver the Marine Protected Areas course. She is an Adjunct Professor and has taught the course for the past 10 years.

“I’ve been proudly working with the Marine Affairs Program for a decade as both an instructor and an internship host. Increasing my involvement with the program to this degree as incoming Director is truly an honor, and I’m very excited for the year ahead.”

“As I age and get closer to the end of my career rather than the beginning, I feel the desire to give back, and there is no better way than supporting students who aspire to work in the field of marine management,” says Westhead. “With environmental and oceans issues locally and globally still being so pressing and urgent, I also believe that the more people we have working on solutions, the better.”



### Jerry Bannister—MAP Director 2019—2023

MAP would like to acknowledge and thank Jerry Bannister for his commitment and dedication to Marine Affairs as Director over the past 4 years. Jerry guided the MAP ship during the very turbulent time of the Covid-19 pandemic, assisting faculty and students to pivot to online learning in the academic realm. While students and faculty struggled with the switch to online learning, Jerry’s empathy and steadfastness were evident in the success of students obtaining internships, completing their graduate projects, graduating and finding marine management positions.

Jerry joined the MAP family in 2011 to serve on the Admissions and Graduate Project review committees.

Under Jerry’s leadership, MAP was held afloat while faculty members were on sabbatical, and on strike, (Part-time Academics, fall 2022). He led the team during the review of MAP and the MMM program, and negotiated the limited term appointment, currently held by Hannah Harrison.

Jerry will be spending the next year on a well deserved sabbatical. Best wishes from Marine Affairs.



Marine Affairs welcomes **Cali Goud** to the role of MAP Administrator. Cali Goud (Kay-Lee Good) is the new Program Administrator of Marine Affairs. Cali comes to MAP from the Office of Research Services, where she spent the last four years working in the Research Ethics unit. Although she is new to the MAP family, Cali has been on campus since 2009. Cali holds a Bachelor of Management from Dalhousie University and a diploma in Business Administration from NSCC. In addition to her business background and work experience, Cali brings years of volunteer management and event coordination experience to MAP. “I am extremely excited to be part of the MAP family! I grew up on the ocean and lived in small fishing villages my whole life. Conservation is a cause that is near and dear to my heart. I am constantly blown away by what our students accomplish and am proud to play even a small role in helping them down their path.”

### **Becky Field, retired MAP Administrator**

A retirement reception was held in late June to acknowledge the service and dedication of Becky Field in the role of Administrator of Marine Affairs for over 22 years.

The Marine Affairs family is made up of MMM students, alum, faculty, adjuncts, PhD candidates, post doctoral fellows, internship hosts, academic supervisors and friends of MAP, some of whom attended the reception. The event was hosted by Maxine Westhead, incoming MAP Director with remarks made by former MAP leaders Aldo Chircop, Lucia Fanning, and Captain Earle Wagner, who established the Captain Earle Wagner Marine Management Award in 2021.

During Becky’s tenure, MAP moved from the Faculty of Graduate Studies, to the Faculty of Management to the Faculty of Science, with 5 physical moves of MAP office locations. Becky was part of the MMM journey of 382 MMM students (there are now a total of 548 MMM alum!). She was managed by (and managed) 7 Directors, including Aldo Chircop, Bruce Hatcher, Gary Newkirk, Bob Fournier, Lucia Fanning, Claudio Aporta and Jerry Bannister.

Becky is happy to pass the reigns over to Cali. Retirement plans include gardening, playing pickleball, reading, and travel, within Nova Scotia and beyond.

*“I would like to express my gratitude to all the MAP family that I interacted with over the years. It was a pleasure to meet and work with so many dedicated to the important task of managing the marine space of our coasts and oceans.”*



Photo credit: C Goud

## Marine Affairs Professional in-Residence

Marine Affairs is excited to announce **Suzanne (Sue) Dobson**, Regional Manager for Aquaculture Management in the Maritimes Region of Fisheries and Oceans Canada as the next Professional in-Residence. The Professional in-Residence position, created in 2021, serves as an advisor to Marine Affairs students through a professional lens. It is a flexible role that can include career coaching through one-on-one meetings or seminars, connecting students with professionals in the field, developing professional skills, or helping them find internship placements.

Suzanne Dobson has always been involved with oceans and the environment, picking up her love of the water through sailing throughout the Americas with her family as she grew up. Sailing also gave Suzanne a love of travelling and other cultures, which drove her to complete her Bachelor's degree at Wilfrid Laurier University and her Master's degree at Dalhousie each in International Development Studies. For her Master's thesis, Suzanne combined her passions to look at sustainable development in the marine environment and coastal zone studies. She furthered her work by studying Oceans Policy and Governance with her PhD in Geography at Simon Fraser University and was hired by Fisheries and Oceans Canada (DFO), Pacific through the Oceans Management Research Network. That facilitated transition from academia to DFO was the critical path for everything that was to come and something she remembers as an important stepping stone.

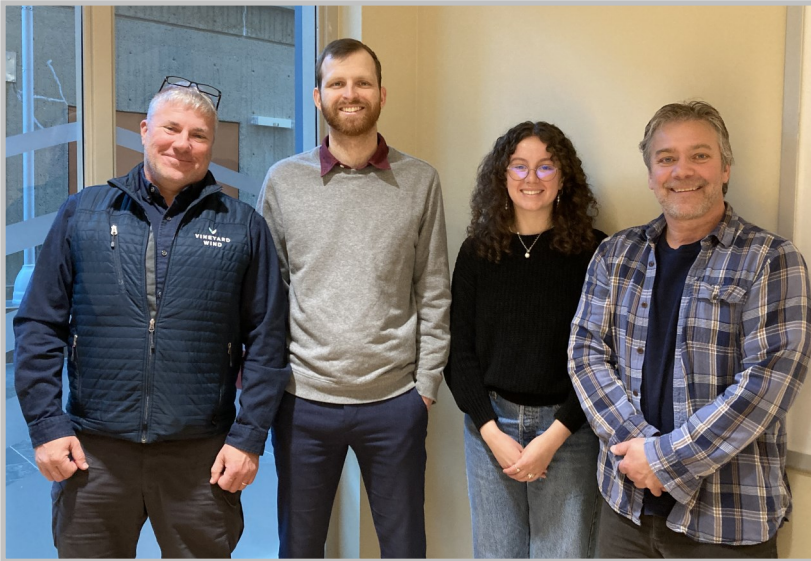


In 2004, Suzanne took a position in Ottawa in Corporate Policy and Strategy at the National Research Council focusing mainly on external stakeholders' relations for the Arctic and oceans-related programs. But a return to DFO was always in the cards and living on the oceans was always her dream so she moved to Nova Scotia with her family in 2019 her current role at the Bedford Institute of Oceanography.

Aquaculture Management is a complex program with many stakeholders, rights holders, and other coastal users. Marine Management challenges are common and program delivery can be extremely complex. This complexity, combined with her love for government, academia, young talent, and inspiring careers, drew her to the Professional In-Residence role.

*“I have seen firsthand how many of the federal leaders I have worked with along the way have broken down barriers and paved the way for new generations to work in a better space – with higher aspirations of equality, inclusivity, and respect – for everyone. I aspire to be one of those leaders. I feel that the federal government has a responsibility to set that standard for all Canadians and I am proud to be a part of the effort and culture moving forward.”*





### Jeannot Smith

In the spring, Jeannot Smith, MMM 1993, and Marine Liaison Officer of the [Vineyard Wind](#) project, gave a presentation to students, alum and faculty on the offshore wind farm off the coast of Massachusetts, USA.

The presentation highlighted the challenges of the complex interdisciplinary project that is engaging stakeholders including fishermen, residents, search and rescue teams.

L to R: Jeannot Smith, Kyle Gordon (MMM 2022), Claire Kleinknecht, MMM 2023 and Glen Herbert, MMM 1994.

### Artemio Abu

Art Abu, MMM 2003, Admiral and Commandant of the Philippine Coast Guard, travelled to Canada in June 2023. After official meetings in Ottawa, Art, his wife Carlota, and colleagues of the Philippine Coast Guard spent a few days in Halifax, with a goal of visiting the Dalhousie campus and catching up with former classmate Kristian Curran, and MAP Administrator, Becky Field.

Art presented MAP with the book “The Art of bring people together”, a reflection of Art’s first 100 days as leader of the Philippine Coast Guard.



### Weishan Wang

Congratulations to Weishan Wang, MMM 2017, who successfully defended her Interdisciplinary PhD thesis *Improving Shipping Governance in the Canadian Arctic by Integrating Inuit Perspectives and Area-Based Management: A Case Study of the Northern Low-Impact Shipping Corridors Initiative* in March 2023. Claudio Aporta was Weishan’s supervisor.

During Weishan’s IDPhD program, she participated in the [OpenThink Initiative](#), posting [blogs](#) related to her research. She was profiled for the Dalhousie Class of 2023 - [Weishan Wang Grad Profile](#).

Weishan has taken the position of Research Programs Manager with the Ocean Frontier Institute.

Best wishes from the MAP Community!

Fifth International Marine Protected Areas Congress (IMPAC5)



Maxine Westhead attended IMPAC5 in Vancouver BC in February this year. Maxine reports:

*It was a massive conference with 3000 in-person attendees and roughly 20 concurrent sessions over 6 full days. I was able to attend several sessions specific to youth and youth networks, and was exposed to several young leaders and activists from around the globe, including many Indigenous youth and leaders from BC and Canada. I have tucked these key contacts away for future reference. Hopefully contacts such as these will lead to future students from both Canada and abroad, with an eye to supporting Dalhousie's diversity and inclusion strategy.*

*As well, I was really impressed with the number of MAP students and graduates I found there! It really is a testament to the effectiveness of the program that so many graduates are working in the field of marine management and conservation. They are all thriving and loving their work - nice to see.*

Pictured above from left to right

Top row: Maryam Nakhostin, Delaney Ewing, Leah McConney, Noémie Roy, Jessica MacIntosh, Catherine Schram

Second Row: Lisa Chen, Nadia Dalili, Adrian Gerhartz, Hali Moreland, Reanne Harvey, Julie Reimer

Third Row: Erin Keenan, Debra Sinarta, Erin Keenan, Anna Naylor, Aimee Gromack, Chloe Ready, Magena Warrior

## Coastal Zone Canada 2023

The biennial [Coastal Zone Canada](#) conference was held in Victoria BC in June 2023 with the theme “Connecting Canadians with the Coast”. The conference brought together coastal zone management professionals to share their knowledge and best practices of the issues facing Canada’s coasts that are facing changing climate, pressures from development, and resource extraction.

The broad range of themes included:

- coastal and marine planning, conservation and management to increase resilience
- working together for coastal and marine stewardship
- coastal engineering and sustainable development
- nature-based and other solutions for climate change mitigation and adaptation
- coastal processes, hazards, and risk management
- innovation, technology and research

The conference was held over 4 days with keynote speakers, panels, concurrent sessions, exhibits and posters. The conference was enhanced by boat tours, a cultural walking tour, and other social activities. Marine Affairs was well represented by alum, adjuncts, associates and the MAP Administrator as attendees, oral and poster presenters and session moderators.

Coastal Zone Canada 2025 will be held in Charlottetown in 2025. Join the CZC email list to receive information on the 2025 conference, CZC news, and other events.



Dr. Lucia Fanning and Dr. Apurba Deb,  
MMM 1997



Alum Taylor Mason (2015), Elizabeth Vézina (2015),  
Leah Fulton (2021) and Alexandra Cole (2018)



Alum Hali Moreland (2019) and  
Julie Reimer (2015)



**MAP Matters** is published periodically by the Marine Affairs Program, Faculty of Science, Dalhousie University.

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*Dalhousie University is located in Mi'kma'ki, the ancestral and unceded territory of the Mi'kmaq. We are all treaty people.*



# DALHOUSIE UNIVERSITY