

CURRICULUM VITAE

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Nationality: Canadian

Professional Qualifications

2018 TC Polar Waters Advanced Training Certificate

2017 Nautical Institute Ice Navigator Level 2
#NI0001

1997 Canadian Certificate of Competency
Master Mariner Certificate number - CDN11230Q

1993 Liberian License of Competence
Chief Mate, Ocean-Going
License number 421974

1978 Commissioned Officer
Canadian Armed Forces (Navy)

Professional Education:

2008 Incident Command System Level IV

2006 Incident Command System Level II and III

2005 Bachelor of Maritime Studies, Memorial University of Newfoundland

2004 Ship and Company Security Officer Course

2003 Marine Spill Response Operations Course
(IMO On Scene Commander – Marine Spills)

Transportation Dangerous Goods Air and Surface

Chemical Tanker Endorsement Level I

1997 Simulated Electronic Navigation II

1996 Crude Oil Washing and Inert Gas Course

GMDSS General Operators Course and Certificate

Oil Tanker Endorsement Level 2

1994 Canadian Coast Guard
Command Operations (Honours)

Pollution Prevention Officer

Career History

Martech Polar Consulting Ltd.

1994 - Present

Marine Consulting, focused on Ice Pilotage and Navigation, Polar shipping and polar expedition logistics support. Onboard ice navigation and ice pilotage in Arctic, Antarctic, Eastern Canada and Baltic ice infested waters. Expert witness in Marine Insurance Arbitration with respect to ice navigation and polar operations. Contracts have included:

- Instructor, Polar Waters Training Course,
 - QMS Training Centre
 - Star Center
- Polar Operations operational review and development of Polar Waters Operational Manual
 - MOL LNG Transport
 - Nippon Marine Enterprises
 - Holland America Group
 - Windstar Cruises
- Operational review of Transport Canada Northern Marine Transportation Corridor study
- Polar Operations and voyage planning for Holland American Group-Seabourn
- Northwest Passage voyage planning/provision of onboard ice navigation for Arctia Shipping
- Arctic Research Cruise Support for Institute of Ocean Sciences, Sidney BC, Canada
- Arctic Shipping Analysis and Feasibilities studies for:
 - Shell International Trading and Shipping Company
 - Vulcan
 - Teekay Shipping (Canada) Ltd.
 - Wright Maritime
 - Fraser Yachts
- Ice Navigation/Pilotage:
 - Global Ocean Developments
 - Arctia Shipping
 - Arctia Offshore
 - Fednav
 - Nippon Marine Enterprises
 - Tactical Marine Solutions/Crystal Cruises
 - United States Coast Guard
 - Schuyler Line Navigation Company
 - Windstar Cruises
- Operational plan and design review of high ice class LNG ship for MOL
- Steering Committee Member Polaris/European Space Agency User Needs for Next Generation Polar Observation Systems
- Lead Instructor in “Introduction to Cold Temperature and Ice Operations” for Lloyds Maritime Academy
- Program Director and Course Development Author for Lloyds Maritime Academy “Certificate in Polar Shipping” course
- Arctic shipping and transportation research for MIL Systems/Government of Northwest Territories
- Arctic shipping and transportation research for Canarctic Shipping Company;
- Development of Arctic Ice Navigator standards for Transport Canada, Ship Safety Northern Region;
- Arctic Passage Planning Manual for Enfotech Technical Services/ Transport Canada, Ship Safety, Prairies and Northern Region.
- Reflagging MT Avalon Spirit – Teekay Shipping (Canada) Ltd.
- Technical Consultant, Crossing the Line Films.
- Development of Ice Navigation Procedures & Training Competencies Teekay Shipping

Ltd.

- Insurance Arbitration Expert Witness on Ice Operations:
 - MV Thai Happiness – Caspian Sea
 - MV Rubicone – Gulf of Finland
 - MV Nikator – West Coast Greenland
- Presented at numerous International Polar, Arctic and Ice Navigation related conferences on aspects of Ice Navigation and Polar Shipping Operations

Canarctic Shipping Company Limited 1995 - 1997

Second Officer

MV Arctic - 30,000dwt Canadian Arctic Class 4 Equivalent OBO

Bulk concentrate, petroleum product and crude oil cargo experience. Late and early season high Arctic and midwinter mid Arctic multi-year ice operations. Foreign-going trade between North America North, Central and Southern Europe and North Africa.

Operations Development Officer

- Responsible for the development of shipping business plans, transportation and shipping research with emphasis on Polar region shipping.
- Provided advice on Arctic shipping and navigational concerns and factors to senior management and research staff.
- Provided liaison between ship operations and management staff. Relieve for Manager Ship Operations.

Canadian Coast Guard

1979 – 1995, 1997 - 2013

Regional Director Fleet – Western Region

- Responsible for Coast Guard operations on Pacific Coast, Western Arctic, Mackenzie River and Lake Winnipeg and within boundaries of British Columbia, Alberta, Saskatchewan, Manitoba, Yukon and Northwest Territories.
- Management of departmental vessels, small boats, aircraft, service delivery platforms and personnel through annual and long term planning, directing of day to day delivery and monitoring of activities to meet regional operational requirements.
- Meeting the needs of a broad client base balanced against operational response capabilities cost effectively. Ensuring a cooperative balance between service delivery to Departmental and Coast Guard core programs as well as diverse external clients and Other Government Departments.
- Overseeing approximately 600 personnel with an annual budget of \$52 Million through four direct report Superintendents, twenty-nine Commanding Officers, and twenty-eight Officers in Charge of stations.
- Senior Canadian Working Group Delegate and Deputy Head of Delegation to North Pacific Coast Guard Forum
- Direct Regional fleet human resource management for Fleet Western including recruitment, assignment, training, development and compliance with crewing standards and operational requirements.

Regional Director Fleet – Pacific Region

- Management of departmental vessels, small boats, aircraft, service delivery platforms and personnel through annual and long term planning, directing of day to day delivery and monitoring of activities to meet regional operational requirements.
- Meeting the needs of a broad client base balanced against operational response capabilities cost effectively. Ensuring a cooperative balance between service delivery to Departmental and Coast Guard core programs as well as diverse external clients and Other Government Departments.
- Overseeing approximately 500 personnel with an annual budget of \$50 Million through five direct report Superintendents, twenty-three Commanding Officers, and nineteen Officers in Charge of stations.

- Direct Regional fleet human resource management for Fleet Pacific including recruitment, assignment, training, development and compliance with crewing standards and operational requirements.
- Canadian delegate to North Pacific Coast Guard Forum Combined Operations Working group providing extensive international affairs experience in Pacific Ocean safety and security operations.
- Lead Coast Guard officer for Vancouver 2010 Winter Olympics maritime security planning and operations.

Superintendent Regional Operations Centre:

- Managed the CCG Fleet Regional Operations Centre (ROC) staff (5 personnel) and tasks, including planning and coordination of deployment, tracking, and usage of all regional fleet resources, providing output and reports for senior departmental management and external clients.
- Facilitated delivery of Coast Guard, Science, Fisheries Conservation and Protection, Canada Border Services Agency, Transport Canada, Department of National Defence, RCMP and OGD programs ensuring cooperative interaction between competing client needs.
- Developed and fostered new contacts within Maritime Security community in line with Coast Guard's newly evolving Maritime Security role by taking a pro-active role in discussion and development of procedures, exercises and program development.
- Managed ROC Branch, including financial, materiel and human resources, preparing business plans, annual fleet vessel and aircraft operational schedules, developing procedures and standards, negotiating goods and services contracts and establishing service levels with clients.
- Provided input, advice and recommendations for development and implementation of Fleet resource operational plan, contingency plans, objectives, strategies and priorities.

Superintendent Safety and Security – Designated Person Ashore:

- Responsible to ensure vessels and stations are maintained current and comply with all relevant statutes, regulations, codes and orders through dissemination of info and periodic inspection.
- Planning of programmed compliance audits and inspections to continuously improve fleet safety, security and efficiency.
- Conducted investigations concerning safety and security related occurrences, to find cause and recommend remedial action.
- ISM Designated Person Ashore.
- ISPS Company Security Officer.

Commanding Officer: CCGS Sir Wilfrid Laurier, CCGS John P Tully, CCGS W. E. Ricker, CCGS Tanu, CCGS Gordon Reid, CCGS Vector, CCGS Point Henry and CCGS Ready

- Responsible for program planning and execution to meet operational and financial objectives.
- Responsibility Centre Manager for ship budgets up to \$5M.
- Coordinated of onboard department's activities, maintenance and operation routines to ensure operational and corporate commitments are effectively and efficiently met.
- Provided direct liaison between program leaders and fleet management.
- Ensured vessel's compliance with all applicable international, national, regional and local regulations and orders.
- Managed and encouraged change within vessel community to meet the evolving Coast Guard vision as a Special Operating Agency.
- Supervised and managed human resources up to 50 officers, crew and supernumeraries.

Chief Officer:

- Supervised and planned deck maintenance routines, pay and personnel administration, ordered and maintained stores, supplies and spare stocks, annual budget formulation and commitment control and written reports as required.
- Liaison with embarked science teams and co-ordination of deck department support.
- Set-up deck and supply department routines, procedures and operations to comply with all appropriate regulations and orders. These included personnel administration, commitment

control, operational and maintenance routines and activities.

- Supervised deck crews of up to 8 crew.
- Small vessel and on site operations remote from the ship cargo loading and unloading, use of deck cranes and derricks.

Ships Officer:

Navigation and Pilotage duties in North Atlantic Offshore, North Pacific Offshore, Coastal North, Central America and Western South America, Arctic and Great Lakes. Extensive experience in all Coast Guard service delivery elements.

Deck Department Human Resource Officer:

- Responsible for deck officer and crew assignments, personnel development and training program development and co-ordination.
- Short and long term program human resource planning.

Regional Fleet Standards Inspection Officer:

- Responsible to ensure vessels and stations were kept current and comply with all relevant statutes, regulations, codes and orders through dissemination of info and periodic inspection.

Publications:

Polar Ship Operations: A Practical Guide

- 2012 Nautical Institute Publications
- Second Edition, 2018 Nautical Institute Publications

Analysis of Ice Related Issues along North Slope Alaska

- February 2008, Shell International Trading and Shipping Company

Ice Navigation in the Northwest Passage

- August 2006. Journal of Ocean Technology

Polar Pathways – Issues with Increased High Latitude Tourist Traffic

- August 2006, Seaways – the Journal of the Nautical Institute

Analysis of Ice Related Issues on Arctic Shipping Routes

- October 2005, Teekay Shipping (Australia) Pt

Ice Navigation in the Northwest Passage

- October 2005, Ocean Innovation 2005 Conference

Development of Ice Navigation Training Competencies and Marine Operations Management System Ice Navigation Procedures

- July 2005, Teekay Shipping (Canada) Ltd

Degree Thesis - Alternative Operational Fleet Management for Canadian Coast Guard Icebreaking Vessels

- July 2004, Memorial University of Newfoundland

Feasibility Study – Purchase and Commercial Operation of a High Ice-class Icebreaker

- April 2004, Memorial University of Newfoundland

Position Paper: International Ice Navigator Course Development

- 1995, Canarctic Shipping Company Ltd and Transport Canada

Membership of Professional Bodies:

The Nautical Institute, Immediate Past President, International (President 2016-2018)

- Chair, Ice Navigator Working Group
- Past Chair, Assurance Committee
- IMO Delegate on Ice Navigation and Shipping Matters
- Delegate International Ice Charting Working Group

The Nautical Institute – Fellow

The Royal Geographical Society – Fellow

Company of Master Mariners of Canada – Member

Arctic Institute of North America – Life Member

United States Naval Institute – Member

Honours and Awards

Queen's Diamond Jubilee Medal

Canadian Coast Guard Exemplary Service Medal

United States Coast Guard Antarctic Service Medal

Canadian Coast Guard Commissioner's Commendation