

## ICETECH 2014 – Presenting Author Biographies

### **ICETECH14-101 and -105: Ove Tobias Gudmestad**

Dr Ove Tobias Gudmestad is since September 2008 professor of Marine Technology at the University of Stavanger. He has a PhD in wave force analysis and experience from engineering, field development studies, development projects and research in Statoil from 1975 to 2008. When he left Statoil, he was an advisor Marine and Arctic technology.

Gudmestad has published papers on the actions from waves and earthquakes, on the risk involved in marine operations and on Arctic field developments. He has also filed several patent applications on offshore development engineering.

---

### **ICETECH14-102: Pradeep Bobby**

Pradeep is with the Remote Sensing group at C-CORE and leads the Earth Observation Team. He has worked on a number of projects using satellite Synthetic Aperture Radar (SAR) for marine and land-based applications. Pradeep has managed research and operational Ice surveillance and mapping projects for local, national and international entities for government and commercial clients. Much of his recent work has been focused on identifying and characterizing ice features of interest using satellite data. His favorite ice experience was a field expedition where he was part of a team that deployed beacons and carried out observations and measurements on Peterman Ice Island A when it was off the coast of Labrador and measured over 60 square kilometres.

---

### **ICETECH14-104: Md Samsur Rahman**

Md Samsur Rahman is a Masters student in the Faculty of Engineering and Applied Science at Memorial University. Samsur's area of research is "Integrity of Glass-reinforced Plastic (GRP) Vessels under Ice Loading."

---

### **ICETECH14-106: Wylie Spicer, Q.C., Counsel**

Wylie is based in Calgary, Canada. He focuses on maritime and offshore oil and gas issues.

Wylie has more than 35 years experience. He has taught maritime law at law schools and has published extensively. Wylie has handled shipping disputes in many jurisdictions, both in courts and in Shipping Casualty Inquiries.



Wylie and Peter are members of Norton Rose Fulbright Shipping Team, providing advice to clients worldwide.

### **Alternate presenter for ICETECH14-106: Cameron Greaves**

Cameron Greaves is an associate in the energy practice group of Norton Rose Fulbright. He works primarily on industry agreements for producers and service companies, both domestically and abroad. He is also involved in the purchase and sale of oil and gas assets including several legacy assets in the western sedimentary basin. Prior to law, Cameron worked on several industrial projects in the Canadian oil sands and the Middle East.

---

### **ICETECH14-109: Evan Martin**

Mr. Evan Martin is the Operations Manager and a Naval Architect with AKAC Inc. Evan joined AKAC during his undergraduate degree in 2005 as a Naval Architect and has been full-time with AKAC since 2011. Upon completing his undergraduate degree in 2008, Evan started a master's degree in Naval Architecture at Memorial University, specifically related to the prediction of downstream propeller wake with application in breaking ice using azimuth thrusters. Outside of work and school, Evan enjoys hiking and skiing as well as photography.

---

---

### **ICETECH14-110: Professor Pentti Kujala**

Pentti Kujala is a professor of marine technology (safety) at the Aalto University, School of Engineering in Finland. He has about 35 years of research experience related to design of marine structures and ice-going vessels. He has been working before e.g. at Lloyd's Register of Shipping in London, VTT in Finland and Aker Yards in Finland. He got the degree of doctor of technology in Naval Architecture at Helsinki University of Technology on 1994. The main research interests have been devoted to the risk analysis of marine operations both in open water and in ice and development of innovative structural solutions for various types of ships. He has published about 150 papers both in international journal and high level congresses.

---

### **ICETECH14-111: Peter Marshall**

32 years designing offshore platforms for Shell, including two in Cook Inlet. Continuing work on API subcommittee for Offshore Structures for 21 more years. Visiting professor at National University of Singapore, where Vul Thang was his student.

---

### **ICETECH14-115: Dr. Douglas A. Mitchell**

Douglas Mitchell is a metocean specialist at the ExxonMobil Upstream Research Company (URC), Houston. He obtained his Ph.D. in physical oceanography from the University of Rhode Island's Graduate School of Oceanography in 2003. He worked at the Naval Research Laboratory from 2003 to 2005 doing basic oceanographic research, before joining ExxonMobil.

---

### **ICETECH14-117: Jed M Hamilton, Senior Arctic Consultant, ExxonMobil Upstream Research Company**

Jed earned Bachelors and Masters of Science Degrees in Civil Engineering from the University of Texas at Austin. He has been with ExxonMobil for nearly 33 years. He has held a leadership position in ExxonMobil's Arctic technology program since 1999, when he began work on offshore facilities and pipeline design criteria for the Sakhalin 1 development. His current position is Senior Arctic Consultant, wherein he helps define an R&D program consistent with ExxonMobil's Arctic E&P objectives and advises management on Arctic issues and technology readiness. His recent publications concern ice gouging effects on Arctic pipelines and ice management for floating drilling in Arctic waters. He also serves as ExxonMobil's subject matter expert for Arctic-related projects funded by the Newfoundland-Labrador R&D obligation.

---

### **ICETECH14-118: Paul Spencer**

Paul Spencer started working on ice related problems at Canmar in the early 1980's and found it to be an interesting topic for a physicist. Since then he has worked on the design and construction of spray ice islands, ice roads, bridges, laboratory and field testing of ice and numerical analysis of various aspects of ice loads and Gravity Based Structures. An ongoing interest spanning at least 25 years has been in the analysis of ice strength data to provide design guidelines.

---

### **ICETECH14-119: Ruixue Wang**

Ruixue started his ice and Arctic engineering career in a sea ice management project in the Bohai Sea in 2002. He has a PhD degree in Civil Engineering from Clarkson University and a PhD degree in Engineering Mechanics from Dalian University of Technology. He has joined Ausenco Sandwell for almost two years and working on all challenging Arctic Engineering projects within the group. He is currently the Ausenco project manager for Eni Nikaitchuq offshore ice road design and supervision project. He also has 4 years sea ice management field experience

---

### **ICETECH14-120: Dan Oldford, PEng**

Dan was born in western Labrador, a small mining town where winter lows can go well into the -40s. He earned a bachelor's degree from Memorial University in the Ocean and Naval Architectural Engineering program. Dan started work with the American Bureau of Shipping as a surveyor where he was stationed in various offices including Halifax, Toronto, and St. John's, NL. As a surveyor in Canada he saw, first hand, many problems that ships and their operators face in low temperature environments. This was most prominent when boarding non winterized foreign vessels visiting Canadian ports in the winter months. In 2012 he joined the ABS Harsh Environment Technology Center located in St. John's, where he is now involved in several projects including ice loads on azimuthing propulsion units.

---

### **ICETECH14-121: William Cowardin**

Bill Cowardin graduated in 1989 from Virginia Tech with a BS in Ocean Engineering. He has worked for John J. McMullen Associates, NAVSEA, the Marine Spill Response Corporation, Techmatics/Aneton and Alion Science and Technology. At Alion he has run the systems engineering and most recently the ship signatures and survivability organizations. Following the events at Macondo in 2010, Bill led a pilot study to assess naval survivability analysis applications for the offshore industry which resulted in the creation of Alion Offshore of which he is Director of Operations. Bill is very active in SNAME where in addition to serving on numerous committees he has been a past Chairman of the Chesapeake Section and a past Regional Vice President. He is currently Co-Chair of the SNAME Maritime Conference. He is also an active Boy Scout leader.

---

### **ICETECH14-122 and -123: Frank G Bercha**

Frank obtained his bachelor from UBC in 1963 and PhD degree from U of C in engineering in 1972 with 5 years experience in bridge, highway, pipeline, facilities, and structural design in between degrees. In 1972 he became involved in the design of Arctic production and transportation systems, with several APOA projects, and in 1975 founded the Bercha Group specializing in risk analysis and probabilistic design, with a foray into remote sensing including acquisition and operation of SLAR aircraft and CCRS SAR operation and application to ice and iceberg monitoring and mapping from 1980 to 1992. Over the last two decades, however, Bercha has focused on risk analysis with applications to the offshore, to pipelines, power generation facilities, marine transportation, land use planning and other applications. He has directed substantial pioneering work in the area of Escape, Evacuation, and Rescue (EER), including development of and validation of human performance EER models and their analytical extension to performance in life threatening conditions. Frank, having presented expert evidence at various national and international tribunals, is certified as a risk analysis expert by AEUB, NEB, CPUC, BOEM, CNOPB, and CNSOPB as well as several federal courts and has published over 200 peer reviewed papers and his textbook, Risk Analysis – Methods and Applications, was first published in 2012.

---

### **ICETECH14-124: Juan Acevedo**

Juan completed his Bachelor's in Electronic Engineering at Javeriana University in Cali, Colombia, and his Masters degree in Electrical Engineering at Memorial University of Newfoundland. He has been Chief Instrument Engineer at CANATEC since 2011.

---

### **ICETECH14-125: Tayyebe Seif**

Tayyebe Seif has a Master's Degree in Naval Architectural Engineering and is currently a graduate student at Memorial University of Newfoundland. She has worked in a classification society for 5 years and her area of expertise is structural and steel fracture analysis.

---

### **ICETECH14-126: Abdullah Jamaly**

Abdullah Jamaly is a Naval Architect Engineer and he is studying Master's at Memorial University of Newfoundland in Ocean and Naval Architectural Program. He has conducted numerical and experimental analysis on structure fracture under ice loading. Prior to starting his graduate study at Memorial University, he has worked for 5 years as a Surveyor and Structural Engineer at classification societies.

---

## **ICETECH14-127 and -172: Claude Daley**

B.Eng. (Western), M.S.E (Princeton), D.Sc (Helsinki) FEC P.Eng.  
Professor - Ocean and Naval Architectural Engineering Program  
Principal Investigator- STePS2 Project

- Graduated from the University of Western Ontario in 1977 (B.Sc. in Civil Engineering), Princeton University in 1978 (M.S.E in Structures and Mechanics) and Helsinki University of Technology in 1992 (D.Sc. ice mechanics and arctic naval architecture).
  - Joined Arctec Canada Limited (now BMT Fleet Technology) in 1979, working in Ottawa and Calgary.
  - Joined Memorial University, in 1995. Now Full Professor.
  - Former Chair of Ocean and Naval Architectural Engineering Program (6 yrs)
- 

## **ICETECH14-130: Hannu Jukola**

Hannu Jukola, graduated as a Naval Architect with a specialization in hydrodynamics, from the Helsinki University of Technology in 1990. Shortly after graduation he joined Aquamaster-Rauma Ltd., where he worked in numerous different positions - including general naval architecture, propeller design and customer support, until the year 2000 when he departed the company – by then a part of Rolls-Royce Ltd. – to join Steerprop Ltd. He has worked at Steerprop Ltd. since the year 2000. His responsibilities at Steerprop Ltd. have been - in addition to hydrodynamics and propeller design – being the sales manager for Nordic countries as well as managing R&D programs. In recent years he has been involved in the development of high power CRP (Contra-Rotating Propellers) propulsion units for ice-going and icebreaking vessels as well as cruise vessels operating in open waters.

---

## **ICETECH14-132: Tony King**

Tony King is Director of Ice Engineering at C-CORE in St. John's, Newfoundland and Labrador. His Master's thesis "Iceberg Scour Risk Analysis for Pipelines on the Labrador Shelf", submitted in 2002, helped initiate a number of seabed survey programs to characterize the iceberg scour regime off Labrador, primarily on the Makkovik Bank. This work is described in the following presentation. In addition to managing and executing numerous Arctic and sub-Arctic focused projects, he has managed a number of projects to evaluate environmental conditions on the Labrador Shelf relevant to exploration and production options, and is currently managing a project for Nalcor Energy titled "Labrador Sea Metocean Study" which is focused on the newly identified deepwater basins off the Labrador Shelf.

---

## **ICETECH14-134: Michelle Johnston**

Before joining the National Research Council 15 years ago, Michelle completed her M.Eng. with Memorial University and her Ph.D. with Universite Laval. Since then, she has examined forces on ships and offshore structures in ice. Her experience comes from conducting more than 15 Arctic field programs on first-year ice and old ice. Michelle recently published a journal paper about the borehole strength measurements on thick multi-year ice that she has made for the past decade. Those results are included in her presentation today, along with thousands of old ice measurements from other sources.

---

## **ICETECH14-135: Denise Sudom**

Denise Sudom has worked on ice engineering problems since 2002, and has spent most of that time with the National Research Council in Ottawa dealing with "icy" topics such as loads on offshore structures, ice ridge properties, seabed gouging, iceberg and sea ice forecasting, impurities in ice, and offshore evacuation.

---

## **ICETECH14-136: Yan Qu**

Yan has over 10 years work experience in arctic and offshore engineering. His work experience has been related to full scale measurement / data analysis for structures under ice and wave actions. His work encompasses structural analysis of offshore structures, including jackets, GBS, and also deepwater floating structures such as TLP, Spar and SEMI.

---

### **ICETECH14-137: Mohamed Sayed**

Mohamed Sayed is a Research Officer at the National Research Council in Ottawa. Since 1982, he has worked on ice engineering problems. For the past 15 years, his work focused on numerical modelling of ice-structure and ice ship interaction as well as ice forecasting.

---

### **ICETECH14-138: Louis Poirier, MSc, PhD, P.Phys.**

Louis Poirier is a researcher with the Oceans, Coastal and River Engineering Portfolio at the National Research Council of Canada. Louis joined the NRC in 2011 after successfully defending his PhD thesis on Ice friction in the Sport of Bobsleigh at the University of Calgary. Louis represented Canada on the national bobsleigh team from 2003-08 and presented his research to the international governing body for bobsleigh and skeleton during the 2011 World Championships. This research will be used by Ingenieurburo Gurgel to predict possible sled speeds and trajectories for new track designs in the future. At NRC Louis has worked on various projects such as the Beaufort Sea Engineering Database which compiles relevant environmental data to help clients make engineering decisions in the Beaufort Sea, the MOTAN, MOTion ANalysis system, to study ship impacts with ice floes, and the study of Sea Ice Ridges in collaboration with Norut Narvik.

---

### **ICETECH14-139: Michael Denbina**

Michael is a PhD student in Geomatics Engineering at the University of Calgary. In 2010 he received his BSc in Electrical Engineering at the University of Calgary. His research interests are in radar polarimetry and its use in maritime applications

---

### **ICETECH14-141: Seong Yeob Jeong**

- M.Sc. (2008) & B.Sc. (2006), Department of Ocean Engineering, Korea Maritime & Ocean University, Busan, South Korea

#### Previous Position / Work Experiences:

- **Dec. 2008 ~ Current**, Research Scientist, Research Section: Arctic Operation, Korea Research Institute of Ships and Ocean Engineering (KRISO), Daejeon, South Korea
- **Nov. 2008 ~ Current**, Doctoral course, Arctic Research Lab., Department of Ocean Engineering Research Section: Ice Resistance Prediction, Korea Maritime & Ocean University, Busan, South Korea
- **July-Aug. 2010 & 2011**, Research Scientist of arctic cruise of Korean icebreaking research vessel, ARAON Research Section: Performance in ice, field measurement, Chukchi & Beaufort Seas

#### Research Interests:

- ~ Ships in ice
  - ~ Model tests for icebreaking vessels and arctic structures
  - ~ Global ice load and local ice pressure
  - ~ Field measurement in Arctic
- 

### **ICETECH14-142: Andrew Kendrick**

Andrew Kendrick is Vice President, Operations of STX Canada Marine Inc's Ottawa office. He is a professional ocean engineer and naval architect with over 30 years of experience, whose work with ice-capable ships started on Canada's Polar 8 icebreaker project in the early 1980's. Since then he has been involved in design, applied research and development projects for ships in ice, and has participated in the development of rules, standards and numerous guidance documents for design and operation in ice-infested waters.

Mr. Kendrick is currently working on ship design projects ranging from the Canadian Navy's Arctic Offshore Patrol Ship and the CCG Polar Icebreaker project through to Arctic oil and LNG tankers, and ice loads on offshore platforms. He is advising the Canadian government on the updating of the Arctic Waters Pollution Prevention Act and its associated regulations, and is a member of the Canadian delegation at IMO developing a mandatory Polar Code governing ship design and operations for polar waters.

Mr. Kendrick is the author of numerous technical publications and other articles on ships and offshore structures in ice. He has delivered courses on polar ship design and operation in North America, Europe, and Asia.

---

## **ICETECH14-144: Nidzhat Isakov**

Nidzhat Isakov heads the Research and Design Group, which focuses on developing the principles of development of advanced technologies for the Arctic shelf. The group is housed in the Institute of Nuclear Transport Power Engineering, which is part of the NRC “Kurchatov Institute”. The main areas of research are: the use of nuclear power for electricity supply of oil and gas resources development of the Arctic shelf, development of innovative technologies for designing technical means for the Arctic shelf, including the nuclear-powered icebreakers, floating nuclear power plants, tankers and gas carriers. Aspects of the research are: industrial and ecological safety, energy efficiency and cost effectiveness.

---

## **ICETECH14-147: Tony Vollmers**

Tony Vollmers is the lead mechanical engineer for STX Marine and has been involved in the marine industry as a design engineer for over 9 years. He has experience in the mechanical, machinery, and electrical design of many modern vessels including tugs, offshore supply vessels, ferries, floatels, Navy and Coast Guard vessels. He is also a specialist in novel propulsion systems and LNG power plants. Tony was the mechanical design lead for the Canadian Coast Guard’s Polar Icebreaker as well as the Canadian Navy Arctic Offshore Patrol vessel and was responsible for all aspect of the marine systems including the supervision of HVAC and electrical design for the two vessels.

---

## **ICETECH14-148 and -174: Ivana Kubat**

Ivana Kubat is a researcher at the National Research Council in Ottawa. She has worked on ice engineering issues since 1998 and has been involved with many projects including numerical modeling of sea ice dynamics, development of an iceberg drift model for operations on the Grand Banks, West Coast of Greenland, and Barents Sea, development of a pressured ice forecasting model, establishing requirements for exploratory drilling in ice-covered deep waters, evaluation of historical ice conditions in Canadian Arctic shipping lanes, damage to vessels in ice-covered waters, and verification of the systems used for regulating shipping in the Arctic from the Arctic Pollution Prevention Regulations.

---

## **ICETECH14-149: Heather Tomaszek**

Heather Tomaszek is a Naval Architect at the Center for Innovation in Ship Design, Naval Surface Warfare Center Carderock Division, West Bethesda, Maryland, USA. She supports U.S. Navy research, design, and development activities for future ship concept and capabilities. She received a B.E. in Naval Engineering and a M.E. in Ocean Engineering from Stevens Institute of Technology.

---

## **ICETECH14-150 and -152: Abdel Ghoneim**

Dr Ghoneim graduated with Honors and B.S. degree in Civil Engineering from Cairo University in 1970. He got his M.S. and Ph.D. degrees from the University of Calgary in 1975 and 1978, respectively. He worked as a consulting engineer until 1980 when he joined Dome Petroleum/CANMAR as supervisor of ship design group dealing mainly with Arctic Technology for icebreaking vessels and Beaufort Sea platforms. He was the project Manager for the Canmar Kigoriak and Robert LeMeur full scale impact testing programs carried out in the Beaufort Sea and partially sponsored by the Canadian Coast Guard. He joined DNV in 1985 where he got involved immediately in development of DNV Rules for ships navigating in ice and MOU’s in ice. He worked for DNV in Calgary, Oslo, and Houston into 2012. Currently he is Engineering Manager at Atkins. Dr Ghoneim has also been actively involved in several API, ISO and SNAME committees.



In May of 2014, Dr Ghoneim was inducted as a D.OE (Diplomate Ocean Engineer) during the ASCE OTC Gala. Of this honour, he says “It was a great surprise to me”.

---

## **ICETECH14-153: Paul Stuckey**

Paul Stuckey joined C-CORE in 2003. He holds a Masters in Ocean and Naval Architectural Engineering from Memorial University and has over 15 years of experience in ice engineering and the offshore oil and gas sector. He has extensive experience in ice mechanics, probabilistic analysis, risk assessment and structural analysis, with focus on the Grand Banks, offshore west Greenland, Caspian Sea, Labrador Sea and Barents Sea. He has been closely involved with both GBS and FPSO projects, providing sea ice and iceberg design loads, and assessing probability of iceberg impact.

---

## **ICETECH14-155: Aaruun V M Arunachalam**

I did my undergraduate studies in civil engineering (University of Madras), my masters in ocean and hydraulic engineering (Indian Institute of Technology - Madras) and PhD in engineering mechanics from (Indian Institute of Technology - Madras).

Before I came to Canada about 34 years ago, I have seen ice only in the fridge and cocktail glasses. My basic training was in engineering mechanics and computational fluid mechanics.

However, I have applied the principles of engineering mechanics to other related areas such as ocean wave mechanics, ocean-wave-structure interaction, fluid flow and chemical mass-transfers within human system.

We know that ice and water is essentially one and the same except for a phase change and issues associated with that change in phase.

So, after I came to Canada, I slowly changed my face – from applying engineering mechanics concepts to wave mechanics and wave-structure interaction to ice-mechanics and ice-structure interaction areas.

I am currently engaged in attempts to develop an equation for predicting ice-induced forces on rigid, vertical structures of given structure width, due to an ice-sheet moving with a velocity and has certain thickness and mechanical properties.

We are much closer to that final equation. Next stage would be to extend the concepts to vertical compliant-structures, sloping rigid and sloping compliant-structures and ship structures.

---

## **ICETECH14-157: Todd Mudge**

A physical oceanographer and the Consulting Services Manager with ASL Environmental Sciences Inc. Todd began working with ASL in 2008. Since then, he has managed dozens of metocean projects in the Arctic and around the world, as far south as Tanzania.

Before 2008, he was working with SonTek/YSI, and ended up making current measurements from the ice of the Mackenzie River with Environment Canada and the Amur (Heihe) River on the Siberian/Chinese border with the Heilongjiong Hydrology Bureau. Previous to this, at Dalhousie University, he was making boundary layer measurements in the near-shore wave environment and turbulence measurements within the bottom boundary layer of a seamount, while he was at University of Victoria.

For this presentation, Todd will investigate the near-ice boundary layer by using a large data set of ocean currents from the Chukchi and Beaufort Seas.

---

## **ICETECH14-158: David Fissel, Chair and Senior Scientist, ASL Environmental Sciences Inc, Victoria, BC**

After completing an M.Sc. in physical oceanography at the University of British Columbia in 1975, David worked as a research oceanographer at the DFO Institute of Ocean Sciences. In 1977, he co-founded ASL Environmental Sciences Inc. (originally Arctic Sciences Ltd.), and has held a number of senior positions in the company. David Fissel has managed hundreds of oceanographic projects, involving studies of ocean currents, waves, and sea-ice spanning all three oceans bordering Canada as well as overseas projects. Most of these projects involved input to the design of offshore oil and gas facilities, port development, or environmental assessment and monitoring for coastal and deepwater developments. David has served on the many Boards and advisory committees including Ocean Networks Canada at the University of Victoria; and the Marine Environmental and Observation Prediction and Response (MEOPAR) National Centre of Excellence (NCE) at Dalhousie University. He is the CSA Working Group Chair for Metocean (ISO 19901-1).



---

## **ICETECH14-160: Jukka Salminen**

Mr. Jukka Salminen is Chartering Manager of Arctia Shipping. He has joined the company 2006. He is Master Mariner and DP operator. He started his career at sea in 1997, and since that he has served onboard several types of vessels, including oil tankers, ferries, yachts, cruise ships and offshore supply vessels. Prior to joining Arctia's office team he served as a deck officer/DPO onboard most of the Arctia's icebreakers and multipurpose icebreakers.

---

## **ICETECH14-161: Rocky Taylor**

Dr. Rocky Taylor is an Assistant Professor and CARD Chair in Ice Mechanics at Memorial University of Newfoundland, where he conducts research spanning multiple scales of the ice-structure interaction process to develop models of ice loads which are a dominant consideration for ships and structures designed for operations in ice-prone regions. This work ranges from fundamental investigations of the physical mechanisms that limit ice forces during interactions to the development of robust probabilistic methods that can be employed in design practice. In addition, he also serves as the Principal Consultant for the Ice Mechanics group at the C-CORE Centre for Arctic Resource Development. In this role he is responsible for the planning and management of long-term engineering research programs designed to address major technical challenges faced by the offshore oil and gas industry as they seek to explore and develop offshore resources in Northern frontier basins. The emphasis of his present work at CARD is the development of new models of ice failure processes, as well as engineering design methods for floating and fixed platforms. In addition to having the privilege of leading a highly capable group of researchers in the areas of ice environmental characterization, ice ridge and rubble modeling, and ice failure mechanics analysis, Rocky works closely with a team that is developing new tools for assessing loads on floating structures in managed and unmanaged ice conditions. He also presently supervises a number of graduate students conducting research in this field.

---

## **ICETECH14-162: Jochen Tijsen**

Jochen Tijsen is a Dutch engineering student studying at Delft University in his final year of a master's program in Offshore Engineering. He recently completed his work internship as an exchange student at Memorial University in Newfoundland, where he worked on ice engineering activities in the Steps2 research project. Jochen has developed a passion for arctic engineering and has returned to Memorial University and the Steps2 project for the experimental phase of his Masters thesis, which will be completed and defended back in Holland in the spring of 2015.

---

## **ICETECH14-164, -165, and -166: Göran Wilkman, Wilkman Arctic Adviser, Managing Director**

- M.Sc, Naval Architecture, Helsinki University of Technology
- SNAME: Fellow

Göran Wilkman works as consultant in Wilkman Arctic Adviser company which he started in September 2012 after retiring from his daily work (after 39 years) at Aker Arctic Technology. In the beginning of 2005 Göran Wilkman joined the newly founded company Aker Arctic Technology Inc, where he has been in charge of marketing & sales activities, projects and operation of the Aker Arctic model basin. During the years starting from 1973 at the Wärtsilä Ice Model Basin (WIMB) he has been involved in all fields of the development of activities and solutions for the icy waters including; vessel development, close to 100 field expeditions, operational, technical and economical consultations as well as testing of solutions both in model scale and full scale conditions. He has also published in international journals and given presentations in international maritime conferences some 80 papers.

His carrier has taken him to numerous places on the globe where no travels are normally arranged. This has allowed him to get familiar with different cultures and helped to understand the diverse of human life around the planet. Sometimes it is hard to be away from home for weeks and months. To be able to do this you have to be in good shape both mentally and physically. To keep up these he has been keen on bicycling, rowing and playing badminton and when he has been at home he truly has been with his two children (now successful adults) and wife.

---

## **ICETECH14-167: Richard McKenna**

Richard McKenna is an independent consultant based in Canada. He has a PhD in civil engineering and has worked for over 30 years on ice and arctic issues.

---



## **ICETECH14-168: Jungyong (John) Wang**

Dr. Wang holds a Ph. D. in Ocean and Naval Architectural Engineering from Memorial University. As a Research Officer at National Research Council, working primarily in the Marine Vehicle program, he has been extensively involved in various model testing programs including ships and structures in ice, propeller ice interactions and podded propulsors in ice. He has also performed various numerical simulations using the Finite Element Method (FEM, LS-DYNA). In addition to his research activities, he is an adjunct professor in the faculty of Engineering and Applied Science at Memorial University since 2012.

---

## **ICETECH14-169: Paul Stuckey**

Paul Stuckey joined C-CORE in 2003. He holds a Masters in Ocean and Naval Architectural Engineering from Memorial University and has over 15 years of experience in ice engineering and the offshore oil and gas sector. He has extensive experience in ice mechanics, probabilistic analysis, risk assessment and structural analysis, with focus on the Grand Banks, offshore west Greenland, Caspian Sea, Labrador Sea and Barents Sea. He has been closely involved with both GBS and FPSO projects, providing sea ice and iceberg design loads, and assessing probability of iceberg impact.

---

## **ICETECH14-170: Claas Fischer, Dipl-Ing**

*Company:* Hamburg University of Technology, Germany Institute of Ship, Structural Design and Analysis

*Specialist:* Fatigue assessment of welded joints; Fatigue testing

*Career:* Since April 2010, research assistant and doctoral candidate at the institute

*Studies:* Mid 2015 Conferral of Doctorate (aimed)  
2003-2010: Study of naval architecture at Hamburg University of Technology

---

## **ICETECH14-175: Michel Lanteigne**

Michel Lanteigne, M.Eng., P.Eng., is a civil engineer with more than 30 years of professional experience on northern and international projects related to resource development and municipal and transportation infrastructure.

Michel's experience includes project management in northern Canada and in West Africa for oil and gas exploration and development, offshore and coastal structures, bridges, runways, and municipal developments.

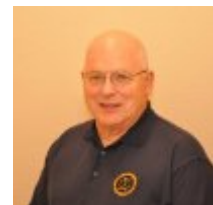
Michel lives in Yellowknife, where he is the manager of AECOM Canada for the Northwest Territories.

---

## **ICETECH14-176: Peter Noble**

**SNAME President: January 2013 – Present.**

Peter has taken on the responsibilities of President of SNAME for a 2-year term. This is a volunteer position, and Peter says he expects to “spend significant time working with other volunteers and HQ Staff in improving our Society for all its members globally”.



**Noble Associates LLC, Offshore, Maritime and Arctic Technology Advisors, President and Principal Advisor: January 2013 – Present**

After retiring from his position at ConocoPhillips, Peter will be working on selected projects where he believes his offshore, maritime and arctic technology expertise can add value.

For over 45 years, Peter has worked internationally as a Naval Architect and Ocean Engineer. His career has included positions in design and construction of ships and ocean systems, research and development, and in classification.

A continuing focus of his professional work has been related to innovation and technology development and he has published widely on a range of maritime and offshore technology topics. Peter is a Fellow and Honorary Vice President of SNAME and serves actively on a number of the Society's Committees and Panels. In 1993, he was awarded the SNAME Centennial Medal and in 2006 SNAME honored him by awarding the Admiral Jerry Land Medal for “contributions to the marine industry”. In 2009 he was recognized by the Offshore Technology Conference, OTC, with the prestigious Distinguished Achievement Award for Individuals, based on his work in two fields, LNG and Arctic Engineering and for his continuing contributions to young professionals.

---