

the Bridge

NEWS FROM THE MARINE INSTITUTE

DND Ignites SERT Centre!

The Marine Institute's Safety and Emergency Response Training (SERT) Centre is known as one of the premiere fire training facilities in Canada with the capability and equipment to provide world class training. It is now being put to use to train Canada's Department of National Defense (DND) personnel.

On September 17, the SERT Centre welcomed the first group of trainees. Twenty young men and women from all over Canada converged on the centre to complete a 30-week program consisting of the Marine Institute's basic firefighting modules with the addition of the Aircraft Rescue and Firefighting (ARFF) program. This program was customized to meet the needs of the DND.

"The Marine Institute is very happy to welcome the Department of National Defense's firefighter trainees to its facility in Stephenville," said Bob Rutherford, director, Offshore Safety and Survival Centre. "The enthusiasm and dedication of its manager Craig Harnum, faculty and staff and the support of the community have made the SERT Centre one of the best firefighter training schools in Canada. We look forward to working with the DND to further develop the capability of the Centre to provide world class firefighting and emergency response training."

This firefighting training will have a significant impact on the Town of Stephenville through the stimulation of investment and the creation of

jobs. Spin-off activities will be felt in a number of areas such as construction, transportation, food service, business service, and tourism. This initiative will also enhance competitiveness of specialized training in non-military institutions, which could result in long-term contracts with DND and a possible need for additional training offered by the province.

The initiative has created approximately five full-time positions at the SERT Centre, including three program instructors and two technical assistants positions.

"The Centre has been nothing but fabulous," said Lance Gillard, firefighter with the Air Force and DND student. "The equipment is top-notch and everyone here has been going out of their way for us. It is also noteworthy to mention that the instruction we are getting is world-class. All the instructors are awesome and the knowledge and real life experience they are bringing to the program is invaluable."

The Centre expects to train 60 DND firefighting trainees during 2007-08.

Support for this initiative was provided by the Atlantic Canada Opportunities Agency and the Department of Innovation, Trade and Rural Development.



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EXECUTIVE DIRECTOR'S MESSAGE

Exceptional people – faculty, staff, supporters and especially our students and graduates – have made the Marine Institute what it is today, and are the foundation that creates and sustains the quality of our programs in teaching and applied research and development. One of our key priorities is to recruit and retain a group of remarkably talented students, faculty and staff and to support them in ways that allows us to reach our highest potential.

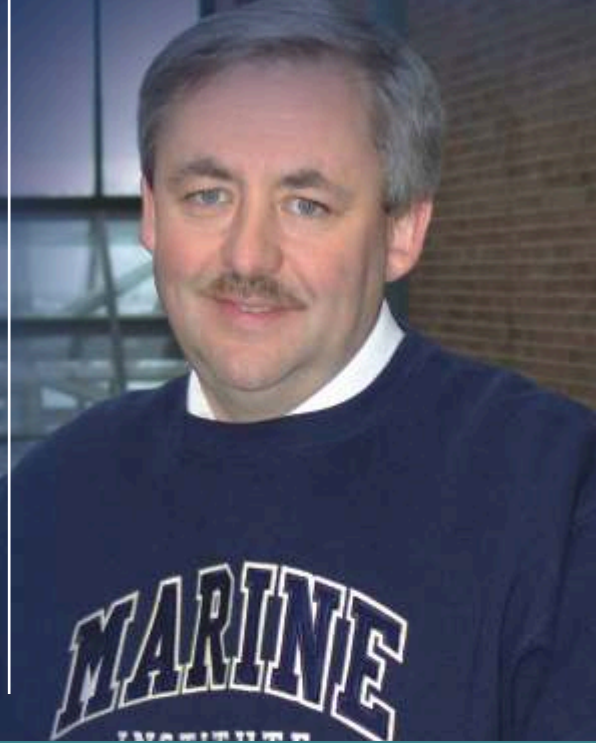
Due to the changing demographics of our province, especially those of rural communities, we expect that student recruitment and retention will become increasingly competitive and that our students will continue to come from more diverse backgrounds and regions. The out-migration of our young people to places such as Northern Alberta is also becoming a major issue for all post-secondary institutions and especially for the marine industries. However, I firmly believe that opportunities in the marine sector exceed the opportunities that exist elsewhere. The province has identified a large number of major projects and they will require a considerable number of MI graduates in all areas, especially in the marine transportation, oil and gas and aquaculture sectors.

We are at a stage now where the marine potential is enormous and the Marine Institute will play a major role in unlocking this potential.

One of the institute's greatest strengths lies in the powerful sense of ownership that people feel towards MI. This is what will carry us forward as we continue to face the challenges that lie ahead. We have a growth agenda and we need to build additional expertise and facilities to support our growth. We will continue to grow in the face of fiscal and human resource realities and continue to set the standard for education, training, innovation and research in the ocean sector.

The economic prosperity of our province, as it has in the past, will come from the ocean. The ocean regulates our climate, is our means of local and global transportation, it provides our food, our fishery and our oil and gas. For Newfoundland and Labrador it is the source of our wealth. It is our past and I believe it is our future!


 Glenn Blackwood, Executive Director



MESSAGE FROM THE EDITOR

Contact Us!

The Bridge is published twice a year by the Fisheries and Marine Institute of Memorial University. We welcome submissions, story ideas, photographs, letters, and, of course, your comments.

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Welcome to the winter 2008 edition of *The Bridge* and my first issue as editor! I joined MI in May 2007 and I already feel like a member of the MI family. The friendly faces I meet in the hallways, the students rushing to their next class and the office doors that are always open make this place an exciting and enjoyable place to work.

I have discovered that MI truly is a world class oceans institute and that our facilities, capabilities, and expertise are setting the standard for education, training, innovation and research. This issue of *The Bridge* is filled with stories about how we are putting these facilities, capabilities and expertise to use not only here in our province but all over the world.

This issue also highlights the success of our graduates. Our graduates, along with our students and industry clients, continue to be the driving force behind everything we do and we take great pride in celebrating their success.

I hope you enjoy this issue of *The Bridge* and I look forward to learning more about the institute myself and also to spreading the good word about who we

are and what we do. This is a place full of activity, promise and pride and I look forward to showcasing the Marine Institute to you!





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Marine Institute announces Head of School of Ocean Technology

Dwight Howse has been appointed as head of the Marine Institute's new School of Ocean Technology. The appointment was announced on November 2 by MI's executive director Mr. Glenn Blackwood.

"The ocean technology sector is seen as a growth sector in the province and the support that we've had from the provincial government to create the school has been incredible," said Mr. Blackwood. "We are extremely pleased to welcome Mr. Howse to this position as he has extensive knowledge and understanding of the ocean technology sector and its emerging technological applications. We see him as the leader who will move this school forward to the next plateau of excellence in teaching, research and innovation."

As head, Mr. Howse will lead the development of the school and its education and applied research programs. He will direct strategic initiatives within the overall mandate of the Marine Institute and maintain close relationships with industrial and regulatory partners to ensure continuing relevance of programs and applied research activities to local, national and international needs and standards.

A Memorial University engineering graduate, Mr. Howse has worked at the Marine Institute in various capacities including teaching, serving as deputy head of the School of Engineering Technology, and coordinating industrial response. During a secondment from the Marine Institute to CCMC, he worked with ocean technology companies across Canada as a senior engineer, director of the SeaComm program, and director of the SmartShip™ program. Upon returning to the Marine Institute, he led the development and delivery of a suite of courses for personnel on the Sea Rose FPSO.

In his off hours, Mr. Howse is proud to be a mentor with the Eastern Edge Robotics team who have consistently distinguished themselves in the MATE international ROV competition.



As he takes the reins, Dwight Howse looks forward to implementing research and educational programs like MI's new Remotely Operated Vehicle Certificate.

Mr. Howse sees this appointment as a challenge and a great opportunity. "A significant ocean technology cluster has grown in the province over the past decade or so," he said. "The School of Ocean Technology will fill a niche in that community and contribute to its continued growth through the education and training of highly qualified people with the specific skill sets required by ocean technology companies. Further, the school will provide an avenue for companies to access the ocean technology capacity and capability within the Marine Institute."

The School of Ocean Technology was established in May 2007 with a \$1 million investment from the government of Newfoundland and Labrador. The school will focus on technologies that enable safe, efficient, and effective activity in ocean industries. This includes ocean instrumentation and equipment, marine information and communication technologies, ocean mapping and underwater technology. The school will also provide education and training as well as industrial outreach for the ocean technology sector.

International ROV Competition a success!

The 2007 MATE International Remotely Operated Vehicle (ROV) competition organized by the MATE Center and hosted by the Marine Institute and the National Research Council's Institute for Ocean Technology (IOT) was a splashing success! The event was held June 22-24. Each of the 41 competing teams, representing Canada, the U.S., Spain, Scotland, Iran and Hong Kong, put a tremendous amount of time, energy, and effort into their vehicles, technical reports, poster displays, and engineering presentations. Two teams from Newfoundland and Labrador, Heritage Collegiate from Lethbridge and Eastern Edge Robotics from St. John's, placed second overall in the Ranger and Explorer classes. The Eastern Edge Robotics team from the Marine Institute, Memorial University and College of the North Atlantic, also won for Best Poster and team member, Justin Higdon, was named Engineering MVP. Carbonear Collegiate took home the Sharkpedo Award for most innovative tool.

NEW BLUE MUSSEL SEED SITES STUDIED

Mussel growers in this province are making it their priority to ensure a consistent supply of good quality mussel seed is readily available. It's in response to an anticipated mussel supply shortfall from Europe, potentially creating a demand for blue mussels from this province.

Recently the Newfoundland Aquaculture Industry Association (NAIA) asked MI's Centre for Aquaculture and Seafood Development (CASD) to undertake a four-year study to evaluate new mussel seed procurement sites in Newfoundland and Labrador. The goal is to correlate the new sites with physical, environmental and biological conditions found in successful, productive areas.

"Mussels are an excellent food source," said Darrell Green, research and development co-ordinator with NAIA. "We are seeing an increased worldwide demand and the supply is not really keeping up with that demand. We expect this research study will help us cultivate a consistent supply of good quality mussel seed for our local industry. This will allow market diversification, farm expansion, and significant economic growth in the coming years."

CASD is evaluating seed collection at a number of potential mussel seed sites in partnership with Fisheries and Oceans Canada (DFO), the provincial Department of Fisheries and Aquaculture (DFA) and Memorial University.

Placentia Bay is the first site to be studied. Researchers are looking at abundance, growth and genetic characteristics of seed as well as a number of physical, environmental and biological parameters. "Basically when mussels spawn, the seeds, known as spats, are free floating" said Tom Brown, associate director, CASD. "These spats attach themselves to collector ropes and the samples from these collectors are what we are gathering and analyzing."

Along with the continuing work in Placentia Bay, other potential sites in Bonavista Bay are being considered when the study shifts to that area of the province for year two.

The project is getting funding support from a number of collaborators including DFO's Aquaculture Collaborative Research and Development Program (ACRDP), the National Research Council Industry Research Assistance Program (NRC-IRAP), the Canadian Centre for Fisheries Innovation (CCFI), and contributions from DFA and Memorial's Ocean Sciences Centre, Department of Biology and the Marine Institute.

"As an industry we are hoping to double our output over next five years," said Green. We are looking at going from 3200 tonnes in 2006 to 6500 tonnes by 2011. The Marine Institute and CASD in particular, have been essential for us in being able to deliver this research initiative. It is one, if not our most important collaborators."



Chris Dawe,
Aquaculture Technician

E-simulator Coming for Vessel Stability

The Provincial Government has provided \$51,000 to the Marine Institute to advance the concept of an e-simulator to train fish harvesters in fishing vessel stability. Better training in vessel stability can save lives and reduce the loss of fishing vessels at sea. The e-simulator will provide easy access for skippers and crew alike to train in their own homes using an ordinary computer.

The concept for an e-simulator for fishing vessel safety was proposed to the Marine Institute and the Provincial Government by the Canadian Council of Professional Fish Harvesters and will involve using multimedia and computer game features, combined with instructional segments on fishing vessel stability. The visually interactive aspects of the e-simulator will also be used in conjunction with a workbook.

"Fishing at sea is one of the world's most dangerous occupations and vessel instability is one of the chief causes of death," said the Honourable Tom Rideout, minister of Fisheries and Aquaculture. "As a sea-faring people, Newfoundlanders and Labradorians have always relied on experience and the feel of the boat to

determine if a vessel was stable. However, as vessel designs have changed over time and harvesters go further from shore, we can no longer rely on these indicators."

The goal of the e-simulator is to provide a good understanding of the basic stability concepts and prepare participants for further training. "Simulation is a very unique tool for helping fishers understand the complex concepts underlying the issue of vessel stability," said Glenn Blackwood, executive director of the Marine Institute. "The Marine Institute has many years of experience in fisheries, world class simulation facilities and training. We are looking forward to participating in this very worthwhile project with the support of the province and the Canadian Council of Professional Fish Harvesters."

The current plan for the use of the e-simulator involves the development of a six module program for training on vessel safety. These modules will be developed with the help of Memorial University's Distance Education and Learning Technologies. Those who complete the highest level modules will be very proficient in vessel stability.

EU Exchange Offers New Experiences

by Maria Halfyard

MI students will be travelling to Europe soon thanks to two student mobility exchange programs. The Canada-European Union Programme for Co-operation in Higher Education, Training and Youth awarded funding to the School of Fisheries and the School of Maritime Studies this September to establish stronger ties between Canadian and European post-secondary institutions.

The Food Link project from the School of Fisheries will promote international linkages in the area of food technology, food safety, and international food trade. Its partners include the Cork Institute of Technology (Ireland), the University of Nottingham (UK), the University of Copenhagen (Denmark), and two other Canadian institutes, Dalhousie University and the British Columbia Institute of Technology.

The School of Maritime Studies has partnered with European institutes in France, the Netherlands and Ireland for its exchange program and has brought together Canadian institutions in British Columbia and Quebec.

Their program, entitled, Marine Crew and Passenger Safety and Security (M-CAPSS) will focus on the development of STCW'95 compliant common courses in Safety, Security, and Crowd and Crisis Management. The Cork Institute of Technology (National Maritime College of Ireland), Willem Barentsz Maritime Institute (Netherlands) and the Nationale de La Marine Marchande de Nantes (France) will participate along with the British Columbia Institute

of Technology's Pacific Marine Training Campus and the Institut Maritime du Quebec.

The Canadian institutions will send a total of 60 students abroad to study in their related field. In return, 60 students from the corresponding EU countries will study in one of the partner institutions in Canada. The projects will commence October 2007 and end September 2010, with the first student exchange occurring in the fall 2008 semester. Students accepted into the programs will have the opportunity to experience a different culture, obtain a richer knowledge of a country's history, and acquire world-class education in their respective fields of study.

MI student, Tara Hart who traveled through the Marine Institute's CIMET (Centre for International Maritime Education and Training) exchange program touts her experience as "once in a lifetime opportunity". "The exchange to Terschelling offered me a chance to not only receive world class training in state of the art facilities, but also to gain international exposure and immerse myself in a new culture with all new people," said Hart. "The people involved in

this exchange were amazing. Everything was arranged in great detail and all aspects of our stay and travel were well covered. The captains, instructors, and everyone involved in our training at Willem Barentsz were very welcoming, friendly, and eager to teach and share their experiences with us. I believe my participation and experience with the CIMET exchange has further prepared me for a successful career at sea."



Look Who's Coming to Camp!

They say good news travels fast and far! This certainly is the case for MI's Marine Pursuits summer camps. These camps have enjoyed great success since they were introduced in 2002 with over 350 high school students getting the opportunity to explore marine careers through hands-on learning. Now, students from across the country and the United States are inquiring about the Marine Institute and all it has to offer.

"We've gotten inquiries from New Hampshire and Massachusetts about the camps this year," said Renée

Bonia, camp co-ordinator. "The camps have been so successful in the province and it's exciting to know that they are generating interest across the country and even into the United States."

And why wouldn't they attract interest. Participants in previous Marine Pursuits camps have sailed on Marine Institute training vessels, seen the world's largest flume tank, designed their own cardboard boats, surveyed the marine life of a beach, witnessed helicopter emergency evacuation manoeuvres, dissected a fish, made their own caviar, and navigated a ship in a full

mission bridge simulator.

"Most high school students do not realize the wide range of marine careers available to them or how rewarding they can be," said Bonia. "These camps have opened up those possibilities for them and some of our participants are now attending the Marine Institute to prepare for their marine careers."

These camps are offered in partnership with the Department of Human Resources, Labour and Employment.



MI CENTRE OFFERS NUTRITIONAL LABELLING SERVICE

Small food manufacturers are looking to the Marine Institute's Centre for Aquaculture and Seafood Development (CASD) for nutritional labelling services.

On January 1, 2003, Health Canada published amendments to the Food and Drug Regulations regarding nutritional labelling, nutrient content claims and diet-related health claims. This new nutrition labelling regulations have been designed to provide a system for conveying information about the nutrient content of food in a standardized format, which allows for comparison among foods at the point of purchase. Clear, uniform information should support consumers in making informed food choices toward healthy eating goals. Small food manufacturers had until December 12, 2007 to comply with the new regulations.

In response to this, CASD is now offering three options for determining the nutrient data required to complete the standard Canadian and U.S. nutrition facts panel; full laboratory analysis, calculated nutritional analysis and combined laboratory and calculated analysis.

To do this, CASD purchased special software, Genesis SQL. This federally recognized software enables them to do an automatic nutrient analysis using only the ingredient list. From this analysis, a nutritional label can be issued for that product. These labels can be custom designed in a variety of sizes and types, including U.S., Canadian and Canadian Bilingual, aggregate, shortened, and simplified. Labels are camera-ready and can be easily printed or exported.

Nutrition Facts	
Serving Size (137 g)	
Servings Per Container	
Amount	% Daily Value
Calories 160	
Fat 9 g	14 %
Saturated 3.5 g	18 %
+ Trans 0 g	
Cholesterol 0 mg	0 %
Sodium 45 mg	2 %
Carbohydrate 21 g	7 %
Fibre 3 g	12 %
Sugars 15 g	
Protein 3 g	
Vitamin A	4 %
Vitamin C	10 %
Calcium	2 %
Iron	4 %

"Each year we receive numerous requests from small to medium sized food manufacturers to assist them with their nutrition labelling requirements for new and existing products," said Heather Manuel, director, CASD. "In the past we provided guidance on the nutrition labelling requirements and performed some analytical services. However, what our clients really need is someone to prepare the nutrition facts panel in a ready-label format that they can provide to their label designer. In order to meet this need we have added this capability to our suite of services."

Approximately 13 clients have availed of this service since September, ranging from general inquiries, to full nutritional labelling services.

Exploring China

In September, Dr. Peter Fisher, head of MI's Department of Degree Studies and Research (DDSR), travelled to China to take part in graduation and school-year opening ceremonies at two of MI's partner institutions, Jilin University-Lambton College and Jiangnan University. The Marine Institute led the development of a relationship with Jilin University, the largest University in China, in response to provincial government and Memorial University's mandate to increase the number of international students in the Province. This relationship provides students of Jilin University-Lambton College with the opportunity to partake in MI-MUN's bachelor of technology program.

Through this partnership, students in China complete the first three years of their program in China and their final year in St. John's. In August 2002, 35 Chinese students enrolled in the Bachelor of Technology program at the St. John's campus. To date, there have been 154 program graduates who completed the requirements in China and 71 program graduates who completed the program in Newfoundland. This is the first arrangement of its kind between a Canadian University and a Chinese partner.

While at Jiangnan University, Dr. Fisher also met with representatives from the food

science and technology faculty to discuss broadening the partnership. "This is a large university. The faculty has eight classes of 35 students each completing the food technology program every year and they are interested in a new model that would have Chinese students completing two years at Jiangnan University before completing the final two years of a degree program at MI and MUN," said Dr. Fisher

"We are looking forward to working with them. In fact, Ed Durnford and Heather Manuel travelled there in November for a conference and to talk about ways we can partner on this program."

While in China, Dr. Fisher, together with Dr. Campbell, Memorial University acting president, also met with representatives of Dalian Maritime University to explore a possible partnership.

"Dalian is a large university that offers programs in nautical science and marine engineering as well as other ocean-related engineering technology programs and they are very interested in signing an MOU. I'm looking forward to working with them to set up some new programs," said Dr. Fisher.

Dr. Peter Fisher, Dr. Axel Meisen, Dr. Eddy Campbell visit Dalian University in China.



MI in the NEWS



Marine Institute students receive over \$81,000 in scholarships

Students of the Fisheries and Marine Institute were awarded for their academic excellence and leadership skills at the annual Fall Scholarship Presentation held on Wednesday, November 21. Thanks to the generosity of local and national businesses, organizations and individuals, 63 students enrolled at the institute received scholarships valued at over \$81,000. This year, the scholarship program expanded once again and the newly added scholarships include the Andrew Baker Memorial Scholarship, Fry Family Foundation Leadership Scholarships, Gerald Pye Memorial Scholarships and the Nautical Science Society Scholarship. The Honourable Joan Burke, minister of Education, was on hand to address the award-winning students and present the Provincial Government's Centenary Scholarships. Also addressing the students were Dr. Eddy Campbell, acting president, Memorial University and Ms. Iris Petten, Marine Institute's Advisory Committee. In total, 77 scholarships were awarded.

Students and Staff Excel at Firefit Competition

The Marine Institute definitely had some of the fittest, fastest and strongest firefighters competing at the 2007 Canadian Firefit Championships.

The Safety and Emergency Response Training (SERT) Centre's own Craig Harnum had an impressive showing taking gold in the Chiefs' Race and silver in the over 40 category. He also won silver in the fire chiefs division at the Nationals, held in Halifax from August 30 to September 2.

The regional competition, hosted by the SERT Centre in Stephenville on July 21, saw the MI student team take first place in the student category, second place in the relay and third place overall. The team was comprised of Matt Horwood, Mike Shannahan, Mark Poole, Sean Matchett and Mark Vincent.



Congratulations to everyone for your remarkable effort!

MI lends expertise to Ocean Innovation Conference

Educators, researchers and manufacturers from the marine simulation industry, including the Marine Institute, gathered in Halifax for the fifth annual Ocean Innovation Conference and Exhibition, October 21-24, 2007.

Sponsored by the Canadian Centre for Marine Communications (CCMC), the event provided a unique opportunity for industry, government and academic representatives to develop new business, network within a captive audience and promote the merits of Canadian ocean technologies to the world.

The theme of this year's conference was The Rise of Maritime Simulation and Carl Harris from the Centre for Marine Simulation (CMS) spoke on the topic. He presented "The Art and Science of Naval Architecture in the CMS Virtual Shipyard." The paper provided a perspective on the role of a naval architect within a virtual shipyard and highlighted some of the challenges faced by CMS and how they solve them.

Also in attendance from MI was executive director, Glenn Blackwood; Bob Mercer, School of Maritime Studies; Captain Christopher Hearn, director, CMS; Chris Connolly, CMS; and Dwight Howse, head, School of Ocean Technology.

MI was a silver sponsor of the event and co-hosted the opening reception.





MI Welcomes Back Spencer Barnes!

After a six month deployment in Afghanistan, MI is proud to welcome back Mr. Spencer Barnes to home soil. Spencer is a Computer Support Specialist with the department of Computer Services & Learning Technologies.

One of 20 members of the Royal Newfoundland Regiment deployed in February 2007, Spencer was part of Task force 107 Headquarters where he served as Task Force Training Officer.

Prior to his deployment, he trained in Aldershot, Nova Scotia and Gagetown, New Brunswick to complete his pre-deployment training.

The Marine Institute is proud to support employees like Spencer Barnes who are involved with the Canadian Forces Reserves.



Fry Family Foundation Scholarships Announced

The scholarship program at MI has expanded as the Fry Family Foundation announced new entrance scholarships for the institute.

Valued at \$100,000 over five years, the Fry Family Scholarships will benefit Bachelor of Technology, Bachelor of Maritime Studies and Diploma of Technology students from Newfoundland and Labrador who demonstrate leadership abilities, academic success and ambition.

"The Fry Family Foundation is honoured to partner with the Marine Institute to provide these scholarships," said Frank Fry, executive director of the foundation. "We believe that fostering leadership in our students is the first step in creating a skilled, highly educated workforce and the Marine Institute is an excellent example of how we are doing that for the ocean industries."

Glenn Blackwood, executive director of the Marine Institute, is very pleased with the new scholarships. "Among the many donors who recognize the critical need to provide student support, the Fry Family Foundation continues to be a leader, supporting both scholarships and student leadership at the Marine Institute and in the province," he said.

The first scholarships were awarded to 10 diploma students and two degree students at the institute's Autumn Presentation of Scholarships and Awards held on November 21.

Fry Family Foundation Bachelor of Technology/Maritime Studies Leadership Scholarships: Sheldon Anstey, Courtney Smith

Fry Family Foundation Diploma of Technology Leadership Scholarships: Samantha Banton, Wesley Brazil, Kayla Costello, Matthew L. Dawe, Matthew Feltmate, Robert Hynes, Kristina Kean

Employers Preparing for MI's Career Fair 2008

Employers from across the country are coming next month to the Marine Institute's Career Fair where they will recruit MI's students and alumni as their future employees.

This year's fair will take place February 6-7, 2008 at the Marine Institute. February 6 will feature presentations from employers and MI alumni who are leaders in their respective fields. The following day, employers will interact at their display booths with students and graduates from Marine Institute's wide range of certificate, diploma, advanced diploma and degree programs.

For students, the annual career fair is an opportunity to showcase themselves to potential employers, learn about industry trends and begin charting their careers.

The fair is co-ordinated by the Marine Institute's Placement Office. "We expect this year's fair to be one of our largest yet, based on the inquiries we've received so far," says Darlene Foote, co-chair for the Career Fair. "The interest we have had is another signal to us that our employer partners, across the marine transportation, food and environmental industries, are facing a critical human resource shortage."

MI alumni are invited to meet with employers at the Career Fair to discuss upcoming positions and employment requirements.

For more information about the Career Fair, please visit www.mi.mun.ca/placement/careerfair.htm



OSSC Employees Recognized

Two employees of MI's Offshore and Safety Survival Centre (OSSC) were recognized at the Provincial Firefighter convention, held in Corner Brook on June 29, 2007.

Debbie Rideout was posthumously awarded the John N. Cardoullis Award of Merit for her contribution to firefighting in the province. Debbie, who unfortunately passed away in 2005, had many accomplishments. She was instrumental in implementing MI's successful Camp Glow program and she contributed greatly to providing awareness of firefighter training. In November 2002, in conjunction with the Newfoundland and Labrador Association of Fire Chiefs and Firefighters and the Office of the Fire Commissioner, Debbie authored and illustrated a fire prevention colouring book. To date, over 20,000 copies of the book have been distributed province wide.

Greg Lawlor was awarded the Allan W. Goulding Memorial Medal for Bravery for his part in the rescue of two young people who fell through the ice at Lawrence Pond, NL. Upon his arrival at the scene, Greg entered the water and swam to the victims and dragged them to the safety of his awaiting colleagues.





The Marine Institute is proud to profile the tremendous success stories of our graduates. Some are well established in careers as captains, plant managers, quality inspectors, marine engineers, etc. Others have gone back to school to obtain their degrees. Some continue to live in the province and contribute to our growth while others have gone to the mainland, the United States or overseas.

Here's a small sample of MI graduates and future graduates who are making significant achievements in their professional field.

Engineering the Perfect Career

When marine engineering student James Hayes was growing up in Halifax, little did he know that a summer job with a local tourism company would lead him to a career on the water. But today, James is currently completing his third year of the marine engineering program and is well on his way to an exciting career in the marine transportation industry.

“When I graduated from high school, I originally thought that a career in business was for me,” said James. “After I completed a couple of terms at St. Francis Xavier, I quickly realized that I needed a change.”

That’s when James decided to take a summer job with a local tour boat operator in Halifax. “I started driving the tour boat and realized that I really enjoyed being on the water. That got me thinking about possible career opportunities. I spoke with some people in the industry and they highly recommended the Marine Institute.”

After doing some research on MI’s programs, James eventually chose to enroll in marine engineering. “I loved

the idea of working with my hands, repairing and maintaining the ships systems so I decided that marine engineering would be a great choice for me. The fact that the job prospects look amazing was also an added bonus for me.”

James loves the diversity associated with a career as a marine engineer. “I love the fact that I can choose to live at home but work anywhere in the world as most employers will fly you to the job site. I also like that I can choose to work at sea or on land.”

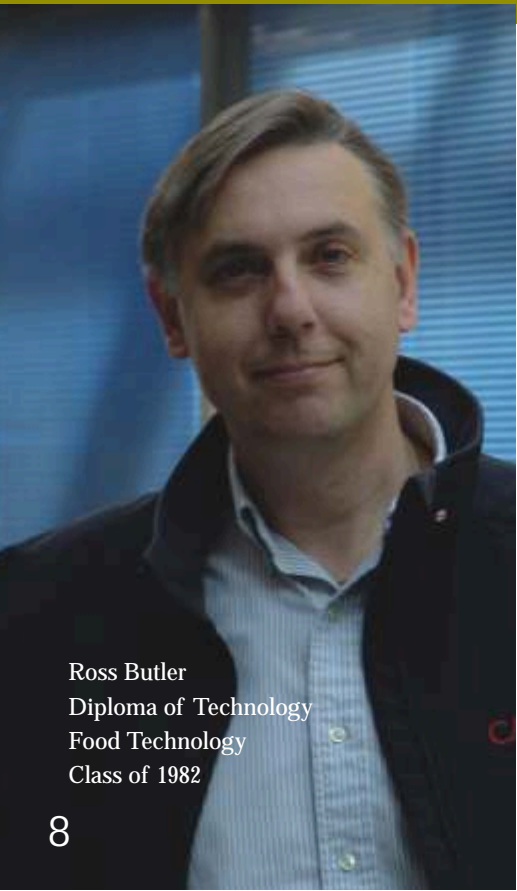
His first at sea work experience came when he completed his work-term with Canship Uglund. James says working in the field confirmed his decision to attend MI was the right one. “The opportunities are endless. I definitely plan to go to sea and eventually get my Chief Engineer ticket. Once I get this, the sky’s the limit.”

Keep your eyes peeled for James as he is sure to become part of the ever-growing group of successful MI alumni!

James Hayes
Diploma of Technology
Marine Engineering
Class of 2009

ALUMNI SUCCESS

ALUMNI SUCCESS



Part of a “Growing” Business

Food technology draws on the spectrum of biological and physical sciences, applies them to one of the essentials of life – food, and prepares students for a career in one of the world’s largest and most stable industries. After all, everybody has to eat! Ross Butler had the foresight to recognize this and, as a food technology graduate from MI, has experienced a very rewarding career in the industry.

“Coming from the small fishing village of Red Harbour on the Burin Peninsula, I grew up in a fishing boat, said Ross. “When I graduated from high school it only seemed natural that I’d look to the marine industries for a career. I chose to enrol in the food technology program at the then College of Fisheries, of course now known as the Marine Institute.”

Throughout his studies at MI, Ross worked within the seafood processing industry with Fishery Products Limited. “They hired me on as a summer student in their quality assurance department and prior to graduation, they offered me a full-time job as supervisor of that department.”

Mr. Butler enjoyed a 20-year career with Fishery Products International where he rose to the position of vice

president, Atlantic Operations before departing in 2002. He was recently appointed to the position of vice president, Operations for Newfoundland and Labrador for Cooke Aquaculture.

“This appointment was a natural decision for us,” explains Glenn Cooke, CEO of Cooke Aquaculture. “Ross’ deep roots both in the province and in its seafood sector have been invaluable to our company’s recent investment in Newfoundland. We already have a solid saltwater team on the province’s south coast and an experienced employee base from our acquisition of Nordland last December. Ross will oversee the expansion of these operations to establish a processing plant and a hatchery as well as the necessary infrastructure to support these operations.”

As Ross takes this next exciting step in his career, he is reminded of some very good advice given to him by one of his instructors at MI – always be mobile and never stop learning. “I’m a strong supporter of furthering your education through short courses, diplomas, degrees; basically whatever you can get your hands on. I believe that MI is a great place to do this. It continues to be a very credible, very respected training institute that people should want to come to.”

Ross Butler
Diploma of Technology
Food Technology
Class of 1982

Have Your Cake and Inspect It too!

When in doubt throw it out! That's good food safety advice from Cherie King. Cherie is a multi-commodity inspector with the Canadian Food Inspection Agency (CFIA) and a recent graduate of the Marine Institute's Food Safety program.

While completing her biology degree at Memorial University, Cherie heard about the program and thought it sounded interesting. "Someone from MI came into our class and did a presentation on all the advanced diploma programs," she said. "I had an interest in both food safety and aquaculture but decided that food safety would be a better choice for me. The job prospects looked great and I had heard some excellent feedback from people who had already completed the program."

Cherie's choice turned out to be an excellent one as she was able to obtain a full-time, permanent position with the CFIA shortly after graduation. Her main role is in the food safety investigation program where she deals largely with consumer complaints, food recalls, sampling, monitoring and compliance. She also conducts regular audits of registered facilities that process fruits and vegetables.

While Cherie admits the work can be challenging, she says she loves it and cannot picture herself doing anything else. "Anyone can have a desk job, but the variety that this job affords me is what makes it so interesting. Every day is different and I really enjoy that aspect."

She also believes that there are great opportunities for

advancement in the industry. "New and emerging issues in the food safety industry have created an ever increasing demand for qualified food safety professionals. These opportunities increase if you have higher qualifications like the advanced diploma. In fact, without giving it a lot of thought, I can think of 19 or 20 CFIA inspectors in the province that graduated from MI's food safety program."

Opportunity has already come knocking for Cherie. This past summer she was asked to assume the position of acting atlantic area recall co-ordinator (ARC). "In this role I was the key communication link between area operations staff and the Office of Food Recall and Emergency Response. I was responsible for coordinating and monitoring investigations and then implementing and verifying a recall if necessary."

She feels this experience was invaluable. "I got the opportunity to work with regional directors, inspection managers, program network staff, supervisors, other ARCs, provincial personnel and inspectors on recalls and emerging issues to ensure the necessary information is collected and communicated to the appropriate components in a timely manner. This is probably the greatest accomplishment of my career to date and I am very proud to have been able to do it."

What's next for Cherie? "Right now the agency has lot of people who will be ready to retire within the next five years so there is some succession planning going on. This will open a lot of doors for managerial positions and I'll be ready for one of those positions."



Cherie King
Advanced Diploma
Food Safety
Class of 2003

ALUMNI SUCCESS

ALUMNI SUCCESS

Tanya Bowen and Derrick Lockyer recently became part of very elite group of MI alumni. They were the first graduates of the post-graduate Certificate in Quality Management. Tanya is a multi-program inspector with the Canadian Food Inspection Agency (CFIA) and Derrick is a case management officer, Compliance & Enforcement Division with the Department of Fisheries and Aquaculture (DFA) in St. John's.

Angeline Snow, Marine Environmental Technology graduate (07), is currently working for T. Harris Environmental Management Inc. in Ottawa, Ontario, as an environmental occupational health and safety technologist.

Shaun Lynch graduated in 2003 with a diploma in Marine Engineering Technology. He currently holds a 2nd Class Motor Certificate of Competency. Shaun currently works on the M.V. Atlantic Kingfisher as 3rd Engineer and the ship is now working in Trinidad and Tobago.



Derrick Lockyer and Tanya Bowen
MI Graduation 2007

New Faces...New Places

MI is extremely proud of the outstanding people it employs. The expertise and leadership they bring is an integral part of the institute's success. In honour of that, *The Bridge* is pleased to profile some of MI's newest employees. Stay tuned for more profiles in future issues!



New Face:
Captain Christopher Hearn
Director, CMS

The Marine Institute is pleased to announce the appointment of Captain Christopher Hearn as director of the Centre for Marine Simulation. Captain Hearn has served as a master mariner on vessels engaged in a variety of operations including offshore construction and subsea cable laying. As a marine superintendent with Canadian and foreign national companies, he assumed a number of duties in the administration of vessel management, crewing, marine security, dry-docking and internal audits. Most recently, he provided consultancy and ISM auditing services to the local marine sector.



New Face: Chris Batten
Instrumental Technologist, CSAR

Chris Batten has been appointed to the position of instrumentation technologist with the Centre for Sustainable Aquatic Resources. Chris holds a three-year diploma in Electronics Engineering Technology (Computers & IT) from the College of the North Atlantic. He comes to MI with solid experience from Memorial University's Technical Services Department and C-Core.

MI welcomes Darryl Haynes to the position of manager of Catering and Conference Services and Bookstore. He has extensive experience in food preparation, hotel/motel restaurant operations and has advanced training in food safety. He holds his third-year commercial cooking inter-provincial red seal. Darryl also holds a Post-Secondary Instructors Certificate and an Education Diploma from Memorial.



New Place:
Darryl Haynes, manager,
Catering and Conference Services

Leslie Nofall has been appointed to the Registrar's position. Leslie holds a B.Comm. and has been with MI for over 15 years in a variety of positions, including project accountant, planning analyst and departmental program co-ordinator.



New Place:
Leslie Nofall, Registrar,
Office of the Registrar

MI also welcomes:

Kris Connors, Finance, project accountant
Michelle Connors, Registration, clerk III
Richard Cormier, SERT, technical assistant
Charles Dyke, Finance, project accountant
Tom Gallant, SERT, instructor
Tim Harnett, SERT, technical assistant
Scott LeDrew, SMS, instructor
Janice Murphy, SERT, clerk III
Michael Slade, SERT, technical assistant
Cindy Walsh, Cafeteria, food service worker
Jie Xiong, CSEA, institutional analyst

MI Welcomes World-Renowned Fisheries Expert



Dr. Joseph DeAlteris

This fall the Marine Institute's Centre for Sustainable Aquatic Resources (CSAR) welcomed Dr. Joseph DeAlteris while he takes a sabbatical from his time as a professor of fisheries science with the University of Rhode Island (URI).

Dr. DeAlteris received his BA in 1968 from Rutgers University, and both his MA (1973) and PhD (1986) from the College of William & Mary. Since joining URI in 1983, he has published more than 30 scientific peer-reviewed articles and co-authored two books. He has an active research program and teaches undergraduate and graduate level courses in fishing gear selectivity, optimum harvesting strategies, and fish stock assessment.

Dr. Paul Winger, director of CSAR says that they were thrilled to have Dr. DeAlteris on board. "It is a delight and privilege for the Marine Institute and CSAR in particular, to host Dr. DeAlteris on sabbatical. There are few researchers with his breadth of experience, knowledge and publication record. We are working with Joe on a number of fishing gear technology initiatives during his time at the institute."

While at MI, Dr. DeAlteris conducted collaborative research with CSAR's fishing gear technologists on the hydrodynamic performance of various selectivity devices for bottom trawls, specifically on Turtle Excluded Devices (TEDs). "In Rhode Island we have a sea turtle by-catch in many of our fisheries so we installed TEDs. We've documented a 35 per cent loss of target species, which is a real problem," stated Dr. DeAlteris. "We are trying to determine why we are losing so much fish and the perfect place to test the hydrodynamics of the TED is in MI's flume tank."

Dr. DeAlteris also delivered a workshop on the quantitative methods of fish stock assessment. During the workshop, participants were introduced to mathematical modelling as it relates to fish populations.

This is not Dr. DeAlteris' first visit to the Marine Institute and he hopes it won't be his last. "I'm hoping to come back this spring and offer a gear technology workshop for fisheries biologists," he said. Why come back? "I love it here. Your facilities are incredible but most importantly, this place is unique in that you have a whole group of people dedicated to fish technology and fisheries engineering," added Dr. DeAlteris. "You not only have the equipment, you have the people and the expertise. That impresses me."

Irish Partnership Going Strong

by Maria Halfyard

For the fourth consecutive year, the Marine Institute has been invited to Ireland to deliver a professional development workshop on instructional design and online course development and facilitation.

Through its Division of Degree Studies and Research, MI has been engaged in the development of e-learning technologies with the Institute of Technology Tralee (ITT), a post-secondary college in the county of Kerry. With a range of programs ladder to postgraduate level, ITT attracts students from all over Ireland and Europe and is a major engine of economic and social development for the region.

The relationship with ITT stemmed from a 2004 initiative between MI and ITT called the Brandon project, named after the Irish navigator St. Brandon. This project, funded by the Irish Newfoundland Partnership, developed a sustainable link between the Marine Institute and the Institute of Technology Tralee to create an international collaborative Masters program in Learning and Educational Technology. The Learning Technologies group at the Marine Institute assisted in developing four modules for the program by way of instructional design, content development, and online facilitation. A fifth module is currently being developed.

The Brandon project was the impetus for further collaborations between the two institutes. Christine Molloy, instructional designer with MI, has been



Front L-R: Paul Collins, Dr. Carol O'Shea
Middle L-R: Eliz Brunton, Aoileann Nic Gearailt, Deidre Boyle, Corinne Breen
Back l-r: Dr. Joan Cleary, Cathryn Casey, Ann-Marie Courtney, Christine Molloy, Brenda O'Dwyer

working on the project since its inception. "The relationship between MI and ITT has been fairly easy to nurture, which cannot be said of all partnering ventures," she said. "I think the factors that have enabled this success include the timing of the initial meeting, a good fit of our products for their needs, and the mutual goals for future initiatives."

Today, the Marine Institute is working with ITT in areas related to post-graduate education, quality management, and the teaching and learning environment. In June 2007, ITT representatives travelled to the Marine Institute to tour its facilities and discuss the potential for future opportunities with MI and Memorial University. The partnership between MI and ITT was made official with assigning of new Memorandum of Understanding last fall.

Possible future opportunities include e-learning workshops with ITT's sister colleges in Ireland and the National Digital Learning Repository, an online resource bank for all Irish universities and technology institutes.

The Marine Institute is also looking to ITT for possible joint projects to develop a Master of Technology Management Program and a Master of Maritime Management Program. Discussions are also focused on a possible Memorandum of Understanding with respect to the Marine Institute's post-graduate certificate in Quality Management.

Partners Key to B.Tech Growth

When MI introduced its Bachelor of Technology in 1997, it was the first of its kind in Canada to offer diploma graduates in health science and applied science and engineering technology with access to a degree to continue their professional development.

College partnerships are critical to the success of the program. In just 10 years, 14 Canadian and international institutions have signed articulation agreements with MI to access the program.

The most recent partnerships came this fall with the Saskatchewan Institute of Applied Science and Technology (SIASST), and John Abbott College in Quebec. The program is also available internationally through the Institute of Technology in Tralee, Ireland and Jilin University-Lambton College, the largest university in China.

To date, 700 graduates have earned their degree and enrolment has averaged over 500 people per year.

Dr. Peter Fisher, MI's head for the Division of Degree Studies and Research, leads the program. "We've always been interested in establishing articulation agreements with other institutions and we are really pleased to secure such strong partners that believe in providing lifelong learning and progressive certification opportunities through MI for their graduates," said Dr. Fisher. For more information visit www.mi.mun.ca/programs



MI
MARINE INSTITUTE

Send us your alumni update for the next issue of the Bridge and you could WIN a Marine Institute sweatshirt!

SEND US YOUR ALUMNI UPDATE. YOU COULD BE THE NEXT WINNER!

What's Happening with Marine Institute Alumni?

Send us your news. Information provided on this form will be used in the alumni section of The Bridge and will help maintain accurate home and business address records.

Name: _____

Employer: _____

Year of graduation and degree/diploma/certificate(s) granted: _____

WORK ADDRESS: _____

HOME ADDRESS: _____

Mailing Address _____

Mailing Address _____

City/Town _____

City/Town _____

Province/State _____ Country _____

Province/State _____ Country _____

Postal Code _____ Phone _____ Fax _____

Postal Code _____ Phone _____ Fax _____

E-mail Address _____

News about yourself you would like to share with us: _____



MI researchers work to keep us WARM AND DRY at sea

If you ever had to abandon ship in the middle of ocean, a life raft could be your only hope to keep you safe and dry until rescue.

Researchers at the Marine Institute's Offshore Safety and Survival Centre (OSSC) are working in partnership with the National Research Council (NRC) and Memorial University's School of Human Kinetics to make sure that this is the case. They are looking at ways to improve liferaft safety for those to travel on the ocean.

In order to do this, real-life situations had to be re-created. This involved volunteers spending at least four hours (and sometimes up to eight hours) in a 16 person liferaft in the National Research Council Canada Institute for Ocean Technology's (NRC-IOT) ice tank and tow tank. Cold environmental conditions were simulated and the subjects were studied wearing both wet and dry clothing.

Jim Boone of the OSSC is one of the collaborators on the project. He says that this research is very necessary as the results will increase survival time. "The purpose of this study is to provide reliable, objective knowledge about the performance of liferafts as it relates to heat loss," he said. "Our goal is to be able to identify areas of improvement."

To identify these areas of improvement, Boone, along with his fellow collaborators on the project, Rob Brown, OSSC, Lawrence Mak, NRC, and Fabien Basset, School of Human Kinetics, went above and beyond the call of duty and volunteered to be human subjects in the study.

"As a researcher in the field of offshore and maritime safety, it is difficult to fully understand the environment and stress unless you are actually subjected to a survival situation. While most of the test subjects were taken from outside the research team, the team members also found it valuable to participate in order to help understand what an individual might experience in a liferaft."

Lawrence Mak, project manager for the study, also spent some time in the raft. "This is an interesting and challenging project. Our research team has made excellent progress. We are excited to help Canada influence international regulations and enhance marine safety with good research and sound results."

This is a 2.5-year, \$1.7 million project, sponsored by Transport Canada and The National Search and Rescue Secretariat (SAR) New Initiative Fund. The remaining funding came from other research partners including the Marine Institute's OSSC, the NRC Institute for Ocean Technology and Memorial University's School of Human Kinetics and Recreation. Members of the research team from Memorial include Drs. Scott Mackinnon and Fabien Bassett of the School of Human Kinetics and their graduate students Kerri-Ann Evelyn and Steve Penney and Jim Boone, Rob Brown and Kevin O'Brien of MI's Offshore Safety and Survival Centre.



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