

The Innovation Wave



Canadian Activities

Canadian Profiles

Exhibit Map



Partners are closer
than they appear.

Canada is a breaking wave of innovation in marine technologies! Shaped by three of the world's oceans and the Great Lakes, Canada is committed to marine and ocean science.

Use this guide to find Canadian exhibitors at Oceans '06. Visit our Canadian Technology Pavilion and participate in our activities to find partners in every aspect of marine and ocean science. Here you'll learn about high-profile ocean science projects.

Canada's commitment to investing in Research and Development gives an innovative edge to our marine industry. Over 45 Canadian organizations are exhibiting at Oceans '06 in Boston.

Canadian technologies at Oceans include:

- real-time detection and measurement systems
- environmental data acquisition systems for air and water
- marine geomatics technologies
- naval architecture
- underwater and airborne acoustics
- vibration and blast physics
- submarine rescue
- subsea engineering
- remote tooling systems
- ocean robotics

Oceans '06 is a great opportunity to forge closer ties between Canadian industry and academia with international partners.

See our technologies and meet our innovators while you're in Boston.



Partners are closer than they appear.



Canadian Activities at Oceans '06

Tutorials: High-Profile Ocean Science Projects

Monday 2:00–4:00pm

► Hynes room 111

Learn about cutting-edge ocean science projects in Canada. Session focuses on Canada's capabilities in underwater observation, sensors, and data integration and management. High-profile projects affecting Canadian waters will be presented.

Investment Forum on Marine Technology

Monday 4:30–6:00pm

► Hynes room 111

Where's the money? Start-ups and established companies need to understand the investment climate in marine technology. Panellists will discuss key issues in the areas of investment, strategic partnerships and technology development. This panel is organized by the Canadian Consulate General in Boston.

Canadian Product Showcase

Tuesday 10:15am–12:00

► Hynes room 111

To learn more about new technologies and the latest in ocean science projects under development in Canada, come to the Canadian Product Showcase. This is an opportunity to witness a dynamic showcase of Canadian technology products and services, including the evolving world of renewable ocean energy.

Technology Transfer Dialog between Academia and Industry

Tuesday 2:00–4:00pm

► Hynes room 204

This cross-border dialog will facilitate collaboration, cooperation and partnerships in research, technology transfer and commercialization. Researchers, academics, professional technology transfer officers and industry representatives discuss key issues, opportunities and challenges. Join us for this encounter between academia and industry from the US and Canada in marine technology.



► Canada Reception

Wednesday 6:30–7:30pm

► Blue Wing, Museum of Science, Boston

All OCEANS '06 attendees are invited to gather in The Blue Wing at the Museum of Science, Boston, on Wednesday evening, September 20 from 6:30–7:30pm for the Canada Reception, which precedes the Gala Dinner to be held at the Museum. Don't miss this opportunity to network with other attendees and especially with the many Canadian participants who represent companies, research institutions and universities from across Canada.

B2B Breakfast Networking Event— "Are partners closer than they appear?"

Thursday 7:30–9:30am

► Hynes room 203

Come for breakfast and stay to interact with US and Canadian oceanographic professionals. Network over a delicious buffet breakfast at the Hynes Convention Center. Great speakers from Canada and the United States will address partnering ideas. Come to find out just how close good partners are. Since the number of seats is limited, please RSVP to boston.rsvp@international.gc.ca!

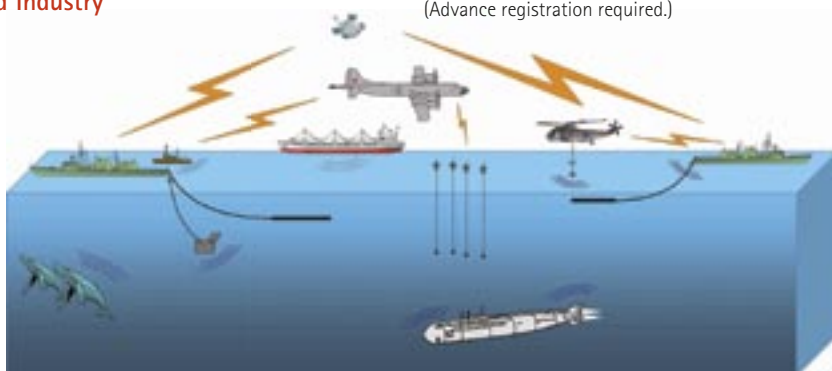
Visit to Woods Hole Oceanographic Institution

Thursday 9:30am–3:30pm

► Hynes entrance

If you are a Canadian participant at the Conference, you can join us for a pre-arranged visit to New England's premier oceanographic institution. Learn about their current projects, initiatives and how they can partner with you. Meet bus at Boylston Street Entrance of the Hynes.

(Advance registration required.)



Canadian Activities at Oceans '06

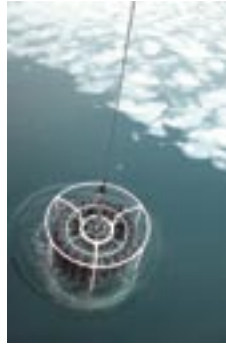


Monday

Tuesday

Wednesday

Thursday

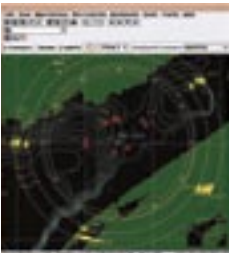


7:30
**B2B Breakfast
Networking Event**
Room 203
9:30

10

10:15
**Canadian
Product Showcase**
Room 111
12:00

11



12



1



9:30

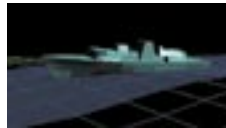
**Visit to
Woods Hole
Oceanographic
Institution**
{Canadian exhibitors}

3:30

2

2:00
**Tutorials:
High-Profile
Ocean Science Projects**
Room 111
4:00

2:00
**Technology Transfer
Dialog**
Academia and Industry
Room 204
4:00



3

4

4:30
**Investment Forum
on Marine Technology**
Room 111
6:00



5

6



6:30
**Canada
Reception**
Museum of Science
7:30



7



Canadian Exhibitors at Oceans '06

Aerospace & Defence Industries Association of Nova Scotia (ADIANS)

1018

www.adians.ca

ADIANS' Ocean Technology Council represents a cluster of advanced Ocean Technology Companies that collaborate to increase awareness, support advocacy, and increase business development in collaboration with the Federal Government's Oceans Action Plan's fourth pillar—the Ocean Science Technology Partnership.

Applanix

212

www.applanix.com

Applanix, a wholly owned subsidiary of Trimble, develops, manufactures, sells and supports precision products that accurately and robustly measure the position and orientation of vehicles operating in dynamic environments. Applanix strives to support customers around the world with exceptional service, anywhere at anytime.

Applied Microsystems

1015

www.appliedmicrosystems.com

Water is never just H₂O. This is the foundation of Applied Microsystems, manufacturer of in-situ, real-time detection and measurement systems for water. Oceanographic research, environmental protection or marine survey—detailed knowledge of the properties of water is critical. For 30+ years, Applied Microsystems has manufactured SV and CTD instrumentation.

ArcticNet

901

www.arcticnet-ulaval.ca

The ArcticNet Network of Centres of Excellence of Canada brings together over 100 research teams from 27 Canadian universities and 5 Federal departments with their partners in Inuit organizations, government, industry and foreign research laboratories to study the impacts of climate change in the coastal Canadian Arctic.

ASL Environmental Sciences Inc.

923

www.aslenv.com

ASL has specialized in physical oceanography since 1977 and provides a broad range of oceanographic measurement, modeling, data processing and analysis services. ASL's upward looking sonar products include the Ice Profiling sonar for accurate long-term measurements of ice keels and the Acoustic Water Column Profiler for monitoring the abundance and movements of zooplankton.

AXYS Technologies Inc.

600

www.axystechnologies.com

AXYS Technologies Inc. (AXYS) is a leader in environmental data acquisition systems. AXYS delivers complete monitoring solutions for measuring parameters in air and water by providing turnkey integrated hardware, software, and field services. Our systems provide real-time data with a wide range of data telemetry options including radio, cellular phone, and satellite.

British Columbia Innovation Council

923

www.bcinnovationcouncil.com

BC Innovation Council is the province's lead organization supporting applied research and commercialization of science and technology to foster province-wide economic development. The BC Innovation Council serves as a one-stop point of access and support to companies, educational institutions, technology industry awareness groups, federal science and technology agencies and university research labs.

BOT-USA

507

www.brooke-oceanusa.com

Brooke Ocean Technology supplies handling systems for towed bodies, ROVs, AUVs and other payloads. These systems typically incorporate a capture mechanism to control the motion of the payload as it is transferred between the sea and the vessel.

CCMC

1006

www.ccmc.nf.ca

CCMC, founded in 1989, facilitates the expansion of the industrial base and enhances the competitiveness of the Canadian marine ICT industry. CCMC focuses on the strategic partnerships between industry, research centres, universities, government agencies, and finance institutions. As both an investor and a partner, CCMC demonstrates a positive impact on both the technical and commercial success of industry in this sector.

Canadian Space Agency

901

www.space.gc.ca

Day and night, in all weather conditions, RADARSAT can cover vast areas for vessel tracking and oil-spill surveillance, ice monitoring, and search and rescue operations to help ground, air, and sea-based maritime resource units. Canadian satellite technology provides the cost-effective, timely, accurate information delivery that's critical to decision makers and stakeholders.

▶ Canadian Technology Pavilion

901

www.boston.gc.ca

The Canadian Pavilion is showcasing innovative ocean technologies including space-borne radar for marine surveillance, autonomous underwater vehicles, offshore oil and gas environmental research, hydrographic surveying, maritime security, ocean energy, and ocean observing systems including *Smart Bay* and *VENUS*. Also featured is ArcticNet's collaborative research on climate change in the Canadian Arctic.

CARIS

416

www.caris.com

Established in 1979, CARIS develops marine and hydrographic software. Continually selected number one by esteemed military agencies, survey contractors, ports and harbours and academia, the CARIS product line provides a complete 'Ping-to-Chart' solution from post-processing of bathymetric data to paper, raster and electronic chart production, to spatial database management and production, through to Internet distribution.

CIDCO (Interdisciplinary Centre for the Development of Ocean Mapping)

1011

www.cidco.ca

CIDCO's aim is to promote marine geomatics sciences and technologies to industrial, governmental and academic partners in North America. With surveying facilities CIDCO can experiment with new technologies and provide support on operational marine data acquisition methods and technologies as well as databasing, visualisation, interpretation and dissemination.

Centre for Offshore Oil and Gas Environmental Research (COOGER)

901

www.dfo-mpo.gc.ca/science/cooeger-crepge/main_e.htm

The Centre for Offshore Oil and Gas Environmental Research (COOGER) was established in 2002 to assess impacts associated with offshore oil and gas activities. Our group identifies priority research and coordinates collaborative programs

that have included the development of instrumentation and techniques for environmental effects monitoring and contaminated site mitigation.

Deep Development Corp.

923

www.deepdevelopmentcorp.com

Deep Development Corp combats global threats in Feet Wet Applications and its product suite includes the UDU Underwater Detection Unit™, a portable imaging sonar package for port security, and the Viperfish™ range of ruggedized DVRs. Contact us to see how DDC can help secure your high-value marine assets.

Focal Technologies Incorporated

1016

www.moogpowerdata.com

Focal Technologies has delivered trusted technology products and services to the offshore petroleum, oceanographic, seismic and maritime defense industries for over 20 years. A member of Moog Components Group, Focal specializes in providing custom electrical slip rings, fiber optic rotary joints, swivels and multiplexer solutions for the harshest offshore environments.

GRI Simulations Inc.

1006

www.grisim.com

Developers of VROV (Virtual Remotely Operated Vehicle), the world's most powerful simulator for UUV pilot training, mission planning and rehearsal, prototype design and testing, and real-time visualization. The exhibit features the VROV Benthos Stingray simulator and real-time visualization system available for trial flight by visitors.

Imagenex Technology Corp

404

www.imagenex.com

Imagenex Technology Corp. was founded in 1988 by pioneers in the development of high resolution sonar. On an international level, Imagenex is an innovative company that designs and manufactures sonar systems and continues to move forward through ground-breaking advances, with continual support for the customer's needs and demands.

Institut des sciences de la mer de Rimouski (ISMER)

1011

www.pqm.net/ismer

Located on the campus of the Université du Québec à Rimouski and composed of researchers and specialists whose expertise covers the main areas of coastal oceanography; ISMER offers a diverse and integrated research programme. Therefore students have access to a variety of expertise.

Institut maritime du Québec

1011

www.imq.qc.ca/

Founded in 1994, the Institut maritime du Québec (IMQ) is the most important maritime teaching establishment in Canada. The IMQ trains a skilled workforce in five specialties: naval architecture, navigation, marine engineering, professional diving and transport logistics. The institute supports research and development. Training is in accordance with the STCW Convention and Transport Canada.

International Submarine Engineering Ltd. (ISE)

923

www.ise.bc.ca

International Submarine Engineering (ISE) Ltd is a privately held company based in Port Coquitlam, BC Canada and has been in operation since 1974. ISE and its subsidiary, ISE Research (ISER) Ltd are high technology engineering companies engaged in the development and manufacture of undersea vehicles, computer control systems, and robotics.

IVS-3D

315

www.ivs3d.com

IVS 3D's Fledermaus software suite provides users with powerful interactive 3D visualization tools for data processing efficiency, quality control accuracy, data analysis completeness, and project integration, promoting clear communication and insight. Fledermaus has a comprehensive Area Based Editing capability, real-time vessel tracking module, and a pipeline and route planning tool.

JASCO

919

www.jasco.com

JASCO provides government and corporate clients with engineering, technical, operational and environmental planning/compliance support services. Our areas of expertise include: underwater and airborne acoustics; acoustic modeling; acoustic research; marine environmental compliance; vibration and blast physics; passive acoustic monitoring; sonar systems and oceanographic instrumentation.

Knudsen Engineering Ltd.

306

www.knudsenengineering.com

Recognized for innovation, high performance products and dedicated customer support, Knudsen Engineering Limited (KEL) manufactures single beam echosounders for a wide range of applications including survey, navigation, dredging and scientific research. Stop by Booth 306 to see the Knudsen product showcase including their new, next generation Sounder and Chirp Series.

Marine Magnetics Corp

807

www.marinemagnetics.com

Marine Magnetics designs and manufactures high-sensitivity magnetometers and gradiometers. Products include the industry standard SeaSPY, and the SeaQuest cutting edge in multi-sensor Gradiometer arrays. Our Explorer's compact size makes it ideal for shallow water surveys. Our products are used by navies, research institutes, universities, archaeologists, geophysicists and survey companies worldwide.

Martec Metocean

701

www.metocean.com

METOCEAN Data Systems Limited is a manufacturing and development company of meteorological data acquisition platforms, asset management products, oil tracking buoys and water monitoring systems. Since 1985, METOCEAN has been the world leader in the design and manufacture of air-deployed drifting buoys, remote weather forecasting stations and VMS systems.

Maritime Innovation

1011

www.imar.ca

Maritime Innovation, an applied research center, identifies and develops solutions for the marine industry to enhance the competitiveness and efficiency of shipping companies, ports and marine suppliers and stakeholders through innovation. Our research areas are marine security, electronic navigation, underwater interventions, pollution prevention and ships and ports management.

Marport Canada Inc.

1006

www.marport.com

Marport Canada Inc. is a world leader in underwater sensing, processing and communication products. We develop and manufacture next generation acoustic products, including sensors, echo-sounders and sonars for the global commercial workboat fleet.

Maurice Lamontagne Institute

1011

www.dfo-mpo.gc.ca

The Maurice Lamontagne Institute, located in Mont-Joli, Quebec, Canada, is part of Fisheries and Oceans Canada's network of research centres. It provides scientific research, monitoring activities, advice and scientific products, services and data management in support of: sustainable fisheries and aquaculture, healthy and productive aquatic ecosystems, and safe and accessible waterways.

Multi-Électronique (MTE) Inc.

1011

www.totalsat.qc.ca/mte/

Multi-Électronique is doing business in the design and assembly of electronic equipment in many fields including marine science. Our products are designed to match our customers' requests, and include: an underwater sound recording device (AURAL-M2), a winch cable length counter, a laboratory sample counter, and an instrumental buoy.

Newfoundland Department of Innovation, Trade & Rural Development

1006

www.gov.nl.ca/intrd

www.nlbusiness.ca

Department of Innovation, Trade & Rural Development in partnership with individuals, communities, businesses and other levels of government is responsible for creating and maintaining a competitive economic environment that encourages and supports private sector business growth and new long-term sustainable employment opportunities for Newfoundlanders and Labradorians.

Nova Scotia Business Inc.

917

www.novascotiabusiness.com

Nova Scotia Business Inc. (NSBI) is the business development agency for the province of Nova Scotia, Canada; focusing on export promotion, investment attraction, business retention and expansion, and financing. We are the first point of contact for businesses and organizations, providing services that help Nova Scotia companies grow and stay competitive in the global marketplace.

The Ocean Renewable Energy Group

901

www.oreg.ca

The Ocean Renewable Energy Group's industry, academia and government members mobilize Canadian energy project implementation experience, together with new and emerging ocean technologies, to ensure that Canada is a leader in providing ocean energy solutions to a world market. A national organization, it is headquartered in British Columbia.

OceanWorks International Corp

923

www.oceanworks.com

OceanWorks is an independent company specializing in subsea systems. Services include design, manufacturing, test and integration, project management, training, and technical support for science, industry and military clients worldwide. We are recognized leaders in the fields of submarine rescue, atmospheric diving, cabled networks, subsea engineering, and remote tooling systems.

Optech Incorporated

704

www.optech.ca

Optech is the world leader in advanced laser-based (lidar) survey instruments, with an extensive global client base. Optech's SHOALS (Scanning Hydrographic Operational Airborne Lidar Survey) system is the world's smallest, fastest and most accurate airborne laser bathymeter. SHOALS is a complete littoral zone mapping solution, providing area coverage rates as high as 70 km² per hour.

Pacific Ocean Shelf Tracking Project (POST)

923

www.postcoml.org

POST is a not-for-profit organization that uses acoustic technology to track the movement of individual aquatic animals. Tags implanted in the animals' abdomens send out unique signals, which are detected by receivers placed on the ocean floor. POST results provide much needed insight into the mysteries of migration.

Québec Ministère du Développement Économique, de l'Innovation et de l'Exportation

1011

www.mdeie.gouv.qc.ca

The Ministère du Développement Économique, de l'Innovation et de l'Exportation, a Quebec government department, has initiated a project to help regions to develop clusters based on their specific competencies and adopt shared innovation-led strategies and actions plans. A "Marine resources, sciences and technologies" cluster has been selected for Quebec's maritime regions.

RBR Ltd.

313

www.rbr-global.com

For over 30 years, RBR has been manufacturing precision instruments for oceanography, limnology and cryospheric studies. Current products include CTDs, thermistor chains and wave/tide gauges. Recent introductions include a flexible data buoy controller, vented tide gauge, and large removable flash memory (<2GB) with USB support.

ROMOR Atlantic Ltd

921

www.romor.ca

ROMOR is Canada's ocean solutions provider. With 23 years of experience, ROMOR exclusively represents and distributes oceanographic, offshore oil and gas, geophysical and defense instrumentation and supplies. We can fulfill your equipment, field service, training, systems integration and

new product development needs. Equipment can be customized to your specifications. Visit us at Oceans '06 to discuss how we can fulfill your technical requirements.

Roper Resources

1019

www.roperrsources.com

Manufacturers Representative selling ocean robotics. ROVs, AUVs, Sonars, Cameras, Manipulators and Custom Tools.

Seimac Limited

917

www.seimac.com

For over 25 years, Seimac has been designing, manufacturing, and marketing mission critical radios used in remote deployments for search and rescue and telemetry and tracking applications. Our global clients operate in diverse sectors such as search and rescue, military, wildlife and asset tracking, oceanography, oil and gas, and research.

SOPER – Rimouski Economic Development Corporation

1011

www.promotion-rimouski.org

SOPER is the economic development corporation of the city of Rimouski, an urban area of 50 000 people on the south shore of the St. Lawrence River. The mission of SOPER is to support all new applied technology projects and initiatives such as marine technology, communications, biotechnology, biological resources and environmental survey.

Smart Bay Technology

901

www.smartbay.ca

SmartBay: An operational showcase of Canadian ocean expertise in action; demonstrating the benefits of improved access to information in support of integrated management of the sensitive coastal and ocean environment of Placentia Bay, Newfoundland. SmartBay: Better information—better decisions.

Technopole maritime du Québec

1011

www.tmq.ca

Our mission is to create a stimulating environment for the sustainable development of marine sciences and technologies, the cornerstone for a knowledge-based sea and ocean economy for Quebec's coastal regions, and to ensure these regions become key players at the national and international level.

VENUS (Victoria Experimental Network Under the Sea)

901

www.venus.uvic.ca

VENUS, the Victoria Experimental Network Under the Sea, connects you via the Internet to underwater instruments on the ocean floor. Cable-linked seafloor observatories such as VENUS and NEPTUNE will expand the boundaries of ocean exploration and give us a new way of studying and understanding our planet.

Wetsat/Satlantic

908

www.wetsat.com

www.satlantic.com

Satlantic designs, manufactures, and sells a wide range of precision sensors and systems for the study of aquatic environments. In addition to its range of active and passive optical sensors, the firm offers sophisticated instrument integration, large scale ocean observatory solutions and data extraction tools for real-time operational decision making.

Xeos Technologies

1020

www.xeostech.com

Xeos Technology Inc. are data telemetry specialists. Xeos offer satellite, VHF, UHF, cellular, GPS, low power wireless data collection products. Iridium based mooring location beacons, wireless data loggers and the Serrano-Vee—the first commercially available underwater wireless DVT/TDR for marine wildlife tracking and recording.





Canadian Activities

Canadian Profiles

Exhibit Map

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Vancouver
Host of Oceans 2007

Québec City
Host of Oceans 2008



Canadian Consulate General
Three Copley Place, Suite 400
Boston, MA 02116 USA
Tel: 617-262-3760
Fax: 617-262-3415
boston.commerce@international.gc.ca
www.boston.gc.ca



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