



# XIII INTERNATIONAL WINTER ROAD CONGRESS

QUÉBEC, FEBRUARY 8 TO 11, 2010

## EXHIBITION GUIDE



Québec 





# FOUR COMPANIES . . . UNITED UNDER K+S . . .

all dedicated to providing high-quality deicing salt products to keep the world's roadways and walkways safe to travel during winter's inclement weather.

The companies' abundant salt deposits, located in Canada, Europe, the United States, and South America; efficient production techniques; strategically situated salt service centers located around the globe; and, knowledgeable employees dedicated to providing excellent customer service, result in satisfied, confident customers who can rely on the consistent, cost-effective availability of ample supplies of high-quality deicing salt products.

"SALT...YOUR NATURAL CHOICE."

To learn more, visit the companies' combined exhibit at PIARC.



The Canadian Salt Company Limited

Booth #223



Booth #320



INTERNATIONAL SALT  
an SPL company

Booth #322



Booth #221

## A WINDOW ON THE WORLD

The XXIII International Winter Road Congress is a showcase of tangible initiatives, technology and innovation in winter road maintenance. There will be over one hundred exhibitors bringing together 500 people from the Americas, Europe and Asia for this major event!

Manufacturers, suppliers and distributors of winter products and equipment, consultants and contractors in construction or specialized in intelligent transportation systems will be alongside representatives from professional associations in winter service and government agencies there to highlight their know-how through the impressive design and size of the national pavilions.

A vehicle demonstration area was also specially built in a section of the exhibition to allow room for road vehicles and accessories, which are the pride of the businesses or organizations that own them.

### A UNIQUE OPPORTUNITY FOR DIALOGUE AND NETWORKING

The exhibition is at the heart of the Congress and is a meeting place for various stakeholders and specialists on winter issues.

It will host a number of activities, such as the opening of the exhibit hall in the presence of the dignitaries on Monday, February 8 at 4:00 p.m., and will be open to all delegates for the duration of the Congress. On February 9, the Open House, upon invitation, will provide an opportunity to maximize networking opportunities.

The exhibition will also serve as a gathering place during breakfast (from 8 a.m. to 8:30 a.m.) and coffee breaks. For those interested, lunch can also be purchased on Tuesday and Wednesday at a food counter open between 11:00 a.m. and 1:00 p.m.

Lastly, the Congress poster sessions will be presented within the exhibition, thereby fostering relationships between exhibitors, speakers and delegates.

### AN ECO-RESPONSIBLE EXHIBITION

Given that "Sustainable Winter Service for Road Users" is the theme of the Congress, the international exhibition encouraged its exhibitors to consider this component when designing their stand.

By evaluating how the environment was taken into account in their project and by completing the self-evaluation form, the most eco-responsible exhibitors will stand to be recognized and presented as such!

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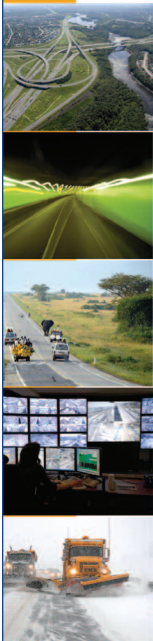
# Mon Québec c'est l'hiver!

An active member of the World Road Association since 1973, the Gouvernement du Québec is involved in organizing the XIII International Winter Road Congress. We are proud to invite you to visit the Québec Pavilion, where you can meet with the representatives of various government departments and agencies. You can also discover how Québec has forged a solid reputation for winter maintenance over the years.

**Don't miss the opening cocktail party, which will be held at the Québec Pavilion after the inauguration of the exhibition on Monday, February 8, 2010, around 4:30 p.m.**

Québec 

Dissemination of good practice - Prospective analysis forum - Networking - Partnerships - International cooperation and development - Safe Infrastructure - Network of experts - Tools to aid translation - Sustainable transport systems - Risk management



## WORLD ROAD ASSOCIATION

- > Founded in 1909 as 'Permanent International Association of Road Congresses' (PIARC)
- > Non-political, non-profit Association with consultative status to the United Nations

[www.piarc.org](http://www.piarc.org)

Exchanging knowledge and techniques on roads and road transportation

### KNOWLEDGE ACQUISITION AND SHARING

#### 18 TECHNICAL COMMITTEES

- > More than **800** experts and decision-makers
- > **4** strategic themes
- > Work program reviewed and redefined every **4** years

#### INTERNATIONAL SEMINARS

- > Encourage knowledge transfer and exchange at the regional level in developing countries and countries in transition.
- > Organized jointly with the host country and the Technical Committees.

#### NATIONAL COMMITTEES

- > Regional forum for the road and road transport community.
- > Conduct activities on behalf of the Association and disseminate information in the country.

#### WORLD CONGRESSES

XXIV<sup>th</sup> Congress - MEXICO \* 26 - 30 September 2011

XIV<sup>th</sup> Congress - ANDORRA \* 4 - 7 February 2014



### COMMUNICATION AND DISSEMINATION OF KNOW-HOW

#### THE PUBLICATIONS

<http://publications.piarc.org/en/>

Publicly available in the **PIARC VIRTUAL LIBRARY**



#### TERMINOLOGY

<http://termino.piarc.org/search.php>

An range of multilingual and technical dictionaries and lexicons. Online.

#### THE NATIONAL COMMITTEES NEWSLETTER

Trilingual information newsletter (French-English-Spanish) on the activities of the National Committees within member countries.



#### BECOME A MEMBER

[www.piarc.org](http://www.piarc.org) - [info@piarc.org](mailto:info@piarc.org)

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# EXHIBITION PLAN





# ANDORRA PAVILION

STAND 725

## Government of Andorra

The Andorran Government, led by the Head of Government, supports the initiative for organizing the XIV International Winter Road Congress in 2014.

Andorra is a parliamentary co-principality, with a Head of Government and two Co-Princes who are the heads of state: the president of the French Republic and the bishop of Urgell. The Government, is one of the main backers of this candidacy, through which the country wishes to show the work done during recent years in matters of winter road viability, and at the same time wishes to use this meeting of experts to learn and apply the latest innovations which could further improve the quality of life of the inhabitants of Andorra and the millions of tourists who visit the country each year.

## Andorra la Vella and the other Communes

Andorra is divided administratively into seven communes. The communes are the senior local authority and have governing power within their territories, which comprise various villages, as well as being able to present bills to Parliament. The communes carry substantial weight in the Andorran political panorama and this is why their support for the candidacy for the Winter Road Congress is vital. Andorra la Vella, the capital, will host the Congress, but the support of the rest of the communes is essential in uniting efforts and showing the cohesion and work done in the whole of the country.

## Andorra Turisme

Andorra Turisme is a limited company which centralizes tourist promotion in the Principality, created with the object of bringing together all public and private agents in the sector.



# CANADA PAVILION

# STAND 421

In 2010 many different, complex issues will be of interest to all the road industry professionals: emerging markets, the economic downturn, digital technology, the omnipresence of the Internet, subcontractors, public-private partnerships, global competition, etc.. During the XIII International Winter World Congress the Canada Pavilion will be the focal point of the sustainable winter service industry. It will be a unique catalyst that will provide opportunities to all service providers such as manufacturers, suppliers and distributors of winter road equipment, consultants and specialists, road construction companies, businesses specializing in intelligent transportation systems, associations, universities, road associations and government agencies to share ideas, build partnerships and initiate business at the international level. It will also provide a space where experts can discuss winter road management issues and learn more about Canadian know-how.

**The Canada Pavilion will be a reflection of Canada's international branding: creative, innovative and competitive.**

The Canada Pavilion will offer you the possibility to meet potential clients and to reconnect with former ones, and will help you find the way to succeed in an ever-changing global market.

## Meeting Place

This meeting will enable you to exchange and allow you to:

- Meet potential clients one-on-one and change inquiries into sales contracts
- Generate a potential database of worldwide clients
- Generate sales proposals, contracts and build up business relationships with existing clients
- Try new ideas
- Develop new markets
- Reinforce your distribution channels

## Technical Presentations

Moreover, all Congress participants are invited to find out about the results of the latest research reports on sustainable winter service by attending three technical presentations that will be given every day at the Canada Pavilion. These presentations are under the following themes:

### 1) Autonomous Monitoring Station

A reliable and accurate alert system that provides timely information about the driving conditions on highways can support decisions on when a roadway should be closed and reopened, and provide information to travelers to mitigate the impact of severe weather. These systems are most useful on remote parts of the network where traditional telephone services and power are not available.

### 2) Road Salts

To ensure the safety of Canadians and to protect the environment, Environment Canada published, on April 3, 2004, the Code of Practice for the Environmental Management of Road Salts. This code, of a voluntary nature, recommends preparing a salt management plan for municipalities and various road officials. This plan would focus on improving practices regarding snowplowing, road salts storage and application on the roads.

### 3) Canada: Expert in Winter Tire Technology

In order to get around safely on our roads, winter tires are essential for safe winter driving to ensure a better grip and handling on icy or snow-packed roads. Come and discover what has been done to make winter driving safer in Canada.

## Technical Contest

A draw of collectable Vancouver 2010 Olympic coins is also part of these technical sessions. Quiz cards will be distributed to test your knowledge of road maintenance and safe winter driving in Canada.

## Cultural Elements

The Canada Pavilion is also a gathering space to witness cultural components of daily life in the winter season, such as the building of a traditional inukshuk on site with the presence of a native Inuit who will tell you more about these first road signs of the Great Canadian North. Canadian winter transportation modes are also part of the cultural component while highlighting traditional ways of travelling, which are still used today. These transportation modes are also a nod to winter sports that are directly linked with the 2010 Olympics, which will take place in Vancouver the week after the Congress. In addition, activities are planned for the official opening of the Pavilion, as well as other special events throughout the Congress.

We invite all Congress participants to come and meet at the Canada Pavilion to discuss all issues regarding winter road maintenance in order to better understand the needs and help make winter roads safer wherever winter conditions exist around the globe.

The French Committee of the World Road Association (CF – AIPCR) is affiliated with the World Road Association (PIARC) and brings together all its French members. It facilitates the consideration of experiences and interests of the French road community in the activities of PIARC technical committees, disseminates the results of these activities at the national level, organizes events to exchange information and ideas on topical issues, and seeks to establish a link with other road sector organizations by arranging joint initiatives and promoting productive collaboration. [www.cf-aipcr.org](http://www.cf-aipcr.org)

The President of the French Republic wanted to create the **Ministry for Ecology, Energy, Sustainable Development and Town and Country Planning** to take up the challenges of sustainable development, and prepare and implement decisions made at the Grenelle de l'Environnement.

In order to respond effectively to these issues, the Ministry was re-organized around five key Directorates-General. In terms of transport, we wanted to create a Directorate General for Infrastructure, Transport and the Sea (DGITM) with the task of promoting a voluntary policy of modal transfer by including the concept of sustainable development in each stage of the decision-making process.

#### The Department of Transport Infrastructures - DIT Tasks of the DIT

- planning transport infrastructures
- major high-speed railway projects, canals, motorways, port investments
- maintenance policy for national rail and road networks
- road usage traffic and information management
- management of motorway concession contracts
- stewardship of the French Rail Network (RFF) and French Navigable Waterways (VNF)
- management of inter-district highways offices

#### Principal projects of the DIT

- developing a national transport infrastructures scheme
- Lyon-Turin
- Charles-de-Gaulle airport express
- operations for high-speed railway projects
- Seine North Europe canal
- transport-related sections of project contracts
- managing motorway concession contracts
- "Eurovignette" directive
- implementation of new railway pricing

[www.developpement-durable.gouv.fr](http://www.developpement-durable.gouv.fr)

The **Technical Department for Transport, Roads, and Bridges (Sétra)** is a technical department within the French Ministry of Ecology, Energy, Sustainable Development and the Sea (MEEDDM), in charge of green technologies and climate change negotiations and it intervenes in the field of roads, engineering structures and transport. Sétra works in partnership with all the actors of the French road community and regularly collaborates with other specialized bodies, in particular in the fields of ecology, sustainable development, railroads, the sea or river transport. It also has a strong focus on exchanging its experience and projects with its international counterparts, through bilateral co-operation, presentations in congresses or expertise/consultancy missions.

[www.setra.developpement-durable.gouv.fr](http://www.setra.developpement-durable.gouv.fr)

**LCPC** is a public scientific and technological institution whose activities are overseen jointly by the ministries responsible for ecology and research. A respected reference organization across Europe for its achievements in civil engineering research, LCPC conducts projects by combining fundamental research with modelling work, laboratory experiments and field measurements. [www.lcpc.fr](http://www.lcpc.fr)

Keeping close watch on the climate 24 hours a day, **Météo-France** is the national meteorological service for metropolitan France and French overseas territories. Leveraging in-depth knowledge of the atmosphere and climate, Météo-France develops customized services and products for both public and private sector clients. On the international level, Météo-France participates actively in the work of the World Meteorological Organization and exports its know-how, notably through its subsidiary Meteo France International, to contribute to policies promoting sustainable development. Météo-France is a public institution reporting to the Ministry of Ecology, Energy, Sustainable Development and the Sea, in charge of green technologies and climate change negotiations. [www.meteofrance.com](http://www.meteofrance.com)

**ASFA** is the professional association of road concessionaries and operating companies. It brings together **18 members** operating more than 8,600 km of toll road network. ASFA's role is to promote the public service assignment system delegated to publicly or privately owned companies regarding the financing, construction, management, operation and safety of road infrastructures. ASFA is committed to dialogue among its members in order to have common policy to improve safety and enhance customer services to ensure sustainable mobility. Industry-related social agreements are negotiated within ASFA. For more information see: [www.autoroutes.fr](http://www.autoroutes.fr)

**ARVEL**, a subsidiary of Giletta, designs and manufactures equipment for winter maintenance such as application tools (spreaders, brine, etc.), scraping tools (blades, bows, side fins) and for members team snow removal (installation of plate coupling, hydraulic equipment, signaling completion of underframe, drawing file RTI, etc.). An integrated geolocation is also part of the range of products that complement snow removal work. [www.arvel.fr](http://www.arvel.fr)

**Noremat** offers a complete range of professional reach mowers designed for roadside verges and landscape maintenance. With a reach from 4.20m to 8.30m, the products combine construction robustness, comfort in use and ease of maintenance. Continuously in touch with its customers and users (15000 visits in 2008), Noremat's sustained growth is built on a policy of continuous innovation and an unequalled level of service in its sector of activity. [www.noremat.fr](http://www.noremat.fr)

# ITALY PAVILION

# STAND 601

## AISCAT

The Italian Association of Toll Motorways and Tunnels Concessionaries consists of 23 Italian toll motorways and tunnels companies. It is concerned with problems regarding planning, design, construction, maintenance and management of motorways and tunnels. It carries out research and studies on transport safety, planning and economics, with the main objective of contributing to the improvement of service standards and road safety and ensuring that the sector has relationships with competent institutions and organizations.

[www.aiscat.it](http://www.aiscat.it)

## Anas SpA

Anas SpA manages the Italian highway and road network, which is of national interest. It guarantees mobility throughout the country, ensuring that the network it looks after is efficient, safe and practicable. Anas also gives high priority to project quality and to the environment and landscape. Anas is a joint-stock company owned exclusively by the Italian Finance Ministry. The Ministry of Infrastructure and Transport, which supervises both technical and operational activities, controls the company.

At the present time, the functions delegated to Anas regarding the network of highways and motorways of national importance are: management, regular and ad hoc maintenance of highways and motorways of national importance; adaptation and progressive improvement of the highway and motorway network and road markings and signs; construction of new major highways and motorways, including toll routes, both directly and by contracting firms; information services for users, starting from signal equipment; monitoring of work being carried out by contracting firms and control of motorway management; implementation of laws and regulations concerning the asset constituted by major highways and motorways and safeguarding of traffic and signs; adoption of the provisions necessary for traffic safety on highways and motorways; and creation of and participation in studies, research and experiments regarding road and traffic conditions. [www.stradeanas.it](http://www.stradeanas.it)

## Veneto Strade S.p.A.

Veneto Strade was established in 2001 in compliance with Veneto Regional Law No. 29/2001.

With this Law, issued following the transfer of jurisdiction from the State to the regions and local authorities regarding roads, the Veneto Regional Council authorized the Regional Executive to form Società Veneto Strade S.p.A. and to entrust it with planning and carrying out work on the regional road network.

Veneto Strade S.p.A. is a mainly public company that counts among its shareholders the Veneto Region (30% of shares), the seven provincial authorities of Belluno, Padova, Rovigo, Treviso, Venezia, Verona and Vicenza (total shares equaling 50%), while the remaining 20% is divided among the four Veneto toll operating companies: Venezia e Padova S.p.A., Autostrade Concessioni e Costruzioni Autostrade S.p.A., Società per Azioni Autovie Venete and Società per Azioni Autostrada Brescia, Verona, Vicenza, Padova.

The global development of the road network managed by Veneto Strade covers about 1900 km: 800 km can be classified as "mountain"; some roads are in areas of great tourist and landscape interest with 14 Dolomites and pre-Dolomites passes, 12 higher than 1500 m above sea level, including Passo Pordoi, Falzarego, Giau, Fedaia, Val Parola, which are all higher than 2000 m above sea level.



The Japanese Pavilion at the PIARC XIII International Winter Road Congress introduces cutting-edge winter road maintenance technologies that have been developed to ensure comfortable winter living in the cold, snowy regions of Japan. The displays emphasize the pivotal issue of ecology, under the theme of "green winter road management, Japan." The environmentally friendly winter road maintenance technologies that are introduced have been developed by road administrators, expressway companies and road-related public-private corporations. The pavilion also showcases the seasonal attractions that have made Japan a prime travel destination.

The exhibits fall under five categories:

#### **Winter in Japan**

Cold, snowy regions make up about 60% of Japan, and in prefectures with annual snowfall of 50 cm or more, the government takes special measures to secure smooth winter road traffic. These include the development of efficient machinery, dissemination of winter road information for road users, and collaborative efforts by residents and governments. These endeavors are being made to ensure smooth winter traffic in the cold, snowy areas of Japan, which have unique cultural heritages and ways of life.

#### **Renewable energy road heating**

Environmentally friendly technologies are being developed toward reducing winter road maintenance costs and CO2 emissions. Most notable are road heating technologies that harness renewable energy sources, such as ground heat, ambient air, solar radiation, water (groundwater, lake water, hot spring water, tunnel spring water) and wind, and other sources that have been underutilized.

#### **Salt reduction**

Efforts are being made to reduce the amount of salt applied, as such application may adversely affect the environment. Alternatives to abrasives and salt that minimize the load on the environment have been produced from recycled materials. A method for evaluating the effectiveness of freeze-resistant pavements is introduced to make such pavements more effective.

#### **Effective winter road maintenance**

More effective winter road maintenance is reducing energy consumption through streamlined conventional procedures and the use of telecommunications technologies. Technologies introduced include systems for real-time snow removal machine location and logging, for real-time continuous skid coefficient observation and mapping, and for probe vehicle surveys.

#### **Landscapes and greening**

New technologies are enabling winter road maintenance that ensures ecologically sound roadsides and verdant roadside environments. Snowbreak woods serve to prevent snowstorm-induced poor visibility while also affording eco-friendliness and aesthetic enhancement.

Conference attendees who are interested in Japan's green road maintenance innovations are invited to visit the pavilion.

## KOREA PAVILION

## STAND 521

Since its establishment in 1969, Korea Expressway Corporation has created an innovative road culture and best practices representing a customer-oriented road builder in Korea.

The construction of expressways has increased the cost efficiency of transportation and greatly contributed to balanced national development. By 2010, the total length of expressways in Korea will reach 4,000 kilometers, allowing people to travel in comfort and safety without traffic congestion and improving quality of life and the nation's competitiveness.

KEC's business field is not limited to the domestic area. With rich experience and cutting-edge technologies, it is now expanding its business abroad, especially to developing countries to support the road network system and raise the standard of living. For that purpose, KEC puts an emphasis on development assistance as well as participation in various road projects.

### **Main Activities:**

- Construction & expansion of expressways
- Operation & maintenance of expressways
- Installation & management of service areas in expressways
- Development of areas adjacent to expressways
- Research & development of technology for expressways

**Nordic Road Association (NVF)** is a common Nordic association with members from both the public and the private sector, road administrations, municipalities, universities, service producers and providers, road related associations, etc. The next Nordic road congress will be held in Reykjavik, Iceland on June 11-13, 2012. [www.nvfnorden.org](http://www.nvfnorden.org)

**Arctic Machine Oy** is a leading road maintenance equipment manufacturer in Europe. In addition to our Finnish home market, we operate in all the Nordic and Baltic countries as well as in Russia and several other CIS countries. We are one of the few companies in the world that can equip an entire road maintenance unit with our own equipment – from snow clearance and road cleaning to antiskid treatment – and the only one that can top it up with an intelligent control system. [www.arcticmachine.fi/en](http://www.arcticmachine.fi/en)

The **Finnish Road Association's** main activities are lobbying for roads and road traffic, publications and events. The 29<sup>th</sup> Winter Road Congress in Finland will be arranged in Tampere, Finland, February 14-16, 2012. The program consists of an international seminar, exhibition and demonstrations. Finnish Road and Traffic is a magazine focusing on Finnish know-how within the transport infrastructure sector; ITS, maintenance, planning, innovations, etc. [www.tieydistys.fi](http://www.tieydistys.fi)

The **Finnish Transport Infrastructure Agency** combines the former Finnish Rail Administration, the Finnish Maritime Administration and the Finnish Road Administration. The main challenge of the Transport Infrastructure Agency is to ensure that both domestic and international travel and transport chains will function smoothly at all times. The new agency will focus on the maintenance and development of the existing infrastructure. [www.fta.fi](http://www.fta.fi)

**Intrinsic Ltd.** is a Finnish software company developing road weather-related software systems. We provide Road Weather Information System (RWIS) software solutions to governmental agencies, road maintenance companies and private road construction companies. The objective is safer and better flowing wintertime traffic. The RWIS product line includes solutions to collect, store, analyze and distribute information, based on the data from road weather stations, weather cameras and traffic flow sensors. [www.intrin.fi](http://www.intrin.fi)

**Roadscanners Oy** specializes in developing tools and services for traffic infrastructure condition monitoring and management. The main focus of the company's activities has been structural and functional condition monitoring and analysis and problem diagnosis of roads, streets, bridges, airports and railways as well as precise rehabilitation and strengthening design of these structures. Roadscanners has special expertise in ground penetrating radar (GPR) technology and in the use of NDT methods, especially electrical, to survey the mechanical properties of road construction materials. [www.roadscanners.com](http://www.roadscanners.com)

The **Icelandic Road Administration, Vegagerdin (ICERA)**, is mandated by law to supervise road construction, services and maintenance of Iceland's road system in accordance with need. Essentially, this requires the ICERA to maintain operations around the country. ICERA manages 12.869 km of state roads in addition there are 264 km of ferry routes. [www.road.is](http://www.road.is)

**Samrás Engineering** specializes in the design and development of electronic and measuring equipment, in addition, provides consulting services to business enterprises and organizations. In the course of over 20 years Samrás has accumulated valuable experience in its area of business, especially in the field of measuring technology and electronic equipment. [www.roadmonitoring.com](http://www.roadmonitoring.com)

**Samsyn** was established in 1995 as the distributor for ESRI software and provider of GIS services in Iceland. Since then the company has expanded its operations and Samsyn today is known as a market leader in the fields of GIS, fleet management and tracking, mapping and applications for emergency services and public safety in Iceland. [www.samsyn.is/index.php?id=64](http://www.samsyn.is/index.php?id=64)

**Norway** is a Nordic country of high mountains, deep fjords and severe winters. Under these conditions the **Norwegian Public Roads Administration (NPRA)** has evolved from a road construction agency to a provider of comprehensive traffic services, developing the transport systems of the future in collaboration with the information and communications industry. [www.vegvesen.no](http://www.vegvesen.no)

Snow and ice make roads dangerous. Road managers need reliable tools to assess road maintenance requirements. **Pon Equipment AS**, a Norwegian company, is the world wide supplier of TWO, a vehicle-mounted friction measuring device for roads and runways. TWO identifies road conditions through collecting GPS, friction and temperature data. TWO is the only friction measuring device that provides continuous friction readings [www.pon-two.com](http://www.pon-two.com)

**ViaTech AS** is a Norwegian company with a comprehensive range of products and services aimed at road, rail and airport authorities. The company develops, manufactures and services maintenance and planning systems including ViaPPS - an advanced metering system designed in close cooperation with the Norwegian road authorities, ViaPhoto - a digital photo system, and ViaFriction - a friction meter. Viatech AS is represented at the Nordic Pavilion. [www.viatech.no](http://www.viatech.no)

**Coralba AB** is a leading provider of equipment for effective road maintenance and road construction. With a speciality in friction measurement, we are partner to the Nordic road authorities regarding measuring winter road friction and quality control of winter road maintenance. Coralba markets and distributes Nordic solutions to a number of markets through a distributor network. [www.coralba.se](http://www.coralba.se)

**Falköping** units are professional machines for skid prevention. Our wide range includes spreaders for smaller yards as well as specially equipped machines for airports. We always focus on simple and effective design, minimal environmental impact and the best possible operating economy. [www.friggeraker.se](http://www.friggeraker.se)

**Mahlers** is the Scandinavia's largest producer of road equipment for snow removal. We produce snow ploughs for trucks, wheel loaders and tractors. We also produce street sweepers, sand spreaders, grader attachments and other special equipment for road maintenance. [www.mahlers.se](http://www.mahlers.se)

The **Swedish Road Administration (SRA)** has been commissioned by the Swedish government with the overall sectoral responsibility for the road transport system. This involves issues relating to environmental impact, road safety, accessibility, transport quality, regional development and gender equality. [www.vv.se](http://www.vv.se)

**VTI** is a research institute working in the transport sector. Our competence is in traffic safety, economy, environment, traffic analysis, public transport, behavior and the man-vehicle-transport system interaction, and in road design, operation and maintenance. [www.vti.se](http://www.vti.se)



# QUÉBEC PAVILION

## STAND 401

### Ministère des Affaires municipales, des Régions et de l'Occupation du territoire

The Ministère des Affaires municipales, des Régions et Occupation du territoire is the department responsible for municipal affairs and regional development and has accordingly the mandate to advise the government and **ensure interdepartmental coordination in these matters. Its mission consists in fostering, in partnership with municipalities and regional development stakeholders**, the establishment of quality municipal services for all citizens, the development of Québec's regions and rural areas as well as furthering the economic drive and international influence of Greater Montréal.

### Centre de gestion de l'équipement roulant (Rolling Stock Management Centre)

Managing a fleet of more than 7,500 vehicles and equipment units, the Centre de gestion de l'équipement roulant (CGER – Rolling Stock Management Centre) counts on 66 mechanical workshops across Québec to provide you with quality service wherever you are. Our dynamic and diversified team offers you various services intended to support you in managing your fleet, including fleet management analysis, vehicle leasing, vehicle repair and maintenance, engineering services and driver training.

### Ministère du Développement économique, de l'Innovation et de l'Exportation

The mission of the department is to support economic development, innovation and export trade, as well as research, particularly by encouraging coordinated and concerted action among the various players in the economic, scientific, social and cultural areas in order to promote job creation, economic prosperity, scientific development and sustainable development.

### Ministère des Relations internationales

The mission of the Ministère des Relations internationales is to promote and defend Québec's interests internationally while ensuring respect for its authority and the consistency of government activities. It is a department central to effective international action planned and carried out to serve Quebecers according to sustainable development principles

### Société de l'assurance automobile du Québec

The mission of the SAAQ is to protect and insure individuals against the risks inherent in use of the road, as part of a model that is unlike any other in the world. To this end, it compensates victims of road accidents and facilitates their rehabilitation, organizes prevention activities as well as activities to promote road safety, determines and collects insurance contributions, controls the right of access to the road network, collects related fees (driver's licence and vehicle registration) and monitors and controls carriers of persons and property.

### Ministère du Tourisme

The Ministère du Tourisme promotes, in consultation and partnership with public and private stakeholders, the development of the tourism industry and its contribution to economic prosperity and sustainable development.

### Ministère des Transports du Québec

In Québec, the government plays a leading role in the area of roads and transportation. In fact, the Ministère des Transports du Québec ranks among the leaders in the industry in terms of equipment, materials, innovative processes, infrastructure operation and transportation systems. Its mission: Ensure the sustainable mobility of people and goods throughout Québec on safe, efficient transportation systems that contribute to the development of Québec.

### The National Road Network

The Spanish State is organized territorially in 52 provinces that form 17 regions. There are also 8108 municipalities. Spanish interurban roads form part of one of three networks that are owned by:

- The state road network: State-owned roads managed by the General Directorate of Roads of the Ministry of Public Works. It is composed of the inter-regional roads, the accesses to main ports and airports and the roads that lead to the main border crossings. The total length in 2008 was 25,390 km.
- The regional network: roads whose function in the transport system only involves one region that is in charge of their titularity and management. Total length: 70,935 km.
- Provincial network: roads owned and managed by provincial or island councils. Total length: 68,686 km.

The last component of the national road network is the municipal roads which total approximately 490,000 km.

### The State Road Network

The state road network, which is more than 25,000 km long, meets the demand for long distance passenger and goods movements and is an essential element of domestic national and European integration.

Accounting for 15.4% of the total network of the country, in 2008 the state road network as a whole transported more than 130,000 million vehicle-km (more than 50% of all interurban road traffic), with heavy vehicle traffic accounting for 17%.

The state road network has undergone a deep transformation over the last 25 years, centered on the expansion of the high capacity network and the upgrading of the single carriageway network. Nowadays, it consists of 2,593 km of toll motorways, 7,633km of free highways, 633km of dual carriageway roads and 14,631km of conventional roads.

### The General Directorate of Roads

According to the Spanish Constitution, the State Administration has exclusive powers over general communications and public works of general interest involving more than one region. The General Directorate of Roads participates in the strategic planning, is responsible for the detailed planning and directs and coordinates the production of research and projects, the completion of construction works and the maintenance and operation activities in the state road network.

The Department is divided into Central Services and Peripheral Services.

The regional scope of most of the highway demarcations coincides with that of the autonomous regions: however, the autonomous regions of Andalusia and Castilla-León are so large that they have each been divided into two demarcations: Western and Eastern. There are no demarcations in the autonomous regions of the Balearic Islands, Canary Islands, Basque Country and Navarre because the whole network has been transferred to their respective regional governments.

Each demarcation has its own planning, projects and roadwork services, as well as maintenance and operation services and administrative services. The provincial units, which report to the pertinent demarcation, mainly perform maintenance and operation duties.

### ACEX

The Association of Infrastructure Maintenance and Exploitation (ACEX) was founded in April 1995 with a clear focus on service, and a strong commitment to both its partners and society.

ACEX's mission is to promote the development of conservation and exploitation of infrastructures in order to contribute to a better return on investment.

The core values advocated by the Association are professionalism, quality of service, technology for conservation and safety.

The 42 companies with different business volumes and who work in different fields are current partners of ACEX. These account for over 90% market share of road maintenance activity, which represent more than 1,000 million euros annually.

ACEX's main customers are the central government and regional and local administrations.

# SWITZERLAND PAVILION

# STAND 321

## The mission statement of the Federal Roads Office (FEDRO)

### Our duties

- We set foundations for the federal government's sustainable transport policy and draft, promote and coordinate appropriate measures at the national and international level.
- We draw up and take charge of the legislation on road traffic conduct, driver licensing and vehicle registration, road infrastructure and road financing.
- We are responsible for the planning, project development, construction, maintenance and operation of a safe and efficient national road network.
- We participate in traffic planning and transport policy.

### What we want

- We want to be and remain Switzerland's leading centre of competency for road traffic and individual road infrastructure.
- We help to actively shape the European development of road transport and implement it at the national level.
- We concentrate on our core tasks relating to road infrastructure, traffic and vehicles. Our products have to meet a public need.
- We influence the development of multimodal transport through active participation in the coordination bodies of the Federal Department of the Environment, Transport, Energy and Communications.
- We promote the use of new technologies for transport, roads and vehicles.
- We have consideration for cultural goods of public interest.

### Relations with customers and partners

- We strive to achieve a high degree of customer satisfaction. It is our most important guiding parameter.
- We involve our partners in our action appropriately and at an early stage.
- We create transparency by stepping up public relations work.

### Employees

- We agree on objectives according to employees' abilities, assign duties and resources and act if they are not achieved. We create a pleasant work environment.
- We maintain and foster our employees' social and professional skills through targeted training and further training.
- We promote flexible working models and provide our employees with pleasant workplaces and modern equipment and tools.

### Our values

- We are open-minded and flexible in the face of innovation.
- Our work is target-oriented, quality-conscious and efficient.
- We inform and act promptly.
- We are fair and cooperative.
- We are dependable and loyal.
- We follow the rules.

### PIARC National Committee

The PIARC National Committee is a platform for the integrated road system, promoting dialogue and transfer of know-how with professional associations and interested circles in Switzerland and abroad.

The Swiss National Committee supports its members by:

- Raising awareness of the PIARC in Switzerland (e.g. through contacts with the authorities, specialist groups, associations, hautes écoles, etc.)
- Assisting PIARC bodies in the fulfillment of their tasks
- Organizing conferences and meetings
- Drawing up and formulating proposals for the attention of international bodies
- Assisting the Swiss members of the PIARC Technical Committee
- Coordinating Switzerland's participation in the World Road Congress
- Disseminating PIARC results in Switzerland
- Encouraging road research along the strategic lines laid down by PIARC.



## UNITED STATES PAVILION

STAND 621

Come visit the United States Pavilion to learn about the latest advancements in winter service in the United States. This pavilion is sponsored by the American Association of State Highway and Transportation Officials (AASHTO), the Transportation Research Board (TRB), the Federal Highway Administration (FHWA), and the Research and Innovative Technology Administration (RITA) of the U.S. Department of Transportation.

We will demonstrate new solutions to show how Talking Cars + Thinking Highways = Sustainable Winter Services for Road Users.

This includes the Clarus Initiative, a one-stop shop for the nation's road weather observations; the Maintenance Decision Support System (MDSS), a computer-based program that takes the guess work out of treating roads for snow and ice; and the Vehicle Data Translator, a new program to turn vehicle probe data into useful information about weather and road conditions.

Information about recent publications and other products will also be available.

**ASSALONI AMERICA**

STAND 804

**ASSALONI.COM First in Road Care**

ASSALONI.COM is the industry leader for snow removal and road maintenance attachments in the European and Italian markets. The family owned and operated company has a history of developing innovative, industry-changing products. When Giovanni Assaloni started the company in 1920, his focus on quality was constant. This focus along with the ability to invent, design, and patent remarkably effective solutions has enabled the company to expand distribution to over 50 countries. In fact, to show their commitment to leadership the company changed its name from Assaloni 1920 s.r.l. to ASSALONI.COM S.p.A. They have expanded development in the U.S. market with the formation of Assaloni America LLC. This investment has streamlined operations increasing overall customer satisfaction.

ASSALONI.com continues their world market success with state of the art developments. The most recent is a new suspension system with electronic control that limits the weight of the snow clearing blades and the recent extendable telescopic blades with variable working lengths.

In 1995, ASSALONI.COM obtained ISO 9001 certification. This certification awards a production process based on the choice of high quality materials, constant technological research aimed at improving customer consignments and investments in order to offer economical and easy to use finished products.

ASSALONI.COM is the preferred partner of major vehicle manufacturers, for the development and test phases for the integration of the drive systems and interfaces.

ASSALONI.COM has developed an efficient and widespread network of after-sales service, which is offered through authorized service points.

Steady successes and innovations are the result of decades of ASSALONI.COM tradition. Stop by our booth and see why our products make us the industry leader in this market.

**BAUVAL**

STAND 19

**BAUVAL: A road to follow**

Throughout the years, we have developed expertise in various sectors of the construction field, including execution of construction work, transformation and transportation of aggregates, and manufacturing of concretes, building materials as well as conventional and low energy bituminous asphalt.

BAUVAL offers municipalities, governments and companies a wide range of industrial services such as crushing, packaging, paving and concrete and asphalt recycling.

To meet the needs of our partners and customers, we continue to develop products with high standards of performance because we believe that they deserve the very best.

**BEIJING SANTYWELL FINE  
CHEMICAL INDUSTRY CO., LTD**

STAND 809

Beijing Santywell Fine Chemical Co., Ltd. has been specializing in melting snow and the ice industry for the last 10 years. We offer more than 10 series of snow thaw agents, which can meet different customers' demands, and our runway deicing fluid and aircraft deicing fluid are new concept deicers to help improve flight safety. Annual production capability is 110,000T.

Based on the National ISO9001:2000/ISO14001:1996 Standard, our products are recommended by China Expressway Sector and China Energy-saving Society.

Santywell would like to work with more partners.

**BIBBY-STE-CROIX**

STAND 829

Bibby Ste-Croix is recognized as a leader in the conception, design, manufacturing and marketing of grey and ductile cast iron specializing in drain, waste and vent piping for commercial and residential buildings, waterworks and street castings, plus all types of OEM castings.

With a solid team of qualified people and unparalleled customer service, Bibby has become an important player in the market and has built its reputation on that commitment. The varied products that built this reputation include cast iron soil pipes and fittings for drain, waste and vent and a complete range of municipal products. We also offer a broad range of OEM products.

**BLACK CAT BLADES LTD**

STAND 733

Black Cat Blades Ltd. is an ISO9001:2000 certified manufacturer of quality cutting edges and wear parts for all makes of earthmoving equipment. Black Cat has an independent worldwide distributors' inventory and provides excellent service. Black Cat offers quality wear parts for local distribution. Products available now include teeth and adapters, fabricated and cast wear parts, half arrow shaped edges and segments for loaders, and cutting edges for all brands of earthmoving equipment. Flexible manufacturing techniques and superior service are the company's greatest strengths. The company specializes in customized solutions. All Black Cat through hardened wear parts come with a warranty against breakage during the usable life of the product.

**Application Summary JOMA 6000 – Snow Plow Blade**

The JOMA 6000 is made up of specially shaped steel segments which are inserted with Tungsten carbide wear material and suspended in a rubber matrix for mounting on snow removal equipment. The steel segment is allowed to float in the rubber under a clamping bar that is used to mount the blade to the plow.

The special features of this blade include:

- The segments conform to the road shape resulting in a cleaner road surface (less snow and ice on surface);
- The cleaner road surface results in reduced consumption of sand and salt as well as improved driving conditions, reduced costs of winter road maintenance and increased safety of roadway users;
- Reducing the consumption of salt or other chemicals used for melting ice on roadways could also have a positive impact on the environment, as less chemicals are absorbed in the ground water;
- Reduced vibration and impact allow for a longer wear life as the tungsten carbide insert is not chipped away as it is in older style steel inserted blades.
- A longer blade life reduces the costs of maintenance as well as reducing the costs of blade changes and increasing the utilization of plowing equipment;
- The cushioned effect of the blade being mounted in rubber reduces the noise and vibration as compared to traditional steel cutting edges, improving the working conditions for the plow operator as well as reducing the noise level for the public near the plow in operation.
- The reduced weight of the blade as compared to steel edges results in easier installation with reduced potential for injury to those performing the installation.

**BOSCHUNG MECATRONIC AG**

STAND 801

The Boschung group, based in Switzerland, is among the leading worldwide suppliers of vehicles, equipment and management systems for traffic surface maintenance of cities, roads, highways and airports. Our company has been developing and manufacturing superior quality products for more than 50 years and has nearly 500 employees located in offices in Switzerland, France, Germany, Austria, North America, China and Russia. With the establishment of Boschung Mecatronic Ltd. in 1978, which produces electronic and electro-mechanical winter equipment, the activities of the Boschung group have expanded. The company specializes in Road Weather information Systems (RWIS), Fixed Automated Spray Technology (FAST), Automatic Vehicle Location (AVL) and comprehensive Maintenance Management Systems.

- Marcel Boschung AG produces the company's different vehicles (sweepers, high-pressure washers, snow blowers, multi-purpose vehicles)
- Boschung Mecatronic AG specializes in ice early warning systems, Fixed Automated Spray Technology (FAST), Automatic Vehicle Location (AVL) and comprehensive Management System BORRMA-web MDSS inside.
- Küpper-Weisser GmbH, based in Germany and part of the Boschung group since 2001, specializes in state-of-the-art spreader and snow plow technology
- Boschung Airport Division specializes in airport equipment, notably our Jetbroom product range Surface Condition Management - SCM

Boschung does not simply supply isolated products, such as spreaders or sweepers, but provides a comprehensive year-round solution to your needs with the Surface Condition Management (SCM) concept. The complete Surface Condition Management (SCM) by Boschung can offer communities, towns, road authorities and airports the option of integrating and networking all their stationary and mobile systems to provide efficient co-ordination and control of their summer and winter maintenance programs.

**New Products**

- Spreaders: IMS (Intelligent Mobile Spreading), automatic and optimized thawing agent distribution using infrared sensor technology.
- Vehicles: The compact yet powerful 2.5 m3 S3 sweeper and the new version of the Pony multi-purpose vehicle.
- Road and Weather Information Systems: The GFS 3000 system with active sensors for unsurpassed accuracy in freezing point temperature measurement.
- Fixed anti-icing: The revolutionary Micro-FAST spray system using patented micro jet-sticks to increase safety and traffic flow.
- Road and Runway Management: Our comprehensive BORRMA-Web MDSS inside online solution with centralized real time data from RWIS stations, maintenance vehicles and spray systems as well as innovative forecasting tools.
- Control Unit: Our state-of-the-art Vpad on-board control unit allows for safe maintenance operations control as well as real time GPS positioning and current operation status transmission.

**BRIDGESTONE CANADA INC.**

STAND 904

Bridgestone Canada Inc. (BSCA) is a wholly owned subsidiary of Nashville-based Bridgestone Americas Inc. whose parent company, Bridgestone Corporation, is the world's largest rubber and tire company.

BSCA manufactures and markets a complete array of Bridgestone and Firestone brand tires through a coast-to-coast network of dealers, company-owned stores and distributors. On a global basis, Bridgestone Corporation has major operations in 23 countries. Its consolidated subsidiaries include 209 companies employing more than 89,000 people worldwide.

**CANADIAN SALT COMPANY**

STAND 223

The Canadian Salt Company specializes in the recovery, processing and sale of salt, and provides over 200 evaporated and rock salt products under its well-known Windsor and Mines Seleine banners.

It was in 1893, in Windsor (Ontario), when three employees of the Canadian Pacific Railway Company (C.P.R.) began a subsidiary they called The Windsor Salt Company. Within a few years, the fledgling operation was sold and became The Canadian Salt Company Limited, a leader in modern salt processing methods, and now is Canada's largest salt manufacturer.

Products made from evaporated salt (salt recovered from brine) are used in household and food products, as well as for agricultural, water softening and industrial purposes. Those made from mined rock salt are also sold to household and industrial markets for ice control for roads and highways. It will come as no surprise that government agencies are among the largest users of the company's products!

Canadian Salt Company Limited is headquartered in Pointe-Claire, Quebec and employs some 875 people in its three regional sales offices, four evaporated salt plants and three rock salt mines, as well as across its Canada-wide network of warehouses and salt storage facilities. Its distribution centers are strategically located to serve Canada's geographically dispersed markets, employing truck, rail and marine transportation.

**CD WARE TECHNOLOGIES**

STAND 531

CD Ware Technologies is a multi-discipline technology company. His expertise is recognized particularly in the sector of the road engineering and transport. CDWare thus proposes management solutions for your fleet and assets including administration, technical, logistic and organization. Also offer the possibility of controlling and optimizing the activity of your fleets and drivers.

Furthermore, in the road-engineering field we offer solutions such as AQHP software, for control and surveillance allowing managing the quality of the road works and inspecting the professional fees. The Multi-Carnet CE, a reliable field book renowned for its durability, validate and provides on-site results, compatible with all surveying instruments (total station and GPS) and the RTS localization system, that indicate the road section location, base on the MTQ positioning system.

**CENTRE DE GESTION DE L'ÉQUIPEMENT ROULANT (CGER)**

STANDS 401 – H

Managing a fleet of more than 7,500 vehicles and equipment units, the Centre de gestion de l'équipement roulant (CGER – Rolling Stock Management Centre) counts on 64 mechanical workshops across Québec to provide you with quality service wherever you are.

Our dynamic and diversified team offers you various services to support you in managing your fleet, including fleet management analysis, vehicle leasing, vehicle repair and maintenance, engineering services, vehicular telemetry and driver training.

**CHAMPION INDUSTRIAL EQUIPMENT**

STAND 304

Champion has been a leader in winter equipment for the past 30 years. The company is the exclusive distributor for Eastern Canada of Dickey-john equipment and Grey Island systems. Our company is based in Quebec City, but we also have two other branches in Canada, one in Montreal and one in Ontario, to better serve our many customers. Dickey-john makes material application controllers that use hydraulic systems for spraying abrasives on the ground. Grey Island makes GPS systems that can help manage snow removal equipment during storms.

**COMPAGNIE NORMAND LTÉE**

STANDS 201

Constantly evolving since the very beginning, Normand Co. Ltd is now celebrating 150 years of manufacturing with the Normand family's fifth generation at the helm.

Normand Co. Ltd was founded in 1857 in Saint-Pascal, Quebec. In the early years, the family-run company built wooden wheels for farm vehicles and employed only a handful of craftsmen. With the advent of industrialization at the dawn of the 20th century, the heads of the company ingeniously managed to develop a number of innovative products which made them household names and leaders in the agriculture industry.

The founder, François Normand – the great, great grandfather of the current executives – could never have guessed that his company would some day boast a 60,000-sq.ft. production area, sell products across North America and Europe, and have more than 70 employees... on the exact same site where it all started, in the heart of a small town that was then exclusively agriculture-driven.

Today, Normand Co. Ltd manufactures snow-removal and farm equipment, including nearly 70 models of snow blowers ranging from 48 to 120 inches for tractors from 16 to 375+ horsepower. They are available in three distinct series covering domestic, commercial and industrial use. Eight different models of abrasive spreaders (for road trailers, trucks and tractors) complete the lineup of snow-removal products.

Despite the high quality of the equipment, some components do wear out and must be replaced. That is why we provide quick and effective parts replacement. Our goal is to adequately meet your needs and requirements through a high-standard, customer-oriented approach.

Normand Co. Ltd, a leader in QUALITY, STURDINESS and RELIABILITY since 1857.



**CITY OF MONTRÉAL**

STANDS 22 – F

**Ville de Montréal:**

Montréal receives, on average, 225 cm of snow in the winter, has to deal with cold winter temperatures and ensure that the city's 4,200 km of streets and 6,300 km of sidewalks are safe for pedestrians and motorists.

To achieve this, the city adopted a multi-phase snow-removal policy that is reviewed periodically to meet the needs of its citizens and adapt its snow removal operations to new technological developments.

**CSP-MRA:**

Montréal's CSP-MRA is a shared services organization providing specialized products and services to the boroughs of Montréal and to other municipalities and public organizations. Products and services include: maintenance and repair of municipal vehicles, development and manufacturing of municipal products and equipment, fleet management services and training services for operators of municipal vehicles especially related to snow removal techniques.

**CITY OF QUÉBEC**

STAND 311

**A TOP-NOTCH RESPONSE TEAM**

Québec City receives an average of 316 cm of snow a year, but the precipitation record was shattered in 2007–2008 with 558 cm (the previous record was 458 cm in 1965-1966).

Despite the abundant snowfall that season, the efficiency of road transportation and public services was not unduly affected, thanks to a wealth of snow removal experience and an impressive response team. Municipal authorities were prepared for exceptional weather conditions and able to meet users' needs.

The 2007–2008 winter was in part a great opportunity to test the new snow removal policy adopted earlier in the year. The success of snow removal operations confirmed the soundness and value of the strategies developed under the policy.

**Québec City Snow Removal in Numbers**

The City of Québec is responsible for snow removal in an urban area that includes 2,550 km of streets and 1,160 km of sidewalks. The city mobilizes up to 1,300 people for each snow removal operation.

- 23.9 million m<sup>2</sup> of surface area cleared
- 5 million m<sup>3</sup> of snow removed a year
- 12 snow depots
- 70,000 tonnes of salt used each year
- Annual operating budget of C\$59 million (around €37 million)
- 144 snow removal zones including 97 maintained by city workers and 47 by contractors
- Surface area: 49% contracted (17 contractors) and 51% maintained by city workers
- City workers: 61 managers, 465 permanent employees, and 115 temporary employees

**Winter 2008: A Taste of the Future?**

Given global warming, could the winter of 2008 be an indication of winters to come? According to Ouranos, a Québec-based scientific consortium dedicated to regional climatology and climate change adaptation, we should anticipate shorter winters, but also increased snowfall per storm.

Ouranos forecasts a 10% to 30% increase in precipitation in the coming years.

**COMPASS MINERALS**

STAND 813

Compass Minerals is a leading supplier of highway deicing products, helping to keep roadways safe in the United States, Canada and the United Kingdom. The company's products include mined rock salt for roadway deicing and magnesium chloride for premium deicing and dust control.

We operate the world's largest salt mine, located in Goderich, Ontario, and the United Kingdom's largest salt mine, which is in Cheshire. The company also produces salt and other minerals from Louisiana's Cote Blanche Salt Dome and the waters of Utah's Great Salt Lake.

Additionally, Compass Minerals produces consumer deicing and water conditioning products, ingredients used in consumer and commercial foods, and other mineral-based products for consumer, agricultural and industrial applications.

The company is headquartered in Overland Park, Kan. Wholly-owned subsidiaries of Compass Minerals include North American Salt Company, Great Salt Lakes Minerals Corporation, Sifto Canada Corp. and Salt Union Ltd.

**CPAG – STOP GLISS BIO**

STAND 424

Created in 1981, CPAG S.A. is active in road flux.

CPAG S.A. manufactures and sells 100% ecological Stop Gliss Bio® non skid for roads and the pavements. International patent 2007.

Client users: road departments of municipalities, cities, states, companies etc.

**Features:**

- Only one application immediately makes the pavements and roads safer for 5 days - up to a temperature of -45°C (-49° F)
- With salt, calcium, gravel or abrasives you have to apply 2 or 3 times per day for these 5 days. That means up to 15 times more!
- Stop Gliss Bio® non-skid has been used successfully in Switzerland and France at an altitude of 1150 - 1800 meters (1312 to 5910 feet) during the winters of 2005-2010.
- It has the advantages of salt, calcium, gravel and abrasives WITHOUT their disadvantages!
- Stop Gliss Bio® non-skid is 100% ecological. It is used in winter to ensure the safe use of roads, pedestrian precincts, stairs, car-parks, walkways, tourist parks, winter resorts, entries to buildings, quays, bus stations etc.
- Stop Gliss Bio® non-skid is made from tablets of hard wood ½ x ¾ inch (10 X 18 mm) which are dried, scorched and then filled with ecological road flux heart.
- When contact is made with the ground, the rectangular tablet releases its road flux and fixes itself to the surface.

- Stop Gliss Bio® non-skid increases adherence on icy ground and packed snow.
- After thawing and re-freezing, Stop Gliss Bio® non-skid remains and floats on the surface of the ice, without being covered with ice because it is filled with road flux!
- Stop Gliss Bio® non-skid is 100% biodegradable. At the end of the winter, biodegradable residues are released naturally by the rain without blocking gutters and drains, thus reducing the need to clear out and collect it. They combine with the natural surroundings or they break up naturally. 5 times lighter than the gravel and 3 times than salt, Stop Gliss Bio® non-skid is dust-free and very easy to use.
- Stop Gliss Bio® non-skid does not freeze in salt trucks or vats when stored on the edge of roads.
- Stop Gliss Bio® non-skid does not cause damage to equipment or spreaders.

[www.stopglissbio.ch](http://www.stopglissbio.ch)

## CREIGHTON ROCK DRILL

STAND 731

Creighton Rock Drill Ltd. is a privately owned company distributing high quality leading edge products to meet the extreme demands of the aggregate, attachments, construction, drilling solutions, hardware, fluids, road maintenance and ground engaging markets.

As a valued distributor for a wide range of industry-leading and recognized manufacturers, we focus on adding value with every Creighton Rock Drill experience. We offer a long-term partnership with your business to ensure excellent sales, service and parts to meet the needs of your business.

Creighton Rock Drill Ltd. was founded in April 1966 by D.J. (Jim) Creighton and his wife Evelyn. At the time, Jim and Evelyn were working out of their family home and managed to run the business successfully while raising a family of seven. The children helped their parents in any way they could, answering the phone, taking orders and shipping products. After completing their post secondary educations, six out of the seven children joined the business and to this day continue to work together making Creighton Rock Drill Ltd. a valued supplier within the industry.

Never forgetting where we started, we still have the same focus today. We depend and look for valued partnerships with industry leading and recognized manufacturers which allow us to meet and exceed the needs of our customers by supplying high quality products. We have found that long-term partnerships with manufacturer, distributor and customer are a winning solution.

Creighton Rock Drill Ltd. has an excellent line up of road maintenance products built on our growing variety of snow plowing solutions. Regardless of your road maintenance conditions, we have a variety of solutions to help you get the job done. Call today for your solution specialist.

- Joma 6000
- P300 System
- Swedish 500/600 HBR Blue Steel Snow Plow Blades
- Black Cat Blades Cast High Wear Wing and Plow Segments
- Kennametal I.C.E. Blades
- Plow Guards
- Jax Snow Plow Grease

## DESSAU INC.

STAND 308

Founded in 1957, Dessau is one of Canada's largest engineering-construction firms, active in both domestic and international markets.

Dessau has acquired state-of-the-art expertise in a wide range of engineering and construction disciplines, allowing it to deliver on its commitment to offering clients a one-stop shop of professional services. The outstanding know-how of its experts allows them to plan, design, build and manage infrastructure for clients in both the private and public sectors. Its main fields of activities include: urban planning and landscape architecture, engineering (buildings, urban development, environment, energy, telecommunications and security, transportation), geotechnical engineering and materials, project management and construction, and operations.

## EDDYNET INC.

STAND 204

Workshop specializing in the conception of floating mechanic sweeper structure since 1996. One of the great advantage of Eddynet products is that they can be mounted anywhere on any type of equipment. It is Eddynet's priority to improve the range, the versatility as well as the maintenance of its product line.

## EPOKE A/S

STANDS 825 – L

Epoke A/S is one of the leading manufacturers in Europe in the field of winter road maintenance. In particular, Epoke's pioneer achievements in the development of granular spreaders featuring pre-wetting and combination spreaders for mixing of thawing agents contributed to a reduction of deicer chemical consumption to an internationally acceptable level.

All over Europe and North America, airports are using our products. A wide net of distributors ensures that service and parts are nearby, no matter where the machine is operating.

Efficient and robust design of the machines combined with a highly efficient anti-rust treatment help ensure consistent operation, a long life, and low lifetime economy of our products.

## ESCO EUROPEAN SALT COMPANY

STAND 320

esco – european salt company is Europe's largest producer of salt. The company draws upon more than 140 years of experience in the mining and processing of salt of its founder companies, K+S Aktiengesellschaft and Solvay. Today, esco belongs completely to the K+S Group.

The demands of our customers are as varied as the uses for salt put. From Scandinavia, via Central Europe to the Mediterranean, esco is widely represented and always very close to its customers. Our production sites are backed by any extensive network of warehouses which ensure our market presence.

From a total of 19 production and distribution sites, esco delivers a comprehensive range of products for all imaginable uses, in and outside Europe. The product range includes rock salt, evaporated salt, sea salt and brine. Their quality, granulation and processing as well as packaging are fully tailored to the customer requirements.

The high reserve capacity of our mines and their proximity to consumer centres ensure that deliveries can also be made to customers when demand is exceptionally high. Apart from excellent product quality, we guarantee to our customers a rapid and reliable delivery at any time, and always friendly and efficient service.

esco – we set the European standard for excellence in salt

## EVEREST EQUIPMENT

STAND 928

A comprehensive range of innovative, top-quality heavy-duty snow and ice control equipment backed by the industry's strongest dealer network, to help our customers maintain safe, efficient roads and runways.

Our reputation as the industry's most customer-oriented and responsive company has been earned by consistent excellence in performance, innovation and customer service. We utilize state-of-the-art production and design technologies in modern manufacturing facilities. Our greatest attributes though, are the skills and values of our employees.

## G. LUFFT MESS - UND REGELTECHNIK GMBH

STAND 805

G. LUFFT Mess- und Regeltechnik has been dealing with the production of climatological measuring equipment since it was founded by Gotthilf Lufft in 1881.

The precision workmanship of highly skilled specialists has enabled the LUFFT label to be known and the products to be purchased worldwide. LUFFT products and equipment can be found wherever atmospheric pressure, temperature, relative humidity and other environmental factors need to be measured or recorded.

To keep pace with the market and the modern technologies, electronic devices have been developed parallel to the mechanical products according to the basic principle "Tradition and Innovation".

We are certified under DIN EN ISO 9001.

## GILETTA S.P.A.

STAND 213

Giletta is a leading Italian producer of special equipment for spreading, deicing and cleaning road surfaces.

The company, founded in 1950, has been the leader of a major trade expansion that has accelerated in recent years with the joining of the multinational Bucher group.

Today Giletta, with two production plants in Italy and France, is present in more than 35 countries in the world.

Thanks to the experience acquired in more than 50 years of business, we can provide for a complete range of our latest generation products that meet high technological and quality standards, as follows:

- Salt spreaders like the UniQa model, equipped with an innovative spreading group to achieve a perfect and constant solid-liquid mixing.
- Deicing and liquid solution spreaders with automatic dosage control to ensure constant spraying width according to the vehicle speed and dosage.
- Snow plow with hydraulically interchangeable rubber and steel cutting edge to obtain the best performances in all snow and road surface conditions.
- Electronic devices for fully-automated control of spreading parameters and operations.
- Software systems for real-time management of operational vehicles, through GPS control.

Our different types of equipment are produced following the "Built to Last" philosophy, with signal sturdiness and reliability, making them suitable for poor weather conditions and earning them recognition as leaders in the market.

## GOLDER ASSOCIÉS

STAND 324

At Golder Associates we strive to be the most respected global group specializing in ground engineering and environmental services.

Employee owned since our formation in 1960, we have created a unique culture with pride in ownership, resulting in long-term organizational stability.

Golder professionals take the time to gain an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth, with employees who operate from offices located throughout Africa, Asia, Australasia, Europe, North America and South America.

## GREY ISLAND SYSTEMS INTERNATIONAL INC.

STAND 302

Government-focused GPS/AVL applications – pure and simple – with a specialization in winter road maintenance operations tracking. Grey Island Systems, now part of WebTech, introduced North America's first user of live Web-based GPS/AVL for tracking winter road applications, the City of Saskatoon's Public Works Department, in 1999.

Since then, Grey Island's government client base has expanded to over 300 state, provincial and local government operations. The highly customizable InterFleet brand provides live screen tracking (typically at 100m/10 second updates for block level local government coverage) and has the widest set of integrations to all major spreader controllers and sensors in the market. Winter operations 'Trip Reports' that keep track of per trip totals lbs/kg spreading material used (and type), application rates, use of pre-wet and anti-icing, miles/km plowed/salted/pre-treated at the trip(s) summary level. These reports are supported by the 100 metre tracking detail reporting level.

The company has introduced innovations such as:

- Whereismysnowplow.com site providing the public with live information on local road clearing operations;
- Live Route Completion providing supervisors with live status on progress on percent completed of primary and secondary snow clearing routes;
- Contractor Billing Application is a customized application developed for Alberta Transportation and its highway maintenance contractors to use GPS/AVL data combined with a billing switch compared daily to provincial road network data to automate billable work tracking.

The City of Quebec is the first Canadian municipality to implement InterFleet GPS/AVL as an in-house system. InterFleet will be used to track winter operations as well as provide vehicle maintenance data to ensure ecologically sound management of fleet resources.

## ICECHECK INSTRUMENTS

STAND 932

Who patrols highways at 3 o'clock in the morning, checking the road surface for ice? Who drives that truck with the extra wheel? That would be us, the "Friction People".

Slipperiness (absence of friction) is a key indicator of accident likelihood in the winter. By measuring slipperiness, IceChek can prioritize the areas which need abrasives and anti-icing chemicals. IceChek equipment can be calibrated to correspond to decelerometer tests. Decelerometer (stopping distance) tests are one of the best methods of evaluating the accuracy of friction testing; they provide an independent reliable standard.

Since 2003 our company has been in the forefront of efforts to introduce winter road surface friction testing to Canadian jurisdictions. The patrol vehicles of highway inspectors are usually light trucks. Why are these trucks not equipped with friction-testing equipment to record objective data? The additional cost of installing friction testing is small compared to the benefits of always sending out the sander trucks to where they are most needed.

Accuracy at higher speeds is the decisive feature of IceChek equipment. The IceChek friction tester is functional at all speeds up to the legal speed limit on highways. It is not designed for accurate friction testing on dry paved surfaces but for use on adhering ice or combinations of snow, slush and ice. The equipment is economically viable since the test tire will last 2000 km on dry pavement and much longer on ice and snow. The system is patented (United States Patent 6928857; patent pending in Canada).

Another IceChek innovation is GPS moving chart software. Record the friction values in a file and return to your starting point. Save the first file, and begin a new file. Then follow the same route. If you perform this simple test of repeatability, you will be amazed to see an almost identical graph of slipperiness. In addition to comparing the graphs, you can also compare the numerical values for slipperiness in the saved file with the current values (the live data).

Please visit the IceChek Instruments booth at the exhibition to learn more about winter road friction testing. To contact us, call 1-780-444-8502 or 1-780-907-0148. Or email us at [winterdriving@icechek.com](mailto:winterdriving@icechek.com)

## INDUSTRIES MAILHOT

STAND 21

Industries Mailhot designs and manufactures nitrided hydraulic cylinders used on mobile equipment that must operate in harsh environments (construction, waste collection and recycling, winter road maintenance and mining equipment). Mailhot products are used in North and South America as well as in Europe.

Industries Mailhot's nitrided hydraulic cylinders are used by several manufacturers of equipment for winter road maintenance in Canada and the United States. The nitrided cylinders are frequently specified in the tenders for winter road maintenance equipments.

Industries Mailhot's hydraulic rod and telescopic cylinders are recognized as the most resistant to corrosion and wear in the industry. This performance is achieved through the salt bath nitriding treatment which is part of Industries Mailhot's manufacturing process. This process, used for almost 20 years on Industries Mailhot's cylinders, produces corrosion resistance five (5) times higher than hard chrome plating (ASTM B-117). Nitrided steels processed in salts bath are easily identifiable because of the glossy black appearance that is achieved; this is the trademark of Mailhot cylinders.

The use of abrasive products and various fluxes in winter road maintenance creates variable operating conditions for hydraulic cylinders. Hydraulic cylinder technology must keep up with this changing environment. Industries Mailhot continues to expand its product line to provide technologies that meet the requirements of its customers, manufacturers and end-users.



## INNOVATIVE SURFACE SOLUTIONS CANADA INC.

STAND 209

Innovative Surface Solutions Canada (ISSC), a Canadian corporation, and partner EnviroTech Services Group (ETS) headquartered in Greeley, Colorado, are the leading manufacturer, distributor and marketer of surface maintenance products in North America.

We provide a high performance cold mix as well as a complete line of dust control and winter ice control products, including PNS approved magnesium and calcium chlorides.

## INTERNATIONAL SALT COMPANY

STAND 322

International Salt is one of the leading producers and suppliers of premium bulk and packaged ice-melt products in the United States. The company, in conjunction with SPL [www.spl.com](http://www.spl.com), mines salt from Chile's Tarapaca Salt Flat, a reserve projected to meet worldwide demand for salt for the next 5,000 years. Additional company-affiliated operations, including Saline Diamante Branco, one of Latin America's leading producers of solar and evaporated salt products, and Emprepar S.A, an industry-leading, ocean-going shipping organization, enable International Salt to mine, process, package, ship, transport, and distribute salt from strategically situated salt service centers along the East Coast.

Customers, including federal, state, local and municipal government organizations; commercial retailers; snow and landscape maintenance providers; property facility managers; and consumers, benefit from International Salt's comprehensive and strategic organizational and operational structure knowing that ample supplies of premium salt products are available consistently, efficiently, and cost-effectively.

International Salt's comprehensive selection of bulk and packaged deicing salt products helps keep roadways, walkways, and parking structures safe for travel during winter's inclement weather. From economical and efficient Halite Rock Salt, to specially blended Blizzard Wizard® Ice Melt, to heat-generating C-FORCE® Calcium Chloride Pellets and Flakes, International Salt's selection of environmentally friendly deicing salt products provides winter maintenance solutions to meet a variety of needs.

International Salt, headquartered in Clarks Summit, Pa., is a member of the K+S group [www.k-plus-s.com](http://www.k-plus-s.com), one of the world's leading manufacturers of specialty and traditional fertilizers, plant care and salt products. The company is exhibiting at PIARC (Stand number 322) in conjunction with the following K+S group companies: Windsor The Canadian Salt Company and Mines Seleine (Stand number 223), esco european salt company (Stand number 320); and, Morton Salt Company (Stand number 221). [www.internationalsalt.com](http://www.internationalsalt.com)

## ISAAC INSTRUMENTS

STAND 832

Vehicle Telemetry by ISAAC Instruments allows for continuous improvement of snow removal activities.

Cost reductions are achieved through improved economy of fuel and abrasive materials, a reduction in maintenance and greenhouse gas emissions, improved security through continual driver monitoring and training, and a better selection of equipment, specifications and routes.

Vehicle Telemetry allows real-time monitoring of snow removal operations. To supervise and manage winter crises, it is necessary to have an overview of the distribution of work and contribution of resources in the most efficient and secure way possible.

ISAAC Instruments' post-processed Vehicle Telemetry optimizes management of the performance and efficiency of drivers and vehicles. It enables the precise reconstruction of an event or an accident. It also helps with handling complaints, questions and comments about snow removal operations.

ISAAC Instruments' Vehicle Telemetry can be adapted to every vehicle in a snow removal fleet.

## J.A. LARUE INC.

STANDS 23 – A

Founded in 1973, we began activities in the construction and snow removal industries. The company expanded to include forestry development as a general contractor, including forestry road construction and lumber transportation.

The direction of the company changed in the mid-1980s towards heavy equipment and municipal equipment repairs, more specifically, industrial snow blowers. Having specialized in the repair of Canadian snow blower products during the 80s and 90s, the company directed its energy towards rebuilding and modernizing these machines to improve operator comfort, safety and equipment reliability. Applying modern engineering practices to improve the ergonomics and making use of the best available and most commonly used industrial components assured that these machines were the easiest to service in the industry.

### Operator safety is at the core of our mission statement.

In 1999, after years of refurbishing snow blowers for numerous customers across North America, this led us to the obvious progression of designing and building our own snow blowers. In that same year, the company diversified its activities acquiring Les Équipements Dorval in Montreal, a company that specialized in the distribution and repair of LeeBoy and Rosco asphalt maintenance equipment for the province of Quebec and Atlantic Canada, adding LeeBoy distribution in 2008 for the province of Ontario. Also in 2008, J.A. Larue acquired the distributorship for the industry-leading Dynapac asphalt and road building products for the province of Quebec and then for the province of Ontario in 2009. This successive growth created the perfect opportunity for J.A. Larue to expand our presence with our primary snow blower product line the Ontario market. J.A. Larue's corporate headquarters and manufacturing facility is located in Quebec City and has sales parts & service facilities in Montreal, Laval, Quebec City (QC), Moncton (NB) and Mississauga, (ON).

With more than 10 snow blower models, J.A. Larue has become an industry-leading manufacturer of industrial and municipal/airport-type snow blowers.

The company has more than 50 employees in four departments: Sales, Service, Engineering and Administration. [www.jalarue.com](http://www.jalarue.com)

## KENNAMETAL INC.

STAND 705

Kennametal is the industry leader in the manufacture of tungsten carbide wear parts, including snowplow blades, grader blades and accessories. Kennametal manufactures a wide range of blades to fit any make or model of plow. Kennametal recently introduced "I.C.E." series blades that feature an "Isolated Carbide Edge" to handle greater impact than traditional carbide blades. Kennametal also offers snowplow shoes manufactured using our exclusive "KenCast" technology for unbeatable wear life and value. Kennametal is also the U.S. distributor for a variety of unique blade designs manufactured by Küper GmbH & Co. KG. Küper products utilize a combination of steel, rubber and tungsten carbide or ceramic to provide unsurpassed wear life, while remaining flexible for reduced noise and vibration and to adapt to the contours of the road surface.

## KWH PIPE

STAND 533

KWH Pipe manufactures winter hazards proof culverts up to 132" (3305 mm) ID.

The design of sustainable durable culverts needs to be reevaluated by all designers to offset what we now know about traditional material like concrete and metal pipes problems. The HDPE profile wall pipes offer resistance to joints separation when water freezes in the culverts, provides superior resistance to salts and abrasive material and is designed to exceed 100 years of useful life.

## MACHINERIES PRONOVOST INC.

STAND 831

Les Machineries Pronovost Inc. has been a manufacturer of snow removal equipment since 1969. The strong creative spirit of the company team has resulted in the development of a wide array of innovative and efficient products that meet the needs of a diversified clientele. In 2001, Pronovost acquired Les Équipements Hardy Inc. in order to diversify its product line.

We produce more than 50 models of snow blowers adapted to the needs of any individual, commercial or industrial user. Many of the Pronovost snow blowers are designed for agricultural tractors from 18 HP to 300 HP and are between 54" and 104" wide.

The high performance industrial snow blowers include models for truck loading, for use on large surfaces or in snow dumps. Others are developed for sidewalk snow removal and adapt to various carrier vehicles. They meet the needs of cities and towns requiring a sturdy unit that can get into tight spots.

In the commercial range of snow blowers, snow removal contractors will find the snow blowers appropriate for their needs. This category also includes the PXPL group of snow blowers developed by Pronovost. The X-PRO blade of this innovative patented model allows operators to blow snow while travelling forward as well as

while backing up and collecting the snow accumulation close to obstacles such as buildings, cars and fences. The efficiency of PXPL snow blowers significantly increases productivity.

PUMA snow blowers are models for the individual user (home, farm or estate).

The LYNX series is lightweight and designed for the home owner.

A wide range of components such as variety of scraper blades and skid shoes allows users to select the most appropriate equipment according to their particular needs.

The front mounted 3 points hitch allows operators to mount snow blowers in front of the tractor and can also be used to support equipment such as scrapers, sweepers, brushes, mowers and delimiters.

The Salt and Sand bucket spreader can be installed on a front end loader or on a 3 point hitch. One tool lets you load and apply the abrasive material, sand and salt.

Les Machineries Pronovost Inc. has acquired a solid reputation over the years based on the reliability and high quality of its products. A visit to our Web site [www.pronovost.qc.ca](http://www.pronovost.qc.ca) will give you a good idea of what we offer you and you can watch videos of several products in action!

## MACHINERIES TENCO (CDN) LTÉE

STANDS 16 – E

Established in 1976, Tenco Machinery (CDN) Ltd's production is orientated towards snow removal and road and airport runway deicing. Supported by well established distributors in Canada and in the United States, Tenco owns distribution centers in the States of Maine, Vermont and New York, in Quebec City, Chicoutimi, St. Thomas in Ontario as well as a parts depot in Montréal. Sixty percent of the company's sales are generated in Canada and 40% in the United States. Moreover, assisted by a distributor network, Tenco also sells equipment in Chile and in Argentina as well as in China where eight (8) new industrial snow blowers have just been sold.

Located in St-Valérien-de-Milton, Tenco Machinery (CDN) Ltd, designs and manufactures snow removal equipment, abrasive hopper spreaders, attachment for trucks, detachable snow blowers and runway sweepers.

**MEIREN ENGINEERING**

STANDS 811 – C

Meiren Engineering was founded in 2003 and its main area of activity comprises the development and sale of snow plows. We belong to the Meiteks Group, along with the two production companies where all of the products sold under the Meiren trademark are manufactured. Our goal is to create new and innovative solutions that facilitate snow removal in all weather conditions – solutions that ensure the best quality in snow removal and help operators save costs. One of our main objectives is to also improve the working environment for drivers. In order to reduce the noise of the plow that is audible in the driver's cab, we have invested considerable resources in product development in recent years and this has yielded excellent results. As a young team we keep looking to the future, because we want to remain one step ahead.

Meiren is the fastest-growing brand among snow plow manufacturers in Northern Europe. We have achieved success in the Baltic States and on the Scandinavian markets. Our success is based on innovative solutions, high quality and affordable price levels. Our wide product range offers options for the performance of a wide variety of tasks. Meiren's snow plows can be used on highways, city streets and airfields, and in small parks and parking lots. Close cooperation with customers and consideration for their wishes in product development has resulted in snow plows that road maintenance companies need – they are reliable, economical and easy to use. Customer satisfaction is the greatest recognition we can receive.

Meiren is always willing to cooperate on new markets. We are able to manufacture at least 50 large road snow plows a month without the need for additional investment in production activities, although our maximum production capacity is currently up to 100 snow plows a month. If you, specialize in this area in your country, please do not hesitate to contact us and join in. Snow is our business!

**METAL PLESS INC.**

STAND 202

Métal Pless has been making snow removal equipments since 1976. With expertise in variable geometry snow plows. Métal Pless is No. 1 in innovation to ensure customer satisfaction. We make superior quality products for durable equipment. The variable geometry snow plows that we make are versatile, which allows operators to do different maneuvers to get work done quickly while ensuring incomparable quality work.

**MOBILE-BLADE**

STAND 529

Guy Hamel has been working for over 12 years in the snow removal business. His need for a better tool gave birth to the mobile blade.

With its unique patented design, the mobile blade adjusts to irregular road surfaces. The mobile blade works just as well on newly paved roads as on old deteriorated ones, since it adjusts to the road.

The mobile blade has been tested over many years. It is a double carbide blade made up of six independent sections. Each section has its own spring that helps the blade go up and down (about one inch).

**Advantages of the mobile blade:**

- Required level of service reached faster
- Up to 25% less salt necessary
- Higher truck speed, thus saving time
- Longer blade life and uniform wear
- Uniform distribution of the weight and less overheating
- Less frequent and faster blade replacement (one section at a time is replaced)
- Less vibration, and thus greater comfort for the driver

[www.mobile-blade.com](http://www.mobile-blade.com)

**MORTON SALT**

STAND 221

Morton Salt, headquartered in Chicago, Illinois since 1848 is the leading North American supplier of salt products serving the premium branded consumer, industrial and highway deicing markets.

Its consumer products include branded table and specialty salts, water conditioning salt products and blended ice melt products. In the United States, Morton salt products are marketed under two of the nation's most recognizable trademarks, the Morton Umbrella Girl ® and the "When it Rains it Pours" ® slogan. In Canada, Morton's salt products are sold under the Windsor® trademark.

Industrial products include specialty and common grade salt products used in a broad range of industrial applications in the food-processing, healthcare, chemical and oil and gas industries. The company sells its industrial salt products across multiple industries to a diverse range of market-leading companies.

Ice Control products include salt sold in bulk form to municipalities, government departments of transportation and roadway maintenance contractors in both the United States and Canada for use on highways and roadways as an economical and effective deicing product during the winter season.

Morton Salt employs more than 2,800 employees in its mining, manufacturing, and sales facilities located throughout North America.

**NORDIK BLADES**

STAND 20

Nordik Blades is a division specialized in the manufacturing of replacement parts for snow plows, snow blowers, loaders, etc. These parts include carbide blades, carbide plow shoes and carbide tips. Among the many strengths of the company, they are most recognized for their superior precision, the quality of their products and the expertise of their team leaders. Bringing together under the same roof several different types of machines and equipment, the company is able to meet a multitude of needs, such as precision machining, plasma cuts and all types of welding production.

**OLOFSFORS AB**

STAND 729

**OLOFSFORS Quality since 1762**

Olofsfors AB works in developing, manufacturing and sales of wear steel for construction machines.

The P300 System from Olofsfors never stops amazing its users. For more than 25 years, the Olofsfors self sharpening edge has conquered treacherous ice, compacted snow and washboard gravel roads.

The Olofsfors leading edge technology gives you extremely hard steel with a small contact area to the ground, hence providing optimal cutting capabilities, even under the most severe conditions. When you use the P300 system with little down pressure and a cutting angle between 55-70 degrees, the machine will be easier to maneuver. You will see reductions in fuel costs, driver fatigue, tire and grader wear, adding value to your operation

**ONSPOT AUTOMATIC TIRE CHAINS**

STAND 701

Onspot Automatic Tire Chains allow the operator to engage and disengage tire chains at the flip of a dashboard switch without stopping, to enhance traction and reduce braking distance on snow and ice in forward or reverse. Onspots are available as a factory option from over 150 builders or for retrofit of existing vehicles from ½ ton to Class 8 tractor trailers.

**OSSIAN INC.**

STAND 828

Ossian Inc. has been a developer and manufacturer of high performance ice melters for over 30 years. With products driven by innovation rather than salt prices, Ossian has pioneered and patented many of the products that have redefined the way roads and sidewalks are maintained. With patents ranging from the first and only vegetation-positive ice melter to the next generation of bio-based liquids, Ossian has pushed the industry in technology, and significantly helped reduce salt use on our roads. Based in the heart of the U.S. Snowbelt, Ossian operates the most active private deicing lab in the United States, and develops and manufactures products distributed throughout North America and in Scandinavia. Ossian's bio-based liquid products are distributed exclusively in Canada by Eco-Solutions. Please visit us online at: [www.ossian.com](http://www.ossian.com)

**PHIL LAROCHELLE ÉQUIPEMENT INC.**

STAND 18

**PHIL LAROCHELLE EQUIPEMENT INC. - A leader in truck equipment manufacturing since 1956.**

Phil Larochelle Équipement Inc. manufactures high quality specialized equipment for trucks. The company operates in two distinct areas of activities: the manufacturing of snow and ice removal equipment and construction oriented semi-dump trailers.

Our design and engineering team works using the latest CAD technology and develops equipment that is renowned for their modular, modern and optimized design. With flexible methods of engineering and a wide variety of options available, our capabilities allow us to offer the integration of a customized solution that meets each customer's specifications.

**Work of Heart and Steel: A passion driven quest from one generation to the next**

Phil Larochelle Equipement Inc. is a Quebec-based third generation owned company that traces its roots back to 1932 as a small family garage. In the 19550s, the company shifted its activities to truck repair and distribution of dump bodies and hydraulic hoists.

It was in 1956 that Phil Larochelle Équipement Inc was founded and began to specialize in truck equipment manufacturing and parts distribution.

Sold under the "Larochelle" trademark, many products were then introduced such as an all-steel dump body and hydraulic hoist line designed for heavy road construction along with a line of "V-box" hopper spreaders designed for winter road maintenance. Similarly, the Larochelle semi-dump trailer appeared for the first time in the 1970s. Just like the Larochelle snow & ice control equipment, this innovative product greatly contributed to the growth and strong reputation that the company still enjoys today.

In the late 1970s and 1980s, the company began to experience its first major period of growth in its history with the founder's son, Bernard, taking the leadership over his father, which then paved the way for Phil Larochelle Équipement Inc. to become an industry leader in Canada and the United States. Today, the additional involvement and commitment of the third generation team is taking the company to a new level of growth through the introduction of a new vision and wider range of products.

**A Statement of Quality**

ISO 9001 certified, Phil Larochelle Équipement Inc. is also renowned for its know-how and craftsmanship in truck equipment installation. The company's dedication to innovation, long-term vision, and commitment to its customers, passed down from generation to generation, make Phil Larochelle Équipement Inc. a leader in the truck equipment industry offering a solid and reputable experience second to none.



**PNS TECH**

STAND 628

PNS Tech is a leading manufacturer of replacement parts for snow removal/ice control equipments (plows, snow blowers, etc.), road maintenance (grader, street sweeper, etc.) and agricultural machinery (plows, planters, cultivator, chisel, harrow, etc.). With 35 years of expertise in the North American market, PNS Tech is a reliable source of 'value added' wear parts (carbide inserted). Please visit our Web site for more details: [www.pns-ltd.com](http://www.pns-ltd.com)

**QUIXOTE TRANSPORTATION TECHNOLOGIES, INC.**

STAND 724

Quixote Transportation Technologies, Inc. (QTT) has a long tradition of leadership and innovation in the transportation industry – nearly 40 years of service! QTT has a broad range of capabilities, and is your total solution provider for ITS equipment and integration, especially road, weather, traffic and advisory radio systems. We also offer custom ITS solutions for projects that require customized structure and coordination. QTT is continually upgrading services, product offerings and performance levels in order to provide the highest level of value to our customers, allowing them to effectively manage their roadways and keep travelers safe.

Right now, QTT is enhancing highway advisory radio technologies and researching new ways to communicate information to drivers. We are advancing Road / Runway Weather Information Systems (RWIS) with powerful computer platforms, user-friendly software, non-intrusive roadway monitoring, and new, innovative sensor technologies, such as combined weather and traffic sensors, air quality monitoring and mobile weather sensors. In addition, QTT supplies fixed anti-icing spray systems for bridges, tunnels and other trouble spots that require quick application of chemicals. Further, we are improving traffic sensing equipment with wireless permanent and portable analysis systems, and offering customers quick and easy methods for distance measuring.

QTT backs our products and services with full customer support, enabling customers to get the most out of their ITS technologies.

ITS technologies have proven to reduce accidents and keep traffic moving smoothly; QTT is at the forefront of ensuring transportation professionals around the world have the solutions they need to provide a safe traveling environment.

**R.P.M. TECH INC.**

STANDS 930 – M

R.P.M. Tech is a North American leader in the design, manufacture, maintenance and distribution of industrial snow blowers, multi-functional utility vehicles and heavy equipment for maintenance of roads, railways, subways and airport runways, and of custom-engineered on/off highway vehicles, for domestic and international markets.

In addition to manufacturing and distributing products mentioned above, the company provides its customers with replacement parts, service maintenance and refurbishment required for such equipment. The company also exclusively distributes all parts for all products manufactured by the company and its subsidiaries, and through them, also distributes new original parts (OEM) and rebuilt components for maintenance of heavy vehicles.

R.P.M. Tech has been ISO certified since 1997, and recently obtained the ISO 9001:2008 certification in all its branches located in the Province of Quebec.

The company offers its customers all emergency repair service and parts supply, 7 days a week, 24 hours a day.

**SCHMIDT WINTERDIENST - UND KOMMUNALTECHNIK GMBH**

STAND 821

**Aebi Schmidt**

In April 2007 the shareholders of the Aebi Group (Burgdorf, CH) and the Schmidt Group (St. Blasien, D) approved a merger of their companies. The majority shareholder of the new Group is Peter Spuhler.

Schmidt, with production locations in Germany, Holland and Poland, is a leader in winter services engineering (snow clearing machines, snow plows and spreaders), in summer services engineering (road sweepers, public works machines and road repair vehicles), in airport engineering (snow clearance, combating ice and sweeping technology), in railway engineering (snow clearing) and in vehicle engineering (electronics and software, equipment and hydraulics and vehicle conversions).

Aebi (Burgdorf) is the leading manufacturer of specialist vehicles for the mechanized cultivation and maintenance of extremely steep slopes and particularly demanding terrain, as well as for the cleaning/clearing of traffic infrastructure in all seasons of the year.

**SEBCI INC.**

STAND 211

SEBCI Inc. has been providing road care products (deicers and dust suppressants) for over 25 years. As the exclusive distributor of liquid magnesium chloride, liquid MAG, in Québec for 5 years, SEBCI Inc. has marketed, transported and spread liquid MAG for municipalities, the forest and mining industries, etc. SEBCI Inc. also offers products similar to magnesium chloride; in solid form, MAG flakes and calcium chloride, Selec 85.

SEBCI Inc. is also a Québec leader in the promotion and marketing of innovative products and techniques for winter road care. Since last winter, jointly with the MTQ, SEBCI has been participating in trials for the application of liquid deicing agents as a preventive treatment (anti-icing technique). In 2007, SEBCI introduced another innovation with a product used for the pre-treatment of salt which would allow performance optimization of its deicing salt, Bleu Fuzion.

## SNOW DRAGON®

STAND 910

Snow Dragon® is a Cleveland Ohio based manufacturing firm specializing in building and designing energy-efficient, affordable snow-melting equipment for customers with space limitations, congestion issues or high security requirements. Snow Dragon Snowmelters will eliminate accumulated snow, even in the toughest of conditions.

To succeed in the snow removal industry, equipment and technology must adapt to changes in both societal and market environments. That's just what Snow Dragon® has done! Snow Dragon revolutionizes the snow removal process by eliminating accumulated snow cheaper and faster, with savings of 50%-60% over typical hauling and trucking.

While simple in design, Snow Dragon® offers a cost-effective and low-maintenance alternative in snow removal. Snow and ice are deposited in a melting hopper located above a hot water bath that incorporates heat exchanger burner tubes. Burners fire into the burner tubes, creating a burner boiler type system heating the water. A spray system is incorporated in the melting hopper, where warm water is sprayed over the snow to promote further melting. As snow is dumped into the melting hopper and the water level rises, standpipes within the unit skim out particles. Petroleum products float on top of the water while sand and sediment fall to the bottom. The standpipes pull water from the middle, draining the overflow, and making the water that leaves the melter cleaner than the snow that was dumped in.

Snow Dragon® offers a variety of portable melters for the end user that range from 30 tons to 180 tons/hr. The SND900 offers users a convenient way of moving the melter from site to site, while the SND1800 is designed for big commercial sites and hospitals, and is the ideal configuration for municipalities and transportation ministries. The SND5400 is designed primarily for the airport market and snow dumps.

Overall, Snow Dragon® offers you the best tool for managing your snow removal in the 21<sup>st</sup> century. While the usual method of removing snow has been trucking, hauling and dumping, many factors are making this option more problematic, including security issues, environmental restrictions and increasing trucking costs. The Snow Dragon® is a sure way to minimize costs and deal with these issues, and at the same time speed up the snow removal process.

## SNOW REMOVAL SYSTEMS

STAND 630

Snow Removal Systems Inc. (SRS), founded in 2000 and headquartered in Bellingham Washington, designs and manufactures portable/tow-behind snow melters, mobile or truck-mounted snow melters, and stationary in-ground melters for airport and municipal applications. Our patented (#6,904,708) snow melt process is the single most effective and environmentally friendly method available to the global marketplace.

Our HTS (Heat Transfer System), combined with extreme melt tank water circulation and agitation, gives end users optimal performance in snow melting technology and efficiency. This is a closed loop system, preventing any exhaust carbon or particulates from escaping into the byproduct melt water as it exits the melt tank, which is inherent in submerged combustion melt methods. The SRS chosen melt process assures end users that they are not adding pollutants to the melt water and into the existing storm drain system. The end result is that the HTS application is absolutely the cleanest available process for melting snow.

In January of 2009, Larry Cunningham of Red Deer, AB joined SRS to form SRSC (Snow Removal Systems Canada). Mr. Cunningham, President of SRSC, has an extensive background in the petroleum industry, developing and working with heated water-related products in extreme winter climates. He is very innovative and brings an enormous amount of expertise in developing new products to the customers of SRS, SRSC and SRS Europe.

Snow Removal Systems is the only snow melter manufacturer that assists operators with mechanical clean-out devices. These devices consist of hydraulic lifting floors and tilting melt tanks used during the necessary clean-out of the snow dump tank at the end of a normal shift. See our videos for details.

In June of 2009, SRS formed SRS Europe, with Mr. Rui Oliveira of Glory Road Solutions, Engineering and Consulting, Ltd., Lisbon, Portugal. Mr. Oliveira and his associates will spearhead customer development throughout the European markets for years to come.

Snow Removal Systems follows a philosophy of innovation and continuous improvement. We strive to not only meet, but exceed our customers' expectations.

## SOMAVRAC (C.C.) INC.

STAND 225

Somavrac (c.c.) inc. is the largest distributor of liquid and solid calcium chloride in Canada. Over the years, Somavrac (c.c.) inc., a Québec business, has adapted itself to different market needs by providing quality products and services. The company has recently redefined its market standards with Xtra85®, a calcium chloride in flakes with a 10% concentration increase over the former 77%.

**SÛRETÉ DU QUÉBEC****STAND 17**

The Sûreté du Québec, the province's police force, is a major partner in ensuring the safety of Québec's transportation networks. It has exclusive jurisdiction over highways pursuant to the Highway Safety Code and its regulations, including the regulation governing the use of tires designed specifically for winter driving.

For nearly 30 years, the Sûreté du Québec has had a constantly updated emergency plan for intervention during snowstorms with a view to being present for the closing and opening of roads, for action by various organizations and for liaison with the media in order to make the public aware that automobile travel should not be undertaken.

**SWEDISH ROAD ADMINISTRATION****STAND Y**

Shown here is a typical Swedish plow truck owned by Svevia, one of our contractors.

It's a Scania R400 LB6x2HSZ equipped with 3-way tipper. The engine is a Scania DC13 400hp Eu5 XPI with EGR. The truck has drum brakes with ABS and Traction Control. The cab has 4-point air suspension and is equipped with a short-stop heater.

The salt spreader is a Falköping high velocity combine spreader, for pre-wetted spreading with salt brine.

The plows are from Mählers. The front plow has a plowing width of 3700 mm and double blades. The side plow has a plowing width of 1700-2850 mm.

More detailed information is available at the booth.

**TEAM EAGLE****STANDS 823 – G**

Team Eagle Ltd. is excited to introduce a new innovative technology to assist the municipal market achieve more efficient results in both summer and winter maintenance in the form of the Eagle CLAAS.

The Eagle CLAAS is an "all-purpose, all season" state-of-the-art chassis designed for winter road maintenance and summer turf maintenance. Blow, plow and sweep snow; cut grass with a 40+ foot mower; and use hundreds of other attachments, including the ones you already have. Features of this unique chassis include a 380 HP Caterpillar engine, 4-wheel drive, 4-wheel steer, stepless automatic transmission, bi-directional instant pivoting cab, and excellent operator comfort.

We have listened to our customers and this new technology provides a convenient, economical alternative to owning many pieces of single-purpose dedicated equipment.

The Eagle CLAAS will be on site so Congress attendees can see it for themselves. Please visit us at Stand U and Stand G to see this incredible multi-functional unit.

Team Eagle Ltd. is Canada's leading supplier of industry best snow and ice control equipment, ARFF firefighting vehicles and GPS-based Safety Management Systems. Team Eagle Ltd. have been servicing and supporting the airfield market for over 30 years with leading technologies and innovative solutions. We are pleased to bring this service, support and technology to the municipal market. [www.team-eagle.ca](http://www.team-eagle.ca)

**VAISALA****STAND 920**

Vaisala is the recognized market leader for national transport weather solutions - working in partnership with road authorities globally.

Our mission is to provide actionable weather information and scalable solutions for road maintenance, traffic operations and traffic management.

Road weather information is vital in delivering timely winter service treatment decisions and maintaining road user safety at the lowest cost.

Vaisala employs the latest technology in its solutions and is pleased to demonstrate our latest developing technologies during the 2010 exhibition, including:

- Guardian - the unique non-invasive measurement solution to cost effectively deliver accurate and specific road weather information
- Decision support systems designed to assist winter maintenance personnel with objective guidance on how to treat highways.
- Roads Observer, our latest Web-based dynamic display software

Vaisala will also be showcasing its innovative, mobile road surface measurement system that will transform the way patrols/inspectors assess road conditions, providing quantifiable road condition data, with table/graph and map displays in real time and archive modes.

Vaisala is built on over 70 years experience and is proud to work with its customers to deliver highway safety, mobility and efficiency, while helping to minimize maintenance-related costs.

**VALLEY BLADES LIMITED****STAND 908**

Valley Blades Limited manufactures replacement wear edges for earth and snow removal equipment, including bulldozers, road graders, loaders, scrapers, excavators and snow plows. These wear edges are manufactured using computer assisted technology to rigid specifications that meet or exceed those set by the original equipment manufacturer.

Valley Blades Limited in Waterloo Ontario has been making snow plow blades for over 40 years. In those 40 years, they have led the way with technological innovations such as heat treated and carbide tipped blades. Recently a new product, PolarFlex, again changes the rules in the blade business. PolarFlex replaces the rigid cutting edge of a standard blade setup with independent 12 inch long carbide tipped steel segments. These segments are mounted inside a system of synthetic rubber components which completely isolate the segments from the plow. The rubber mounted segments are free to move vertically and axially (float), allowing them to conform to the uneven contours of most roads.

Free floating segments have many advantages over standard blades. Cutting edges conform closely to the uneven surface of the road and therefore remove more snow. If more snow is removed, fewer trips with the plow and less salt use can be expected. Also, the 12 inch segments will wear more evenly as they will all be in contact with the road. If a few segments wear prematurely or are damaged by road obstructions, these segments can be replaced individually.

With no metal to metal contact between the truck and the road, vibration is significantly reduced, leading to other benefits. Unlike traditional blades, the unique design of PolarFlex reduces the blades' tendency to chatter or bounce. Eliminating the chatter leads to much longer wear life as the chipping and cracking of the carbide edge is all but eliminated. A reduction in vibration also has a positive effect on driver fatigue, plow damage and truck maintenance.

The design allows for the reuse of all flexible elements. Wear segments and flexible elements can be easily separated to allow recycling.

**VER-MAC INC.****STAND 200**

Ver-Mac Inc. is a family owned company specializing in the development and manufacturing of electronic traffic control equipment, such as changeable message signs, arrow boards and temporary traffic signals.

With our Portable Traffic Management Software, we can offer a fully integrated, multilingual, energy efficient solution for road work problems.

**VIKING-CIVES****STAND 800**

The Viking-Cives group is a manufacturer of truck mounted snow and ice control equipment.

Located in Mt. Forest, Ontario, Harrisville, New York and Morley, Missouri, we have some of the most innovative and leading edge snow plows and sanders.

We are suppliers to the municipal market in Canada and the United States as well as the contractor market in both countries.

Please visit our stand on the exhibition floor and see our live demonstration on the Wednesday of the XIII International Winter Road Congress.

**WINTER® EQUIPMENT COMPANY, INC. STAND 625**

Winter® Equipment Company, Inc. manufactures the PlowGuard® and CurbGuard® products as well as full replacement plow blade systems. The patented Winter® designed guards add life to your steel snow plow blades, and are tested and approved for city, county, and Department of Transportation use. They extend your steel blade life by as much as 400%, and carbide blades by an additional 250% over typical steel and carbide blades alone. Our PlowGuards® and CurbGuards® combined with our full blade systems are designed to reduce your overall operating costs and reduce downtime during blade changes.

For a list of innovative Winter® Equipment products, please see below. We welcome you to stop by our stand for a full hands-on demonstration.

Winter® BlockBuster Plow Blade System • Winter RAZOR Plow Blade System • WinterFlex™ Rubber Clade System • RoadMaxx Carbide Blade System • JOMA Articulating Blade Systems • Common Sense Steel Blade System • Steel Snow Plow Blades • Cast Steel Shoes with Carbide Matrix • Scarifier Blades and replacement tools • Carbide Replacement Tools • Plow Bolts and Nuts • Rubber Blades • Rubber Deflector Material • Unique Winter® Equipment Plow Markers • Non-Corrosive Salt / Sand Spinners • Wiper SHAKER™



**WORLD ROAD ASSOCIATION (PIARC) STAND 14**
**World Road Association**

The World Road Association (AIPCR/PIARC) constitutes a unique, cutting edge international forum in the roads and road transport sector. Since its creation, the Association has played a leading role in bringing together the international road community and enabling its progress, thus supporting economic growth and social well-being. For this reason, the Association was granted consultative status within the United Nations Economic and Social Council in 1970.

PIARC is a non-political and not-for-profit association that welcomes four categories of members: national governments, regional authorities, collective members and individual members. As of the end of 2009, the Association comprised 118 member governments with membership spanning 142 countries throughout six continents. Its main activities are:

**KNOWLEDGE ACQUISITION AND SHARING**

**Technical Committees:** 18 international committees undertaking studies on various topics related to roads and road transport issues, mobilizing more than 800 experts and decision-makers from over fifty countries.

**PIARC National Committees:** Over 30 national committees established in member countries play an important role as a forum for knowledge exchange on a national scale, facilitating dissemination of PIARC products locally as well as promoting PIARC activities.

**International Seminars:** Organized jointly by the host country, technical committees and the PIARC General Secretariat (and often in cooperation with partners of PIARC, international institutions or specialist regional associations), international seminars aim to develop exchanges with developing countries and countries with economies in transition.

**World Congresses:** Every four years PIARC organizes a World Road Congress (Mexico City, September 26-30, 2011) and an International Winter Road Congress (Québec City, 2010 and in Andorra, 2014).

**COMMUNICATION AND DISSEMINATION OF KNOW-HOW**

**Internet:** [www.piarc.org](http://www.piarc.org) is the trilingual Web site of PIARC (English, French, Spanish) providing information on the activities, products and events organized or sponsored by the Association. Information for prospective members is also provided. In particular it comprises the virtual library, the World Interchange Network, a multilingual terminology application and technical dictionary (with over 20 languages) and a global directory of training institutions in the road sector.

**Routes/Roads - the PIARC Magazine:** The Association's quarterly publication (96 pages, 5,500 French-English bilingual copies, distributed in more than 140 countries) provides information on topical road issues in member countries and the road sector.

**Publications:** PIARC disseminates a wide range of documents: technical committee reports, technical dictionaries and lexicons, seminar proceedings, etc. All PIARC publications are available directly online at: <http://publications.piarc.org/en>

The PIARC Electronic Newsletter provides, on a regular basis, the latest information on PIARC activities and products (registration available online on the PIARC Web page).