



## Vendor Presentations Monday September 15, 2008 in Exhibit Hall

Time	Session
1215-1300 Presentation Area 1	<b>Anshen + Allen</b> <b>Sustainable Design for Healthcare Clients</b> <i>Todd Tierney, AIA, Managing Principal, Boston Office, Anshen + Allen</i> Sustainable design has emerged as a fundamental goal for hospital clients to achieve as they embark on new building projects. This presentation will help attendees better define what shapes a successful green healthcare project; with an analysis of the fiscal and usability outcomes of sustainable healthcare projects, a discussion of how the establishment of company-wide sustainability standards guides more informed projects, and examples of recent healthcare projects and some of the green/sustainable elements that have been incorporated into their design. Also the "Green Patient Room" will be discussed in relation to defining evidence-based; sustainable design elements for healthcare clients.
1300-1330 Presentation Area 1	<b>CFMS Consulting Inc.</b> <b>Commissioning Turnover to Facility Operations</b> <i>Mel James and Christopher Aaltonen</i> Prior to turnover to the Owner, the Building Systems have to have been tested and verified by equipment and by system. The commissioning process needs to keep track of each piece of equipment and the various testing conducted on the equipment by the Construction Team. The biggest challenge is the Contractor's testing and commissioning of the systems as a whole. The commissioning process of the systems require the input from the Design Team to ensure that final demonstration of the systems is conducted in accordance to their design and specifications. The commissioning consultant needs to be the "bridge" that allows for the Construction Teams, Design Teams and Owner Teams to be part of the process to ensure the final commissioning of these systems are successful and that no deficient items remain. Owner input and involvement during the final systems commissioning is essential, as their involvement will improve their understanding of the equipment and systems, which in turn will allow for a better training process and improved reaction time should systems or equipment fail during normal operation.
1300-1330 Presentation Area 2	<b>Trane Canada Inc.</b> <b>Optimum Temperature and Humidity Control in Surgery Suites</b> <i>Dan Pollock, Airside System Specialist</i> "Optimum Temperature and Humidity Control in Surgery Suites" can be achieved with various types of equipment. This session will discuss what the options are for dehumidification, why dehumidification has become more important, a comparison of the performance capabilities of various systems and an operating cost comparison of the options. The discussion evaluates the controls, air handlers and chillers to achieve lower temperature and humidity levels in surgery suites. Lower temperature and humidity requirements in surgery suites has led to newer technologies that some people may not have been exposed to before now.
1330-1400 Presentation Area 1	<b>Joint Union Gas/Enbridge Gas Distribution Inc.</b> <b>Utility Energy Conservation Programs and Incentives</b> <i>Scott Edmunds, Union Gas Ltd.</i> <i>Walter Matias, Enbridge Gas Distribution</i> Come listen to the presentation and find out how your organization can benefit from energy efficiency and receive cash incentives from the gas utilities. The speakers will outline, with real life examples, the current natural gas energy conservation programs and incentives that are available to Ontario Healthcare facilities. Programs include: energy audits and feasibility studies, engineering analysis, Monitoring and Targeting and partial capital recovery for retrofit and high efficiency new construction projects. The Ontario natural gas utilities are also responsible for electrical conservation for new construction projects built with energy efficiency in mind. The High Performance New Construction (HPNC) program is a new offering funded through the Ontario Power Authority which is being delivered to the Ontario Healthcare marketplace through the gas utilities (outside of area code 416). Discover how you can participate in these programs by speaking to the representatives of Union Gas and EGD at the booths in the Green Park directly across from the Green Patient Room.
1330-1400 Presentation Area 2	<b>Seawood Solutions &amp; Services Inc.</b> <b>Solving Document Management Problems for Engineering Departments</b> <b>Problem</b> "I have had this recurring nightmare of my staff spending their lives on the elevator going back and forth from their task location to the engineering office" Roger Holliss, St. Mary's General Hospital. Like many facilities in Canada St. Mary's General Hospital has rooms full of engineering-related documentation for their buildings and equipment. Their staff is spread thin throughout the hospital and no longer has the time to be constantly referring back to the engineering office for resource materials. <b>Solution</b> St. Mary's General Hospital has 'gone digital' with all of their engineering documents. This includes operations and maintenance manuals, drawings, service history, warranty information etc. Through a secure web-based interface



staff are able to access the information they need to complete a task from any computer in the hospital. Information is warehoused off-site by a service provider and kept on redundant servers and therefore does not require the intervention of IT personnel within the hospital.

As a result, engineering staff are no longer spending upwards of 15 minutes going back and forth to gather resource materials but rather able to access the information they need from any nurses' station throughout the hospital. This time saved is being reapplied to completing maintenance and preventative maintenance tasks. Thus the nightmares have disappeared.

1400-1430  
Presentation  
Area 1

**Sanuvox Technologies**

**Hospital air disinfection using ultraviolet germicidal irradiation technology:  
Protection against the spread of airborne bio-contaminants**

**Normand Brais, PEng., MA.Sc., PhD**

Ultraviolet Germicidal Irradiation (UVGI) has become widely accepted over the last 25 years as an alternative to chemicals for disinfection of drinking water. UVGI disinfection is a green technology that is harmless to humans, animals and aquatic life and produces no undesired disinfection by-products. It has proven highly effective at permanently destroying virtually all micro-organisms, even those resistant to chlorine. Because we drink daily about two liters of water but breathe several thousands of liters of air, it seems more than appropriate to adapt the same technology to disinfect the indoor air that we live in. This idea has been fostered over the last 10 years not only as a solution to the sick building syndrome but also to prevent a potential pandemic such as Avian Flu from spreading among building occupants. The concept of using the proven UVGI technology to vaccinate buildings against potential outbreaks of microbial or viral infections is getting increased attention from the engineering community. Recognizing the importance of the UVGI technology to improve indoor air quality, the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) has included an engineering guideline on the use of germicidal ultraviolet in ventilation and air conditioning systems in its Handbook edition 2008.

1400-1430  
Presentation  
Area 2

**Blue-Zone Technologies Ltd.**

**Greening Anesthesia: A Canadian Solution**

**Dusanka Filipovic**

95% of anesthetics consumed in Operating Rooms around the world are exhausted into the atmosphere. These toxic gases are up to 3766 times more damaging than carbon dioxide and have been routinely discharged for years. One average-sized medical centre, for example, vents the equivalent of 400 annual car emissions of anesthetic gas *every year*, a practice to date overlooked. Enter Blue-Zone Technologies Ltd, a pre-commercial, proudly Canadian firm offering a unique solution to combat this longstanding, destructive custom. The company's technology is now being successfully trialed in 15 Ontario Hospitals to raise awareness in the community. Blue-Zone's system is convenient, simple and rewarding, and requires now only a small amount of attention to make a notable, albeit long overdue, Canadian-led contribution to the field of Anesthesia.

1530-1600  
Presentation  
Area 1

**Spirax Sarco Canada Limited**

**The New Era in Heat Exchange Technology**

**Shaibaal Roy CEM, Sales Manager, Spirax Sarco Canada Limited**

New innovations in heat technology for domestic hot water and building heat. The features of packaged "plug & play" solutions will be discussed - low cost of ownership, reduced energy use, and much more.

**Essentials of Boiler Efficiency**

**Sharam Pavri, Sales Manager, Forbes Marshall Canada Inc.**

An introduction of the key aspects of ensuring a boiler is kept operating at its peak efficiency. The impact of each parameter will be reviewed, along with the importance of monitoring them.

1530-1600  
Presentation  
Area 2

**Toyota Canada Inc.**

**Combating climate change: What combination of industry, government and individual action can have meaningful results?**

**Bryon Stremler, Manager – Advanced Technology & Powertrain, Toyota Canada Inc.**

The auto industry, all levels of government and Canadian consumers each have a distinct role to play in combatting climate change. The auto industry, for example, is responsible for offering fuel efficient, low emissions vehicles while maintaining environmentally responsible business operations; the government should continue to positively influence consumer / industry behaviour towards greener choices (ie - incentive programs) and actively support new transportation infrastructure; and consumers must commit to responsible personal transportation choices (ie - green vehicle, carpooling, public transportation). The only way we can make meaningful changes for the earth is if we all work together towards a common goal: fighting climate change.