Energy Savings – Building on Past Success

7:30 – 8:30
Registration
Continental Breakfast – Sponsored by Manitoba Hydro

8:00 – 9:50
Exhibits Set-Up

8:30 – 8:40
Opening Remarks:
Craig Doerksen, CHES Manitoba Chapter Chair

Introduce the day, a few points about energy in healthcare and the concept of the “ask it basket”

8:40 – 9:00
Opening Session:
Energy Opportunities Grasped (and to be Grasped) at the University of Manitoba
Michael Ferley, University of Manitoba

Overview of how an institutional facility has approached energy saving opportunities. How has the university:
  a) measured and benchmarked its energy consumption;
  b) assessed and implemented energy saving measures; and
  c) created and sustained energy savings in its facility group and throughout the organization (awareness programs).

9:00 – 9:15
Energy Opportunities Grasped (and to be Grasped) in Healthcare
Davoud Hafezi, Regional Energy Engineer, Winnipeg Regional Health Authority

Overview of how WRHA has approached energy saving opportunities. How has the WRHA:
  a) measured and benchmarked its energy consumption;
  b) assessed and implemented energy saving measures; and
  c) created and sustained energy savings in its facility group and throughout the organization (WRHA energy project list).
9:15 – 9:35  **Opportunities in Healthcare / Energy Tracking I**  
*Cynthia Hyrich*, *Manitoba Hydro*

An overview of the Power Smart Programs offered by Manitoba Hydro will be presented, to help lower energy bills, reduce operating costs and offset the cost of energy efficient equipment upgrades. This will include a snapshot of savings achieved in the health sector and the potential for future energy savings opportunities.

9:35 – 9:45  Ask It Basket

9:45 – 10:30  Refreshment Break in Exhibit Hall – *Sponsored by Class 1 Inc*

9:45 – 14:45  Exhibit Hall Open

10:30 – 10:50  **Portfolio Manager**  
*Green Building Coordination Team Representative, Province of Manitoba*

A basic demonstration will be given on using Energy Star’s Portfolio Manager to manage energy and water consumption. A walkthrough of the program with screenshots will show how to set up facilities/buildings in Portfolio Manager, track utilities, and to run reporting to compare these values against your own baseline, between buildings in your portfolio, and national medians.

10:50 – 11:20  **LED Lighting I – Lighting Technology Road Map**  
*Walter Gretschmann, Manitoba Hydro*

In this presentation, we will be reviewing “Lighting Technology Road Map”. We will walk through the various current technologies and the transition to the “state of the art” LED. Depending on available budgets, short range plans, and long range plans, we have incremental steps to LED – some with instant payback. We will show you how you can start saving energy today.

11:20 – 11:30  Ask It Basket

11:30 – 11:45  **Manitoba Chapter AGM**  
*Craig Doerksen, CHES Manitoba Chapter Chair*

11:45 – 13:00  Lunch in Exhibit Hall – *Sponsored by SMS Engineering Ltd*
13:00 – 13:15  LED Lighting II

**Account Representative, Wesco Distribution Canada**

**Bonnie Hartog, Evolution Electrical Services**

In this presentation we will compare existing technologies to build on LED Lighting I, with product examples and a review. Focus will be on those products that have quick payback, ease of installation, retrofit packages, and time savers from maintenance activities. Winnipeg Regional Health Authority is part of the HealthPRO contract for electrical supplies and obtains assistance with the conduct of lighting audits and product identification.

13:15 – 14:00  Maintaining and Improving Energy Efficiency in Air Handling Units and Roof Top Units

**Jeff Podwysocki, Lowe Mechanical Services**

AHU and RTU move significant amounts of air costing up to $4 per CFM annually. AHU and RTU have many components which need maintenance in order to keep or improve on this efficiency. This session will talk about motor/belt efficiency, controls calibration, coil maintenance and cleaning, refrigeration system operation and gas burner operation. By understanding what is the required maintenance of AHU/RTU is the key to ensuring efficiency of existing systems. This session will also touch on system improvements which can be made to existing AHU/RTU to improve energy efficiency.

14:00 – 14:45  Refreshment Break in Exhibit Hall & Exhibitor Prize Draws

14:45 – 15:05  Case Study: St-Boniface Hospital Chiller Plant Optimization

**Jesse Balfour, Southampton Trane**

**Steve Tiede, St-Boniface General Hospital**

Two of the four chillers at St Boniface Hospital were upgraded in 2015 to ensure compliance with the Ozone Depleting Substances Act and to change the refrigerant from R11 to R123. This change over has had significantly more benefits that just simply replacing a banned refrigerant, but has demonstrated additional energy efficiencies and opportunities for future improvements of the system. This case study will provide an overview of the upgrade, including the projected savings due to increased efficiency, and explore future opportunities for improving the delivery of chilled water at St Boniface Hospital.

15:05 – 15:25  Water Efficiency in Institutional Settings

**Scott Hammond, SMS Engineering Ltd**

Water consumption in healthcare is significant both for process and sanitary consumption. With costs increasing every year, and more than 100% over the past 10 years, saving on water consumption can be both cost effective as well as environmentally friendly. Hospitals use process water to support many operations including boilers, chillers, equipment cooling, medical air or vacuum sealant water, dishwashing, generating high quality/RO water and medical device reprocessing. Water used for patient and staff sanitary and hand-washing also present significant opportunities while having requirements around patient infection control.
15:25 – 15:35  Ask It Basket

15:35 – 15:55  Opportunities in Healthcare / Energy Tracking II  
*Cynthia Hyrich, Manitoba Hydro*

Healthcare sector customer profiles will be presented, which will highlight energy savings and annual bill reductions achieved through the participation in specific Power Smart incentive programs.

15:55 – 16:00  Closing Session  
*Reynold Peters, CHES Manitoba Chapter Chair*